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# HANDBOOK

The logo for Queensland University of Technology (QUT), consisting of the letters "QUT" in white, bold, sans-serif font, set against a solid black square background.

Queensland University of Technology

**Gardens Point campus**

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## General Information

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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. QUT has an enrolment approaching 25,000 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.

## Mission

Within its mission 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 commentary.

## 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 22 members, of whom seven 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 two are elected Convocation members. The Chancellor and Vice-Chancellor are members ex officio. The Chancellor is Chairperson of the Council and the 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.

## 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 and other publications or information about the University may be obtained on request from the Registrar. All correspondence should be addressed to:

The 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.

## Summer School

06 – 10 January	■ Week 1
13 – 17 January	■ Week 2
20 – 24 January	■ Week 3
28 – 31 January	■ Week 4
03 – 07 February	■ Week 5

## First Semester

10 – 14 February	■ Orientation
17 – 21 February	■ Week 1
24 – 28 February	■ Week 2
02 – 06 March	■ Week 3
09 – 13 March	■ Week 4
16 – 20 March	■ Week 5
23 – 27 March	■ Week 6
30 March – 03 April	■ Week 7
06 – 10 April	■ Week 8
13 – 16 April	■ Week 9
21 – 24 April	■ Vacation
27 April – 01 May	■ Week 10
05 – 08 May	■ Week 11
11 – 15 May	■ Week 12
18 – 22 May	■ Week 13
25 – 29 May	■ Week 14
01 June – 17 July	■ Exam preparation, exams, assessment, fieldwork, vacation

## Second Semester

20 – 24 July	■ Week 1
27 – 31 July	■ Week 2
03 – 07 August	■ Week 3
10 – 14 August	■ Week 4
17 – 21 August	■ Week 5
24 – 28 August	■ Week 6
31 August – 04 September	■ Week 7
07 – 11 September	■ Week 8
14 – 18 September	■ Vacation
21 – 25 September	■ Week 9
28 September – 02 October	■ Week 10
05 – 09 October	■ Week 11
12 – 16 October	■ Week 12
19 – 23 October	■ Week 13
26 – 30 October	■ Week 14
02 – 30 November	■ Exam preparation, exams, assessment, fieldwork, vacation

# COUNCIL AND COMMITTEES

## Council

Composition, membership, powers and responsibilities of QUT Council are governed by the *QUT Act*. Procedures for elections, meetings and dealing with business in Council, are specified in the *QUT Statute 2 - Council*.

Council is empowered to establish committees and to delegate power to committees or officers of the University. While Council is ultimately responsible for the management and operation of QUT, it has delegated authority to the chief executive officer, the Vice-Chancellor, and to various senior administrators of QUT for much of the day-to-day management of the University. Council has also established a number of advisory committees, some of which have been authorised to make decisions in respect of prescribed policy and procedural matters.

## Council Membership

### Chancellor (Chairperson)

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

### Vice-Chancellor

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

### Nominees of the Minister for Education

P.D. Beattie, BA LLB *Qld*

K.H. Dredge, BE *Syd.*, BEcon *Qld*

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

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

K.A. Hart, BEdSt *Qld*, DipT *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

A.R. Baxter, BSc DipEd *Qld*

D. Martindale, GDIIndRel *Brisbane*

### Elected non-academic staff members

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

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

**Elected academic staff members**

Associate Professor D. Blackmur, BEcon(Hons) MLitStud PhD *Qld*, MACE  
T.G. Lewis, BSc BEd *Qld*, MSc *Aston*, MSc *Griff*.  
Dr S.V. McLean, DipT *BKTC*, BEdSt *Qld*, MEd PhD *Arizona*

**Elected student members**

S.M. Bellino  
R.H. Doo, DipT *Brisbane*

**Elected Convocation members**

M.A. Muldoon, GDEdAdmin *Mt Gravatt*  
P.J. McGahan, BAppSc (Ind.Chem.) GDBusAdmin *QIT*

**Secretary**

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

**Deputy Vice-Chancellor (attends by invitation)**

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

**Tenure**

Council serves a three-year term.

**Academic Committee****Membership**

Pro-Vice-Chancellor (Academic) *ex officio* as chairperson

Vice-Chancellor *ex officio*

Deputy Vice-Chancellor *ex officio*

Pro-Vice-Chancellor (Research and Advancement) *ex officio*

Registrar *ex officio*

Head of Division of Information Services *ex officio*

Deans of faculty (8) *ex officio*

Director of Academic Staff Development Unit *ex officio*

One academic staff member from each faculty, appointed or elected in the manner prescribed by the relevant faculty academic board.

Two members of the academic staff of the University nominated by the Academic Staff Association.

Chancellor or Council member nominated by the Chancellor.

Two Council members appointed by Council.

Two postgraduate students of the University elected by the postgraduate students of the University.

One undergraduate student from each faculty (8) appointed or elected in the manner determined by the Student Guild Council.

A nominee of the Registrar is secretary.

### **Tenure and frequency of meeting**

*Ex officio* members remain members for as long as they hold the position relevant to their membership.

Council members nominated by Council or the Chancellor hold office for the term of the Council that nominates them (three years).

Elected and other nominated staff members serve a two-year term.

Student Guild members and postgraduate students serve a one-year term.

Academic Committee normally meets every six weeks.

## **Academic Appeals Committee**

### **Membership**

Pro-Vice-Chancellor (Academic) *ex officio* as chairperson

Director of Counselling and Health *ex officio*

Two Council members nominated by Council.

Two members of academic staff from different faculties appointed by Academic Committee.

One member of the Student Guild appointed or elected in the manner determined by the Student Guild Council.

A nominee of the Registrar is secretary.

### **Tenure and frequency of meeting**

*Ex officio* members remain members for as long as they hold the position relevant to their membership.

Council members nominated by Council hold office for the term of the Council which nominates them (three years).

Staff members appointed by Academic Committee serve a two-year term.

The Student Guild member serves a one-year term.

Academic Appeals Committee meets as required.

## **Academic Processes and Rules Committee**

### **Membership**

Chairperson of Academic Committee *ex officio* as chairperson

Director of Student Administration *ex officio*

One academic staff member from each faculty (8), appointed or elected in the manner prescribed by the relevant faculty academic board.

One member of the Student Guild appointed or elected in the manner determined by the Student Guild Council.

A nominee of the Registrar is secretary.

### **Tenure and frequency of meeting**

*Ex officio* members remain members for as long as they hold the position relevant to their membership.

Nominated academic staff members serve a two-year term.

The Student Guild member serves a one-year term.

Academic Processes and Rules Committee meets as required.



## Computing Planning Committee

### Membership

One member of Planning and Resources Committee nominated by Planning and Resources Committee as chairperson.

Head of Division of Information Services *ex officio*

Computing Services Director *ex officio*

Dean of faculty nominated by the Vice-Chancellor's Advisory Committee.

One staff member from each faculty and division nominated by the dean of faculty or head of division.

A nominee of the Registrar is secretary.

### Tenure and frequency of meeting

*Ex officio* members remain members for as long as they hold the position relevant to their membership.

The dean of faculty nominated by the Vice-Chancellor's Advisory Committee serves a two-year term.

The member of Planning and Resources Committee nominated by Planning and Resources Committee holds office for their term of office on the Planning and Resources Committee.

Nominees of deans of faculty/heads of division serve a two-year term.

The Committee normally meets every six weeks.

## Convocation Standing Committee

### Membership

Warden of Convocation *ex officio* as chairperson

Two members of QUT Council elected to Council by and from Convocation *ex officio*.

Five members elected by and from Convocation.

A member of QUT Foundation Alumni who is also a member of Convocation, nominated by the QUT Foundation Alumni Council.

A nominee of QUT Development Office (non-voting).

A nominee of the Registrar is secretary.

### Tenure and frequency of meeting

*Ex officio* members remain members for as long as they hold the position relevant to their membership.

The five elected positions are held for one term, elections being held at the annual general meeting of Convocation. Members may be re-elected.

The nominated member serves a two-year term.

The Convocation Standing Committee normally meets every six weeks.

## Planning and Resources Committee

### Membership

Chancellor or Council member nominated by Chancellor as chairperson

Vice-Chancellor *ex officio*

Deputy Vice-Chancellor *ex officio*

Pro-Vice-Chancellor (Academic) *ex officio*

Pro-Vice-Chancellor (Research and Advancement) *ex officio*

Registrar *ex officio*

Planning and Budget Director *ex officio*  
Finance and Facilities Director *ex officio*  
Head of Division of Information Services *ex officio*  
Five Council members appointed by Council  
One dean of faculty appointed by the Vice-Chancellor's Advisory Committee.  
One member of Academic Committee appointed by Academic Committee.  
One enrolled student appointed or elected in the manner determined by the Student Guild Council.  
A nominee of the Registrar is secretary.

### **Tenure and frequency of meeting**

The Chancellor or nominee remains in the Chair for the term of office of the Chancellor (up to five years).  
*Ex officio* members remain members for as long as they hold the position relevant to their membership.  
Council members appointed by Council hold office for the term of the Council which appoints them.  
Members appointed by the Vice-Chancellor's Advisory Committee and Academic Committee serve a two-year term.  
The Student Guild member serves a one-year term.  
Planning and Resources Committee normally meets every six weeks.

## **Research Management Committee**

### **Membership**

Pro-Vice-Chancellor (Research and Advancement) *ex officio* as chairperson  
Deputy Vice-Chancellor *ex officio*  
Postgraduate Studies Officer *ex officio*  
Research Manager *ex officio*  
One academic staff member with research experience from each faculty, nominated by the faculty academic board.  
Head of Division of Information Services or nominee  
A nominee of the Registrar is secretary.

### **Tenure and frequency of meeting**

*Ex officio* members remain members for as long as they hold the position relevant to their membership.  
Nominated members serve a two-year term.  
Research Management Committee normally meets every six weeks.

## **Staff Committee**

### **Membership**

Four Council members nominated by Council  
Registrar *ex officio*  
Personnel Director *ex officio*  
Equity Coordinator *ex officio*  
Vice-Chancellor or nominee  
Director of Academic Staff Development or nominee  
Dean of faculty nominated by Vice-Chancellor's Advisory Committee

One member elected by and from the academic staff of the University

One member elected by and from the non-academic staff of the University

A nominee of the Registrar is secretary.

Staff Committee elects one of the four Council nominees as chairperson of the Committee.

### **Tenure and frequency of meeting**

*Ex officio* members remain members for as long as they hold the position relevant to their membership.

Council members nominated by Council hold office for the term of the Council which nominates them.

Elected staff and other nominated members serve a two-year term.

Staff Committee normally meets every six weeks.

# STAFF

## Senior Officers of the Administration

### Chancellery

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

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

*Pro-Vice-Chancellor (Research and Advancement):* Professor M.E. Poole, BA BEd Qld, MA(Hons) NE, PhD LaT.

*Pro-Vice-Chancellor (Academic):* Professor J.C. Reid, BSc Adel., MA Hawaii, MA PhD Stan.

*Associate Pro-Vice-Chancellor (Academic):* Professor R.B. Gardiner, MA BSc(Hons) PhD Edin., CPhys, InstP, FAIP

*Director, Academic Staff Development:* Associate Professor P.C. Candy, BA BCom Melb., DipEd Adel., DipContEd NE, MEd Manc., EdD Br.Col.

*Planning and Budget Director:* D. Brown, BBus QIT

*Equity Coordinator:* vacant

*Coordinator, Aboriginal and Torres Strait Islander Unit:* vacant

*Executive Officer:* M. MacColl, BBus QIT

### Administrative Services Division

*Registrar – Head, Administrative Services:* B.S. Waters, BCom Qld, AAUQ (Prov)

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

*Finance and Facilities Director:* J.A. Nelson, BCom Qld, AAUQ, FCPA

*Student Administration Director:* A.M. Brownhall, BA BEcon Qld

*Personnel Director:* M.J. Toohey, BBus QIT

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

*Campus Registrar (Gardens Point):* G.P. Abernethy, BA MPubAdmin Qld, GDBusAdmin QIT

*Campus Registrar (Kelvin Grove):* D.W. Spann, BA Qld

*Campus Registrar (Kedron Park):* N.J. Jackson, BA Darling Downs

*Campus Registrar (Carseldine):* E.D. Harding, BA Qld

*Campus Registrar (Sunshine Coast):* C.R. Wheeler, BA BEd DPE Qld, MEdAdmin NE, MACE

*Publications Manager:* I.A. Wynne

*Secretariat Manager:* T.R. Walters, BA Griff.

### Research and Advancement Division

*Pro-Vice-Chancellor – Head, Research and Advancement Division:*

Professor M. Poole, BA BEd Qld, MA(Hons) NE, PhD LaT.

*Educational Services Manager:* D. Stent, QDA BA Qld, MAgSt

*Commercial Services Manager:* C. Melvin, BBus QIT, MEA Qld

*Research Manager:* L. Grigg, BA(Hons) PhD Qld

*Public Affairs Manager:* P.H. Hinton, BA Qld

*Development Manager:* R. Miller, BA(Hons) MA Qld, AFAIM

## **Information Services Division**

*Director of Information Services:* T. Cochrane, BA *Qld*, MPhil *Griff.*, AALIA

*University Librarian:* G.M. Austen, BA(Hons) *Melb.*, GDLib *Canb.*, AALIA

*Computer Services Director:* J. Noad, MSc *Qld*, MACS

*Audiovisual Services Director:* G.A. Roberts, BA DipEd *NSW*, MScEd

*EducSpecialist Indiana*

*Educational Television (ETV) Manager:* R.J. Care-Wickham

*External Studies Manager:* B.R. Scriven, BSc MEd *Syd.*, DipEd *NE*, MEdAdmin *Qld*,

*ASIA, MACE*

*Computer-Based Education Manager:* H.D. Ellis, BSc(Hons) PhD *Durh.*, MAIP

## **Academic Staff**

### **Faculty of Arts**

*Dean:* Professor P.R. Wilson, BA MA(Hons) *Cant.*, PhD *Qld*, MANZSocCrim,  
ExMIntSocAss, MAMerSocCrim

*Associate Dean:* Associate Professor G.E. Embelton, BA BD MEdSt *Qld*,

PhD *Mich.State* DipRE MCD, MAPsS

*Faculty Administration Officer:* J.A. Stephenson, BA MBA *Qld*, AIMM, ASA

### **Academy of the Arts**

*Head of School (Acting):* P.D. Lavery, BA DipEd *Qld*, DipD *Brist.*, MLitt *NE*

### **Dance**

*Senior Lecturer:* S.P. Street, MA *Lond.*, 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, ADCommRec *Nth Bris.*, BA(Dance)

A.A. Geeves, BA DipTech *Stockholm*, MA *NY*, DTR

J. Tally, BFA(Modern Dance) *Utah*

### **Drama**

*Senior Lecturers:*

G.J. Wiltshire, BEd RBTC(Dip) ADB(Ed) MA *Qld*, LRAM, AMusA

R.W. Wissler, BA(Hons) PhD *Qld*

*Lecturers:*

D.G. Batchelor, BA(Hons) *Qld*

D.M. Eden, BA *Qld*

J.A. Hamilton, DipT BEd *Kelvin Grove*, MA *Qld*

B.C. Haseman, DipT *Kelvin Grove*, BA *Qld*, AdvDepS & D *Lond.*, ASDA, LSDA,

ATCL, LTCL, FTCL

C. Hoepper, BA DipEd *Qld*

D.K. McCrudden, DipStageProd *NIDA*

J. McLean Grant, DipT *Kelvin Grove*, BA *Qld*, LSDA

M.L. Radvan, BA(Hons) DipEd *Syd.*, DipDirecting *NIDA*

I. Thomson, BA *Qld*, DipActing *RADA, Lond.*, LTCL

*Senior Tutors:*

S.J. Capelin, BEcon *Qld*, GDT(Primary)

A.K. Kerwitz, BA *Qld*  
J. Maclean  
S. Mee, DipEd *Mt Gravatt*  
G. Seffrin, ADAT *Kelvin Grove*, BA(Hons) *Qld*

## **Music**

### *Principal Lecturers:*

M.S. Collins, BA(Hons), MA *Durh.*, PG CertEd *Lond.*, PhD *Leeds*

A.A. Thomas, BMus BEd MMus *Melb.*, MACE

*Senior Lecturer:* S.H. Faulkner, BA BEd *Qld*, LTCL, AMusA

### *Lecturers:*

H.B. Axford, BMus *Melb.*

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

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

B.J. Hoesman, CertEd *Kelvin Grove*

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

A.L. Morris, BMus GDMus *QCM*, GDTeach *Brisbane*

B.A. Vergara, MMus *Melb.*

M.R. Whelan, ADPerfArts BA(Drama)

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

*Senior Tutor:* B. Millard, BMus *QCM*, LMA, LTCL

## **Visual Arts**

*Principal Lecturer:* J.A. Airo-Farulla, BA *Kala.*, MA PhD *Wash.*

### *Senior Lecturers:*

B.J. Dean, NDD ATD *Birm.*

D.M. Hawke, DipArt(Ed) *Syd.*, BEd MA *Calg.*, PhD *Alta*

### *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*

H. Fuller

V.L. Garnons-Williams, BEd(Sec) MEd(Art) *Br.Col.*, GDProfArt *Syd.CAE*

I.G. Hutson, DipEd *Auckland STC*, DipFineArts(Hons) *Cant.*, BA *Open*

M.J. Kelly, DipT *Kelvin Grove*, GDVisArt *QCA*, GDAsian Studies *Armidale*

D. Mafe, DipPainting GDPainting *Royal Academy, Lond.*

W.J. Palmer, CertAppA DFA *QCA*

E. Ruinard, BA(Hons) *Qld*, MA(Hons) *Paris*

*Senior Tutor:* J.M. Leo, CertT(SecArt) *Kelvin Grove*, DFA BFA *QCA*,

*Tutor:* J. Barker, BA(Fine Art) *Curtin*, BSc *Qld*

## **School of Humanities**

*Head of School (Acting):* W.R. Hindsley, BA MA *Calif.*, PhD *Qu.*

### *Senior Lecturers:*

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

P.J. Isaacs, BTh *Urban*, BD *Qld*, DipEd *Lond.*, MA PhD *Exe.*

R.H. Leach, BA *Qld*, LittB MSocSc(Hons) *NE*

### *Lecturers:*

L.M. Finch, BSc *Griff.*, MA(Qual) *Qld*  
J.A. Grixti, MA *Oxf.*, PhD *Brist.*  
C.S. Higgins, BA MEd MLitSt *Qld*  
P.D. Hutton, BA BEd MA *Qld*  
D.R. Massey, BA DipPsych *Qld*, MABS  
V. Muller, BA(Hons) DipEd MLitSt *Qld*  
S.M. Pearce, BA *Adel.*, MLitt PhD *James Cook*  
A.M. Quanchi, TPTC *Frankston*, BA(Hons) MA *Monash*  
M.A. Welch, BA BEd *Qld*  
A.J. Williamson-Fien, BA BEcon *Qld*, MA *Griff.*

### **School of Social Science**

*Head of School (Acting):* R.E. Hicks, BA *NE*, MA DLittPhil *SA*, PGCE(Ed) *Lond.*,

ThC(IVF *Aust*), FAPsS, FBPsS, FAIM, MQCA

*Associate Professor:* H. Guille, BSc(Hons) *R'dg*, PhD *Griff.*

### *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.*  
D. Axten, BA BEd MEdSt *Qld*, LSDA, FTCL  
P.D. Byde, BA *NZ*, BEd(Hons) *Canb.*, MEdSt *Qld*  
L.I. Chenoweth, BSocWk *Qld*  
P.R. Crane, BA *NSW*, GDOOutdoorEd *Brisbane*, MAdmin *Griff.*  
R.J. Daniels, BSocWk BEcon MSPD *Qld*  
R.M. Frey, BA MEd *HadingUS*, MAPrelim(HonsPsych) *Syd.*  
K.M. Gow, BA(Hons) *Qld*  
A.M. Harper, BSocWk *Qld*  
C. Kynaston, BA(Hons) *Leic.*  
R.D. Lowe, BA(Hons) MPsych *NSW*, MAPsS  
B.A. Lynch, DipT(SpSec) GDSpecEd *Mt Gravatt*, BEdSt *Qld*  
C. McDonald, BSocSt *Syd.*, MSocWkAdmin & Planning *Qld*  
W.A. Patton, BEd *James Cook*, BA(Hons) PhD *Qld*  
J.L. Smith, BSocWk *Qld*  
G.J. Strachan, BA(Hons) DipEd *Qld*  
R.D. Waters, BAppSc *QIT*, BD *Qld*, CPE *NSWC*  
M. Winter, BA *NSW*, GDMgt *Capricornia*  
M.T. Zlobicki, BBus *QIT*, MSPD PhD *Qld*

### *Principal Tutors:*

D.N. Baker, DipPT *Syd.TC*, BA(Hons) MPsych *NSW*, MAPsS  
M.P. Bibb, BA(Hons) *Qld*  
C.M. Venardos, BA(Hons) *Qld*, DipT

## **Faculty of Built Environment and Engineering**

*Dean of Faculty:* Professor H. J. B. Corderoy – BScTech(Merit) MEngSc PhD *NSW*,  
Barrister of the Supreme Court, *NSW*, CPEng, FIEAust

*University Research Professor of Design:* Professor T. F. W. M. Heath, MArch  
MBldgSc *Syd.*, LFRAIA, MDIA, FRSA

*BCC Chair in Urban Studies:* Professor R. J. Stimson, LittB BA *NE*, PhD *Flin.*

*NOTE Coordinators:* W. Mathieson, ADMechEng *QIT*, MAIEA, MID,  
StudIEAust

D. Messer, BSc(Geology)

*Faculty Administration Officer:* J. Mannion, BA *Qld*, GDCommComp *QIT*

### **Charles Fulton School of Architecture, Interior and Industrial Design**

*Head of School:* Professor B. P. Lim, BArch DipTCP PhD *Syd.*, FRAIA, MRIBA,  
MSIA, MSIP Architect

*Associate Professors:* V. Popovic, GradEngArch *Belgrade*, MFA (Industrial Design)  
*IU*, FDIA SPID-YU

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

*Senior Lecturers:*

J. De Vries, DipArch *AcadArch Amst.*

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

P. Hedley, BArch DipUrbSt DipED *Ill.*

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

J. C. Woolley, BArch *Natal*, MArch *Witw.*, GDCompSc, MIA SA

*Lecturers:*

J. Franz, BAppSc(Blt Envt) *QIT*, DipT *Brisbane*, MEdSt *Qld*, MDIA

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

J. E. Hutchinson, BArch MURP *Qld*

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

A. Scott, BAppSc GDIndDes *QIT*

J. R. Stewart, BArch *Qld*, DipTown&CountPlan, CHSEkistics *Athens T.O.*,  
MArch *Calif., Berkeley*

K. Stewart, DipArch *K'ton*, GDIndDes *QIT*, MSc *Griff.*

B. Williamson, BArch(Hons) *Qld*, MSc *C'nell*

*Senior Tutor:* D.S. Mengel, BAppSc *QIT*

### **School of Civil Engineering**

*Head of School:* Professor K. B. Wallace, DipCE *RMIT*, BE MEngSc PhD *Melb.*,  
MIEAust, MSAGS, MASEE

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

R. J. Troutbeck, BE MEngSc *Melb.*, PhD *Qld*, MIEAust

*Senior Lecturers:*

D. L. Beal, BE *Qld*, MEngSc *NSW*, MSc DIC *Lond.*, MIEAust

R. G. Black, BE MEngSc *Qld*, MIEAust, MAWWA

B. T. Boyce, ME *Cant.*, MSc DIC *Lond.*, MIEAust, MIPENZ, CEng, MICE, MAGS

C. R. Button, BE MURb&RegPlg *Qld*, LGE, MIEAust

R. J. Heywood, BE(Hons) MEngSc *Qld*, MIEAust, MAISC

J. W. Liston, ASTC(Mech) *NSW*, MEngSc *WAust.*, MIEAust, AFIM, MICD

T. L. Piggott, BE *NSW*, MSc *Dub.*, MIEAust, MAWWA, RPEQ

B. Rigden, BSc(Eng) *S'ton*, MIEAust, FIWEM, MAWWA

*Lecturers:*

F. Bullen, BSc(Met) ME *N'cle(NSW)*, PhD *Qld*, MIEAust, MSPE(PNG), MAGS

L. Ferreira, MSc PhD, MIEAust

W. C. Hodgson, ASTC(Civil), MIEAust, MCIA

G. Jenkins, CertCivilEng BE(Hons) PhD, MIEAust

M. Mahendran, BScEng(Hons) PhD, MIEAust, CPEng

D. Thambiratnam, BSc(Hons) *Ceyl.*, MSc PhD *Manit.*, MICE, MIEAust, ASCE



P. R. Williams, BTech GDEnvEng MEng *QIT*, LGE, MIEAust, MAWWA, AMLGEA  
H. Wong, DipCE MSc *HK*, MIEAust, CEng, MIStructE, MASCE, MAISC, RPEQ  
L. S. Wong, BE *NSW*, MEng *Malaya*, MIEAust  
Y. Yang, BE *China*, MIEAust

*Tutor:*

J. Jambunathan, BSc(Hons) *Liv.*, MSc *Lough.*, MRAIPR

*Laboratory Manager:*

J. Eaton, ElecMechCertCivilEng

*Senior Technicians:*

D. Corbett, BA FullTechCertProdEng PGCE

D. Gittins, GradIERE, MIQA

T. Laimer, CertLabTech CertChem *QIT*

G. Rasmussen, CertCivilEng *QIT*

P. Watson, BSc(Hons) *ANU*

**Physical Infrastructure Centre**

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

*Deputy Director:* R. J. Troutbeck, BE MEngSc *Melb.*, PhD *Qld*, MIEAust

**School of Construction Management**

*Head of School:* Professor D. Scott, BSc(Eng) PhD *Nott.*, FIEAust, FAIB, MICE, CEng

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

*Senior Lecturers:*

T. P. Boyd, MSc(BldgMgt) *Natal*, AVLE(Econ), SCV, MPMINZ

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

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

*Lecturers:*

L. Coyte, DipBuild *QIT*

K. D. Hampson, BEng(Hons) GDBusAdmin *QIT*, MBA, LGE, MIEAust, CPEng, RPEQ, AIMM

J. F. Hornibrook, DipBuild *CTC*, GDProjectMgt, FAIB

B. M. Woolnough, FRAIA, RegArch

L. A. Armitage, DipSurv *Oxf.PolyTech*, MEnvPlanning *Macq.*, FRICS, FVLE(Econ), AVLE(Val)

**School of Electrical and Electronic Systems Engineering**

*Head of School:* Professor M. P. Moody, BE(Hons) MEngSc BA PhD *Qld*, FIEAust, FIREE, SMIEEE, MACE, MACES, MAES, RPEQ, CPEng

*Professor:* Professor B. Boashash, BE ME PhD *France*

*Visiting Professors:*

Adjunct Professor S. M. P. Chin, BE(Hons) MEngSc PhD *UK*, CEng, FIEAust, FIEE, FIREE, SMIEEE, FIES, FIMC, SMICS

Associate Professor C. Tzuang, BS *Taiwan*, MS *UCLA*, PhD *Texas*, MIEEE, MI Chinese Engineers, PhiTauPhi member

*Senior Lecturers:*

D. Abeyasekere, BSc *Ceyl.*, MSc(Hons) PhD *Melb.*, SMIEEE, CEng

D. Birtwhistle, BTech MSc *Brad.*, MIEAust, MIEE, CPEng

P. K. Boddington, MSc *Warw.*, MIEEE

J. Edwards, MSc *Bath*, DipCompSc *Qld*, MIEE, MIEEE, CEng

J. S. Lyall, BE BSc ME *Qld*, MIEAust, MIEEEE, CPEng  
 S. Sridharan, BSc(Eng) *Ceyl.*, MSc *Manc.*, PhD *NSW*, MIEAust, CEng, MIEE,  
 SMIEEEE, CPEng  
 P. A. Wilson, BSc(Hons) *Salf.*, MEng *QIT*, SMIREE, MIEEEE, CPEng  
**Lecturers:**

G. N. Beikoff, BSc *Qld*, ADEE *Ed. Dept*, MIEAust, MACS, CPEng  
 W. W. Boles, BSc *Egypt*, MSc PhD *Pitt.*, IEEE  
 T. W. Cooper, PolyDip *Lond.*, MTech *Brun.*, CEng, MIEE  
 K. R. Curwen, MA *Camb.*, GDAutoControl *QIT*, MIEAust, RPEQ, CPEng  
 K. Hoffman, BSc(Hons) MSc *Cape T.*, MSAIEE, PrEng(SA)  
 K. Khouzam, MSc *Egypt*, PhD *Cleveland*, IEEE  
 P. J. O'Shea, BE(Hons) DipEd *Qld*  
 E. W. Palmer, BSc BE(Hons) *Qld*, GDTeach *Kelvin Grove*, MIEEEE  
 R. Prandolini, BEng(Hons) *QIT*, MIREE, MIEEEE, CEng  
 J. R. Ryan, BE(Hons) MEngSc *Qld*, MIEAust, MIEEEE, MANZSES, CPEng  
 T. G. Tang, BE(Hons) PhD *Qld*, MIEAust, MIEEEE, CPEng  
 H. T. Tsui, BSc *HK*, MSc *Manc.*, PhD *Birm.*, CEng, MIEEEE, MIEE  
 I. K. Vosper, ADElecEng, MEngSc *Qld*, GDBusAdmin *QIT*, MIEAust,  
 MIEEEE, CPEng  
 G. J. Winstanley, BEng GDAutoControl DipCompSc *Qld*, SMIREE, MIEEEE,  
 CEng

**Senior Instructor:** M. F. McManus, CertElecEng *Darling Downs*

**Tutors:**

C. C. Chan, BSc(Hons) *Leeds*, MSc *Texas*, CorpMIEAust  
 M. Dawson, BEng(Hons) MIEEEE  
 R. Pietzel, BE *Qld*, MIEEEE (Computer Society)

**Senior Technologists:**

B. Chadwick, BEng(Hons) *QIT*  
 R. Lunnon, BEng(Hons) *QIT*, (seconded to Product and Process Development Centre)  
 K. McIvor, BEng *QIT*

**Senior Technicians:**

P. Alick, ADElecEng *QIT*  
 J. Lewis, AEng *Oregon*  
 P. B. McMahon, ADElecEng *USQ*

## **School of Mechanical and Manufacturing Engineering**

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

**MIM Chair in Maintenance Engineering and Director, Terotechnology**

**Centre:** Professor D. J. Sherwin, MSc *Birm.*, PhD *Lough.*, CEng, MIMechE,  
 MIPlantE, FRoyStatSoc

**Associate Professor and Deputy Director, Terotechnology Centre:** W. Scott, MSc  
 PhD *Leeds*, CEng, FIEAust, MIMechE, MSTLE

**Principal Lecturers:**

J. W. Laracy, BE ME MEngSt *Qld*, FIEAust, MAIRAH, MASSCT, MASHRAE,  
 MIIR, FAIE

**Senior Lecturers:**

A. G. Crooks, ARMIT(Metall) MSc *Qld*, CEng, MIEAust, FIW, MIMMA  
 D. J. Hargreaves, BEng(Mech) *QIT*, MSc(Distinction) PhD *Leeds*, MIEAust,  
 AMIMechE, MASSCT, MSTLE  
 J. M. Kelly, ADME DipM&EEng MEngSc *NSW*, MIEAust  
 R. W. Nicol, BE(Hons) MEngSt *Qld*, MIEAust

D. J. Nuske, DipM&EEng MSc PhD *Manc.*, RPEQ  
C. C. Tan, BSc(Hons) PhD *Lond.*, CEMIMEchE, MIEAust, MIEM

**Lecturers:**

D. T. Baddeley, BSc *Qld*, MSc *Cran.IT*, ARMIT(Metall), CEng, MIEAust, AIMMA  
G. Chadwick, BSc *Preston*, MSc PhD *Cran.IT*  
A. deJong, DipMechEng DipM&EEng MEng *QIT*, MIEAust, SrMemSME  
R. E. Hall, CertMechEng BSc(Merit) *NSW*, ME *W'gong*, MIEAust  
R. Mahalinga Iyer, BScEng(Hons) *S.Lanka*, GDCompSc,  
PhD *N'cle(NSW)*, MIEAust, ISES  
G. M. Kassay, HNC(MechEng) BTech *QIT*, CertEd *Leeds*  
R. K. Kirkcaldie, BE(Met) MEngSc *Qld*, MAustIMM, MIMMA  
B. D. Mathiesen, ADMechEng *QIT*, MIEAust  
G. Y. O'Sachy, ADMechEng MEngSc *N'cle(NSW)*, GDBusAdmin *QIT*, MIEAust,  
RFD, CPEng  
P. R. Ridley, BE(Hons) *Qld*, MEngSc *Melb.*  
K. Travers, HND, BTech *QIT*, BSc *Qld*, MIEAust, GradIMechE, MAWI  
G. B. Yu, BSc *Taiwan*, MSc PhD *Birm.*, TFRA, MSME

**Technologist:**

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

**Tutor:**

B. Fiddes, DipMechEng *QIT*, MIEAust

**Senior Instructors:**

N. F. Munro, CertMechEng *QIT*, MAIEA

K. Palmer, CertIndMetall *STC*, TEng, AMIM, MAIMM

**School of Planning and Landscape Architecture**

**Head of School:** Associate Professor P. Heywood, BA(Hons) *Oxf.*, DipTP *Manc.*,  
MRTPI, MRAPI

**Senior Lecturers:**

C. Bull, MLArch *Melb.*, DrDes *Harv.*, FAILA, MAIH  
B. J. Hudson, BA(Hons), MCD *Liv.*, PhD *HK*, MRTPI, MRAPI  
J. R. Minnery, BSc(Hons) *Cant.*, DipTP *Witw.*, PCE *Lond.*, MPubAdmin PhD *Qld*,  
MRAPI, MRAIPA  
G. Williams, BArch *Qld*, DipLD *N'cle(UK)*, FAILA, ARAIA, MRAIPR,

**Lecturers:**

J. Brown, BA(Hons) MRegSc *Qld*, GDLib *Riverina*  
S. F. Buzer, BA(Hons) *Qld*  
C. Cameron, BFA *OWU*, MEnvSc *Miami*, GDURb&RegPlan *QIT*  
J. Davie, BSc(Hons) PhD *Qld*, MAI Biol  
D. Low-Choy, MBE, BA *Qld*, GDURb&RegPlan *QIT*, MRAPI, MEIA, MAIC  
J. Mongard, BAppSc GDLandArch *QIT*  
D. Poulton, GDLandArch *QIT*

**School of Surveying**

**Head of School:** Professor K. Kubik, BSc *T.H.Delft*, DipEng DrTechn  
*TechUniVienna*, MASPRS, MISAust, MAIC

**Deputy Head of School:** B. J. Hannigan, BA *Macq.*, MSurvMap *Qld*, LS(*Qld* & *NSW*),  
FISAust, MAIC, MAIMS

**Senior Lecturers:**

J. T. C. Glasscock, BSURV MURbSt *Qld*, MSc *Oxf.*, DipT&CP *QIT*, LS(*Qld*), FISAust,  
MAIC  
I. A. McGhie, BSURV BEcon *Qld*, LS(*Qld*), MISAust

*Lecturers:*

S. Buzer, BA(Hons) *Qld*  
B. F. Chapman, CertCartog *QIT*, BAppSc(Surv), AMAIC  
J. S. Cook, BSurv BA BEcon *Qld*, LS(Qld), MISAust  
M. W. Harris, MSurv *Qld*, MISAust, MAIMS  
S. L. Humphries, BAppSc(Surv) CertSurvTech, GDSurvPrac *QIT*, LS (Qld), MISAust, MIEMSAust  
K. Jones, MSurv *Qld*, LS(Qld), MISAust, MISPRS  
B. R. Pathe, GDEComp *Bendigo*, LS(Vic), MISAust

## **Faculty of Business**

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

### **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

*Professor in Accounting:* S. Holmes, BCom *N'cle(NSW)*, PhD *ANU*

*Associate Professor:* P. Best, BCom(Hons) *Qld*, MEng *N'cle(NSW)*, FCPA, MACS

*Senior Lecturers:*

A.M. Mirza, MCom *Qld*, FASA, CPA, ASIA

R. Radich, BBus *QIT*, MFM *Qld*, ACA

J. Psaros, MCom *N'cle(NSW)*

C.M. Ryan, BCom DipEd MFM *Qld*, CPA

J.W. Sweeting, BEc *Monash*, MEc *NE*, AASA, CPA

J.M. Whitta, BCom *NZ*, LLB *Cant.*, DipEdAdmin *Well.*, ACA (NZ), CMA (NZ), ACIS

A.V. Wolff, BCom BEcon *Qld*, MSc *Kansas*, AIMM, AASA, AAUQ, CPA

*Lecturers:*

S. Buckby, BBus *QIT*

J. Campbell, BCom(Hons) MFM *Qld*, CPA

K.L. Dunstan, BCom *Qld*, DipMgt *Capricornia*, AASA

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

D. Gadenne, BBus *QIT*, DipEd *Vic.*, MFM *Qld*, FCPA

R. Kent, BCom(Hons) MFM *Qld*

C. Lambert, BBus *Darling Downs*, DipFinMgt *NE*, MBA *Qld*, AASA, CPA

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

L. Munro, BBus *QIT*, AASA

C. O'Leary, BCom(Hons) *Cork*, ACA

M. Percy, CertT *Kelvin Grove*, BEcon BCom MFM *Qld*, ASA

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

S. Taylor, BBus *QIT*, AASA, AIMM

S. Yuen, GDEd MSc *Sur.*, MBA *Oklahoma*, FCCA, AGS

*Senior Tutor:* M. McCarthy, BBus *QIT*, MBus(Accty)

*Tutor:* A. Gardiner, BBus *QIT*

### **School of Accounting Legal Studies**

*Head of School:* Vacant

*Associate Professor:* P. Little, LLB LLM *Qld*

*Senior Lecturers:*

R.W. Humphreys, BCom *Qld*, AAUQ, FCPA, FTIA

N. Katter, LLB LLM *Qld*

M. McGregor-Lowndes, BA LLB *Qld*

*Lecturers:*

C. Anderson, BCom(Hons), LLB(Hons), DipEd *Qld*, ASA

F. Hannah, BEcon, DipEd, BCom *Qld*

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

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

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

H. Park, BBus *QIT*, ACA

*Senior Tutors:*

J. Hadaway, BCom *Qld*

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

D. Morrison, BCom LLB *Qld*

### **School of Communication and Organisational Studies**

*Head of School:* Vacant

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

*Senior Lecturers:*

P.H. Crowe, BS *Syr.*, MA *Iowa*, PhD *Suny-A*

R.A. Gibson, BEcon MSocSc *Qld*

G.N. Hearn, BSc(Hons) PhD *Qld*

P.M. Neilsen, BA(Hons) MA PhD *Qld*

R. Petelin, BA *Qld*, ASDA

E. Saragossi, BA(Hons) PhD *Qld*, ATCL, AIMM, MAPsS

*Lecturers:*

J.N. Chapman, BA DipPsych *Qld*

J. Evans, BA DipEd *Qld*, ASDA

E.K. Hallt, BBus(Mgt) *QIT*, MBA *Qld*

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

E.J.C. Locke, BCom BEd MEDSt *Qld*, GDCompEd *Brisbane*, AAUQ

K. Madden, BBus(Corn) *QIT*

P.M. McCarthy, BA *Qld*, LSDA(Board), FTCL *Lond.*

P.M. McLean, BA DipEd MLitSt *Qld*

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

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

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

K. Tully, DipSSt *Lond.*, BA *Open*, MA *Essex*

*Senior Tutor:* C. Hatcher, BA *Qld*, BEd *Brisbane*, ASDA (Board), LTCL *Lond.*

### **School of Economics and Public Policy**

*Head of School:* Vacant

*Associate Professors:*

P.A. Cassidy, QDA *QAC*, MAgSc PhD *Qld*

T.J.C. Robinson, BEcon(Hons) PhD *Qld*

### **Senior Lecturers:**

P.G.H. Carroll, BA(Hons) MSc *S' ton*  
G.K. Chittick, BEcon *NE*, BA *Macq.*, DREconSc *Amst.*  
D.K. Conroy, BA MPubAdmin *Qld*  
J.L. Forrest, BEcon MPubAdmin *Qld*  
O. Kurer, DipBusStud *HWVurich*, MBA *Chic.*, MSc(Econ) PhD *Lond.*  
M.J. Quayle, BEcon MPIEcon PhD *Qld*  
A.W. Williams, BCom DipEd *NSW*, MEcon *Syd.*, PhD *Qld*, FCIT

### **Lecturers:**

M.A. Cox, BEcon DipEd *Syd.*  
T.V. Cronk, BA(Hons) *Qld*, MA *Lond.*, GDBusAdmin *QIT*  
K.J. Donohue, BEcon MEconSt *Qld*, MA *Essex*  
E.J. Duhs, BSc BA AEd MEcon *Qld*, ASIA  
P.J. Flynn, BA BEcon(Hons) MEconSt *Qld*  
A.M. Gillingham, BEcon(Hons) BSc DipEd *Qld*  
H. Higgs, BEcon(Hons) DipEd MEconSt *Qld*  
J. James, MEcon *Qld*  
E. McCann, BSc(Econ) *Qld*, GCertEd *Leeds*, MEc *NE*  
C. McCoy, BSc(Ed) *Ill.*, MA *Colgate*, PhD *Boston*  
M. McGovern, BSc DipEd BEcon MRegSc *Qld*  
J. McMillan, BA(Hons) *Qld*  
C.H. Williams, BA(Hons) *Stir.*, MPhil(Econ) *Oxf.*  
**Principal Tutor:** P.G. Morgan, BA *Griff.*

### **School of Finance**

**Head of School:** Professor S. Thompson, BCom(Hons) MFM PhD *Qld*, FCPA, FCIM, ACA

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

### **Senior Lecturers:**

L. Gallagher, CertT *Kelvin Grove*, BCom MFM *Qld*, CPA  
P. Green, BCom BSc MInfSys *Qld*, CPA, MACS  
A. Ireland, BBus GDMgt *Capricornia*, MBA *Qld*, AASA, CPA, ACIP  
I. Nott, BCom MBA *Qld*, AAUQ, FCPA, AAIB  
N. Sorby-Adams, BBus *Darling Downs*, MBA *Qld*, AASA, CPA, FTIA

### **Lecturers:**

M. Christensen, BBus *Brisbane*, MFM *Qld*, CPA, ASIA  
R. Copp, BCom(Hons) BEcon LLB *Qld*  
D. Delaney, BBus *QIT*, ACA  
G. De Jager, BSc *NE*, MBA *NSW*, MACS  
C.N. Gaunt, BBus *Brisbane*, MFM *Qld*, CPA, ASA  
P. Gray, BCom *Qld*  
S. Lazzarini, BCom (Hons) LLB(Hons) *Qld*  
P. Whelan, BCom (Hons) *Qld*  
**Tutor:** K. Wyllie, BCom *N' cle(NSW)*

### **School of Human Resource Management and Labour Relations**

**Head of School:** Associate Professor D.J. Blackmur, BEcon(Hons) MLitSt PhD *Qld*, MACE

### **Senior Lecturers:**

B.L. Delahaye, BBus *QIT*, MBA *Qld*, AAIM, MIPMA, MAITD  
B.J. Smith, BEcon(Hons) MEcon *Qld*, AITD

### *Lecturers:*

J.M. Crittall, BEcon(Hons) *Qld*  
G.P. Davidson, BSc(Hons) BD *Qld*, PhD CPU, DPS Birm., Cert Ec Geneva,  
MAPsS, AIMM, MIPMA, FAIOD  
C. Dickenson, BBus(Mgt) *QIT*  
W.A. Edwards, BCom(Hons) *Qld*  
D.A. Lambert, DipSS *Oxf.*, BSc Wales, MSc(Econ) *Lond.*, PhD ANU  
P.T. Mansour-Nahra, BA PhD *N'cle*, STL  
R.B. Sappey, BEc(Hons) *Syd.*, MSc(Econ) *Lond.*  
L. Sargent, BA(Psych) *Qld*  
G.N. Southey, BBus DipPsych(Hons) MAppPsych *Qld*  
P.J. Sutcliffe, BEcon(Hons) MEcon(Hons) *Syd.*

### **School of Media and Journalism**

*Head of School:* Professor B.M. Molloy, BA DipEd MA *Qld*, MLitt NE, PhD Griff.  
*Associate Professor:* L.A. Granato, BA Central Missouri State, MA PhD Southern Ill.  
*Adjunct Professor:* Vacant

#### *Senior Lecturers:*

L. Bowman, BA *Qld*  
G. Bruce, BA (Hons) BEd *Qld*, MA PhD NY  
S. Cunningham, BA(Hons) *Qld*, MA McGill, PhD Griff.  
E. Hodge, BA (Hons) NE, BA *Syd.*, MSc PhD Griff.  
R.R.L. Williams, BEd *Qld*, MA Loyola, SMPTE, PDGA

#### *Lecturers:*

S. Frost, CertT Mt Gravatt, ADArt QCA, DipCin AFTRS, BA *Qld*  
C. Hippocrates, BA *Qld*  
G. MacLennan, BA DipEd Belf., MA Essex  
M. Redmond, DipArts Darling Downs, DipCin AFTRS  
I. Stocks, BA(Hons) Monash  
H.L. Yeates, BA BEdSt *Qld*, GDMedia AFTRS  
P. Young, BA Deakin, MDefStud NSW

*Senior Tutor:* J. Malone, BA DipEd *Qld*

#### *Tutors:*

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

### **School of Marketing, Advertising and Public Relations**

*Head of School:* Vacant

#### *Senior Lecturers:*

T.L. Euler, MBA *Qld*, ADipME, AAIEx  
B.J. Murchison, BBus(Comn) *QIT*, MBus(Comn)  
V.A. Henderson, MBus(Comn), FAIA  
C.R. Perry, BA LittB MEc PhD NE, MEc ANU, MASOR, AFAIM  
S.M. Wong, BCom&Admin Vic., MBA *Qld*, AAIM, ANZIM

#### *Lecturers:*

D.F. Best, BA *Qld*, GDBusAdmin GDLibSc  
M.J. Briggs, CertT Asopa, MBA *Qld*, GDEdAdmin Hawthorne  
C.W. Collyer, BEcon(Hons) MEconSt *Qld*  
J. Dunleavy, BBus *QIT*, MBus(Mgt), AAIM, MIPMA  
S.Ferris, BA(Hons)(Psych) *Qld*  
S.J. Fitzpatrick, BBus(Comn) *QIT*, FAIA(Dip)  
A. Hales, BA *Syd.*

C.M. Neal, BBus(Comm) *QIT*, GDMktg, GDEd(Tert) MBA *Qld*

W. Scaife, BBus(Comm) *QIT*

R. Stokes, BA *Capricornia*, GDRecPng *Canb.*

H. J. Stuart, BSc DipEd *NE*, MA *ANU*, AFAMI, MMRS

*Tutors:*

M. Den Elzen, BBus(Mgt) DipExMgt, Aust Inst Export (Qld Div)

V. Schinkel, BBus(Mktg)

### **Key Centre in Strategic Management**

*Director:* Vacant

### **Communications Centre**

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

### **Rural Management Development Centre**

*Director:* R. deVere

## **Faculty of Education**

*Dean:* Emeritus Professor A. Cumming, MA(Hons) *Auck.*, PGCE *Lond.*,

PhD *Otago*, FRHstS

*Associate Dean:* Professor P.W. Thomas, BSc(Hons) DipEd *Wales*, MA *Lough.*,

PhD *Qld*, MACE

*Faculty Administration Officer:* J. Zahmel, BBus, ASA

### **Cultural and Policy Studies**

*Head of School (Acting):* B. Limerick, BA BEd(Hons) *Witw.*, UEd *Natal*, PhD *Qld*

*Principal Lecturer:* C.M. Burke, MA *MichS.*, MA PhD *Mich.*, FCP, MACE, MAPsS

*Senior Lecturers:*

L.J. Daws, BA BEd *Monash*, MEd(Hons) *NE*

B.J. Evans, BA *Toronto*, DipEd *LaT.*, MEd PhD *Qld*

T. Garvey, DipSocSt *Enf.*, BA(Hons) *CNA*, MEd PhD *Qld*

M.J. Henry, BA *Melb.*, MA *LaT.*

S.C. Taylor, BSc(Hons) DipEd *Leic.*, BEd(Hons) PhD *James Cook*

*Lecturers:*

M.M. Anderson, BEd *Nth Bris.*, ThA *ACT*, MEd(Hons) *NE*

J.M. Brannock, BA DipEd MLitSt *Qld*

J.F. Cawte, BPhil STL *Kul Belg*, DipEd *Qld*

A.R. Hudson, BA DipEd MA *West Indies*, MA *HK*, GDMedia *AFTRS*

P.S. Inglis, CertT *Kedron Park*, CertStaffDev *Sur.*, FCollP BEdStud MEdSt PhD *Qld*

E.L. McWilliam, DipT *Kelvin Grove*, BA MEdSt *Qld*

D.A. Meadmore, BEd *Brisbane*, DipT CertT MEdSt *Qld*

P.J. Meadmore, BA BEd MEdSt *Qld*

E.M. Neill, DipT *Kedron Park*, BEdSt MEdSt PhD *Qld*

C.D. O'Farrell, BA(Hons) *NSW*, DESU *Paris VIII*, PhD *ANU*

R.C. Slee, BA *Qld*, DipEd *Rusden*, GDSE *MCAE*, MEd *LaT.*

C.T. Symes, BEd(Hons) *S'ton*, PhD *W'gong*

J.P. Synott, DipEd *W'gong*, BA *ANU*, GDEd *Armidale*, MEd *NE*

G.W. Tait, BSc(Hons) *Liv.*, BA *MHMS Qld*, MA *York*

*Senior Tutor:* P.C. O'Brien, BA *Griff.*, GDTech(Sec) *Brisbane*



## **Curriculum and Professional Studies**

*Head of School (Acting):* I.G. Macpherson, BA BEd MEdSt Qld, PhD Penn. S.,  
MACE

*Associate Professor:* R.G. Elliott, BSc BEd(Hons) PhD Qld

*Senior Lecturers:*

M.F. Fogarty, BEd BA MPubAdmin Qld

M.T. Hewitson, BA DipEd Adel., STDip SAust., MEd James Cook, PhD Alta, FACE

S.E. Johnston, BPharm DipEd BEdSt MEdSt PhD Qld

J.W. Lennon, BEd BEcon MEdAdmin Qld

R.A. Lundin, BEd Br.Col., MEd Qld, PhD Monash

R.C. Muller, BA BEd(Hons) Qld

T.A. Simpson, CertT Mt St Marys, BEd MEdAdmin PhD Qld

J.A. Whitta, BEd(Hons) GDEd Armidale, MEd Qld, MEdAdmin NE, MACE

C.A. Yarrow, CertT Kedron Park, AEd BEd BA Qld, MEd Canb., PhD Qld, MACE

*Lecturers:*

T.L. Aspland, DipT Kedron Park, BEdSt BA Qld, MEd Deakin

D.R. Chipley, BA LaSalle, MA EdD Alabama, MACE

R.G. Cope, CertT Syd.TC, BEd(Hons) James Cook, MEdSt Qld

R.J. Hardingham, BSc DipEd BEd MEdAdmin PhD Qld, MACE

J.D. Lange, BEdSt MEd Qld, DEd Ill.

D.C. McArthur, CertT Kelvin Grove, GDAEd T'ville, BEd Brisbane

J. Millwater, CertT DipT BEd Nth Bris., MEd NE

R.G.A. Nimmo, BEcon BEd Qld

D.J. Stewart, DipT NZ, BA Otago, MA Auck., MEdAdmin NE

H.L. Thomas, BA BEd MEdSt Qld

M.B. Wilkinson, CertT Kedron Park, BA Qld, MEd Canb.

## **Early Childhood**

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

*Senior Lecturers:*

G.L. Halliwell, CertT Kelvin Grove, DipT(EC) BKTC, BEdSt Qld, MSc Ill.

J.M. Kean, MADipEd Otago, DipT DC, DipEdPsych Auck., LTCL Lond.

D. LeClercq, DipT Kelvin Grove, BEd Mt Gravatt

S.V. McLean, DipT BKTC, BEdSt Qld, MEd PhD Arizona, MACE

S.K. Wright, BEd MEd Alta, PhD N'cle(NSW)

*Lecturers:*

C.J. A'Beckett, DipKT Melb.TC, GDEdSt IECD

D.C. Berthelsen, DipT Kedron Park, CertSpecEd Mt Gravatt, BA(Hons)

MAppPsych Qld

A.M. Bower, CertT Switz., GDEdSt Melb., BEd James Cook, MEd Qld

B.J. Broughton, CertT Kelvin Grove, CDTRT, DipT(EC) BKTC, BEdSt Qld

C.R. Campbell, CertT Kelvin Grove, Dip ANZATVH, BA MEdSt Qld,

GDE(RE) McAuley

D.F. Catherwood, BA(Hons) PhD Qld

M.A. Farrell, DipT(EC) BKTC, BEdSt MEdSt Qld, MACE

D.E.S. Gahan, DipT(EC) BKTC, BA Qld, MEd Ill.

S.J. Grieshaber, BEd Qld, DipT Mt Gravatt, MEd Qld, MACE

M.B. Henry, BA Syd., DipEd MEdSt Qld

K.A. Irving, BA(Hons) Qld

N.J. McBride, DipT BKTC, BEd Kelvin Grove, MEd Qld

N.L. McCrea, BA MA St Jose, STC(EC) UCS

J.M. McDonell, DipKTC BKTC, BScEd Mills Coll., NY, MScEd Banks St Coll., NY

J.J. Mobbs, BEd *Hartley*, DipT(EC) *Murray Park*, MEd *Qld*  
 D.L. Nailon, CertT *Kedron Park*, DipT(EC) *BKTC*, BEdSt MEd *Qld*  
 B.A. Piscitelli, BA *Keuka*, MEd *Antioch*  
 K.M. Throssell, FroebelCert CertEd *Birm.*, BEdSt MEdSt *Qld*  
 C.A. Weddell, DipT(Primary) *Capricornia*, BEd GDEarly ChildEd MEdSt *Qld*  
 N.J. Yelland, CertEd BEd(Hons) *Exeter*, GDIUC SACAE, MEd *Flinders*, MACE

### **Language and Literacy Education**

*Head of School:* Associate Professor 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 *Jordan Hill*, MA *Glas*.  
 J.G. Borthwick, BA *Syd.*, MEdSt PhD *Qld*  
 G.L. Chapman, BA *Syd.*, BLS *Br.Col.*, ALIA, MACE  
 J.L. Talty, BA *Syd.*, MA *Macq.*  
 W.M. Townley, DipEd *NE*, BA(Hons) *Lond.*, MA *Syd.*

#### *Lecturers:*

D. Carroll, BA AEd *Qld*, LittM *NE*, MACE  
 G.E. Castleton, CertT *Kedron Park*, BEd SACAE  
 D.S. Green, BA DipEd *Monash*, TPTC *Vic.*, MA *Qld*  
 L.J. Linning, BA(Hons) BEdSt *Qld*  
 P.A. Lupton, TeachCert DipT BEd GDT-Lib *Brisbane*  
 K.M. Mallan, DipT *Mt Gravatt*, GDT-Lib *Kelvin Grove*, BEdSt MEdSt *Qld*  
 M.E. Rosser, DipT *Kedron Park*, BEd *Brisbane*  
 A.L. Russell, BA *Adel.*, DipTTech SACAE, MS PhD *Oregon*, ALIA, MACE  
 J. Spreadbury, CertT *Kelvin Grove*, BA MLitSt *Qld*, FTCL, LTCL, ASDA, MACE  
 C.R. Sumner, DipT *Kelvin Grove*, BA(Hons) MA(Hons) *James Cook*, PhD *Qld*  
 P.D. Van Hornrigh, CertRT GDRReading *Mt Gravatt*, BEd *Qld*  
 J. Van Wessem, DipT MA *NZ*

### **Learning and Development**

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

*Associate Professor:* J.A. Clarke, BSc BEd MEdSt PhD *Qld*, MACE

#### *Senior Lecturers:*

J.C. Cook, BA BEd MEdSt *Qld*  
 M.N. Mannison, BA(Hons) *Ill.*, DipEd MA *Calif.*  
 B.A. O'Connor, BEd CDTRT *Qld*, MEd *Oregon*, MACE  
 D.J.H. Smith, BA(Hons) UED BEd *Natal*, MEd *Monash*, PhD *Qld*

#### *Lecturers:*

D.E. Burnes, BEd MEdSt CDTRT *Qld*, DipAATD *Syd.*  
 P.C. Burnett, DipT *Kelvin Grove*, BEdSt MEdSt *Qld*, DipAppPsych *Flin.*,  
 PhD *Ohio*, MAPsS  
 S. Burroughs-Lange, TC *Lond. ATO*, BA *Open*, MA *Sur.*, PhD *Nth Ill.*  
 B.C. Dart, BEd MEdSt *Qld*  
 G.A. Devereux, BSc *Qld*, DipEd *NE*, MSc *Lond.*, MAPsS  
 J.P. Fanshawe, BA BEd MEdSt *Qld*, PhD *Columbia Pacific*, MACE  
 J.N. Suttie, MEdSt *Qld*, GDSpecEd *Mt Gravatt*

## **Mathematics, Science and Technology Education**

*Head of School:* Associate Professor T.J. Cooper, BSc(Hons) DipEd PhD Adel., AARE

### *Senior Lecturers:*

A. Cook, BSc PhD Lond., MEd Tor.

J.H. Dooley, BEd MSc PhD Qld

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

I.S. Ginns, MSc DipEd Syd., PhD Manit.

C.J. Irons, MA N' ton, Iowa, PhD Indiana

P.C.M. Kendal, BA AEd MLitSt Qld, MLitt NE, MSc GDCompEd Brisbane, MACE

K.B. Lucas, BSc MEd Syd., DipEd NE, MSc Macq., PhD Indiana

C.J. McRobbie, BSc BEd Qld, MSc Pacific, PhD Monash, MACE, ARACI, AARE

R.A. Nason, MEd PhD Deakin

P.G. Shield, DipEd BEdSt Qld, MAppSc QIT

K.V. Swinson, CertT Syd.TC, BA NE, MEd NSW, MACE

### *Lecturers:*

W. Atweh, DipT BSc MSc Amer U of Beirut, BA Qld, PhD Wis.

A.R. Batur, DipT Kelvin Grove

J.M. Broadfoot, CertT BSc Qld

D.B. Burrows, BSc DipEd Leeds, BEdSt Qld

K.J. Garrad, DipT BEd Kelvin Grove, GDCompEd Brisbane

R.R. Irons, BA Wis., MEd Indiana

T. Mowchanuk, BSc Adrian, BEd LaT.

E.M. Muller-Stamp, BSc DipEd Wales, MPhil Griff.

B.D. Partridge, BSc BEdSt Qld

R.F. Peard, BSc Qld, MEd Br.Col.

M.C. Ryan, DipT Mt Gravatt, BEd GDCompEd MEd Brisbane

M.J. Shield, BSc DipEd BEdSt MEd Qld

D.F. Tulip, BSc BEd MEdSt Qld, MACE

G.A. Watson, BSc DipEd MEdSt Qld, GDCompEd Brisbane

J.J. Watters, BSc(Hons) Qld, GDEd Canb., PhD Griff., MRACI

M.L. Williams, BAppSc QIT, DipEd Qld, GDCompEd Brisbane

## **Social, Business and Environmental Education**

*Head of School:* Associate Professor R.V. Gerber, BA BEd MEdSt PhD Qld, FAIC

### *Senior Lecturers:*

L. Chadwick, RFD ED BA BEd Qld, MRGSQ, MACE

L.A. Kirkwood, BCom BEd MEdSt Qld, AAUQ (Prov)

J.G. Lidstone, CertEd BSc(Econ)(Hons) AdvDipEd MA PhD Lond., FRGS

P.S. Wilson, CertT Kelvin Grove, BA BEdSt Qld, PhD Ohio S.

### *Lecturers:*

R.R. Ballantyne, BA(Hons) UEDMA Natal, PhD CapeT.

B.A. Hoeppe, BA DipEd BEd MEdSt Qld

J.S. Miles, BA DipEd Qld

D.S. Pang, DipEd Brisbane, BCom BEd MBA Qld, AAUQ, AAIM, CPA, MACE

G.J. Shipstone, BEcon BA MA Qld, DipEdSt (Multicultural) Armidale

E.A. Woodward, DipT BEd Brisbane, BCom Qld

## Faculty of Health

*Dean:* Professor K. J. Bowman, MScOptom *Melb.*, LOsc, FAAO

*Faculty Administration Officer:* M. McCreath, BA *Qld*

### School of Human Movement Studies

*Head of School (Acting):* P. Lofthouse, CertT *Nott.*, ADipEd *Lond.*, DPE *Loughlin*

*Associate Professor:* R. Howell, BPHE(Hons) MA *Alta*, EdD *Calif.*

*Senior Lecturer:* A. Hills, DipT *Bed Tas.*, MSc *Oregon*, PhD *Qld*

*Lecturers:*

R. Berry, DEP *Bed Qld*, MEd *Syd.*

B. Boyd, CertT *Kedron Park*, DPE BHMS *Qld*

G. Costin, DPE *Qld*, BA MEd *James Cook*, MACE

T. Cuddihy, DipT *Kelvin Grove*, BEd MHMS *Qld*

P. Dickson, DipT *Kelvin Grove*, DPE *Qld*, BEd *Capricornia*

P. Feeney, DP *Qld*, GDOE *Edin.*

M. Forwood, BEd *Tas.*, MSc(Qual) PhD *Qld*

K. Gilbert, CertT *Exe.*, BEd *SACAE*, DP MEd *Melb.*

P. Horton, BEd *Qld*, MEd *NE*, PhD *Qld*, CertT *ADPE Exe.*

D. Hyland, AM, DPE BA BEd *Qld*

D. Jones, BEd BCom MEd *Qld*, PhD *Oregon*

M. McDonald, DipT DPE *NZ*, MHK *Windsor*

C. O'Brien, BHMS(Hons) MHMS PhD *Qld*

C. Pope, DPE BEd BHMS *Qld*

C. Purdy, BEd BHMS DipPE *Qld*

H. Scraggs, CertT *Kelvin Grove*, BEd DPE *Qld*

### School of Nursing

*Head of School:* Professor M. E. Clinton, BA *Open*, BA(Hons) PhD *E. Anglia*,

SE Teach Cert, RCNT, PG CertEd *Lond.*, RNT

*Associate Professor:* G. Hart, DipNursing *BCIT*, DCHN *Cumberland*, BA MHP *NSW*

*Senior Lecturers:*

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

H. Edwards, BA *Qld*, DipAppSc *QIT*

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

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

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

D. Weir, BA BSc *Flin.*, MSc *Qld*

*Lecturers:*

D. Anderson, BA *Qld*, GDNS(Ed) *Armidale*

A. Avery, BSc *Riverina*, BCom *NSW*, MEd *W'gong*

F. Sanders, BA *Qld*, DipAppSc *LaT.* MSocPlanDev

A. Barnard, MA *Macq.*

R. Bull, BAppSc *Canb.*

D. Collins, BA *Qld*, BAppSc *QIT*

M. L. Curry, BAppSc *QIT*

R. Elder, BA *Qld*

M. Harris, DipComHlthNrs *BBus*

J. Mannion, BAppSc

S. Scarlett, BA *Well.*, MHP *NSW*

L. Stockhausen, BEd DipTeach

C. Windsor, BA *Griff.*

J. Wollin, BA *Gippsland*, DipComHlthNrs

P. Yates, BA *Qld*, DipAppSc

*Principal Tutors:*

C. Brook, BAppSc

S. Goold, BAppSc, DipNEd

*Senior Tutors:*

J. Cunningham, BAppSc DipNEd

B. Fentiman, BAppSc *QIT*

L. Humphreyes-Reid, DipAppSc *QIT*

H. Nutter, BAppSc

K. Theobald, BAppSc

*Tutors:*

A. Donovan, DipAppSc

H. Donovan, DipAppSc

J. Foster, DipAppSc

J. Holzl, BAppSc

### **School of Optometry**

*Head of School:* Professor L. Carney, BSc MAppSc PhD *Melb.*, LOsc, FAAO

*Associate Professor:* P. G. Swann, BSc(Hons) *Aston*, MAppSc, FBCO, FAAO

*Senior Lecturers:*

D. A. Atchison, MScOptom PhD *Melb.*, FAAO

M. J. Collins, MAppSc, FAAO

J. E. Kitchin, MScOptom *Melb.*, GDRehab *LaT.*, LOsc, FAAO

*Lecturers:*

J. D. Bevan, GDHlthEd *Brisbane*, DipAppSc

C. F. Wildsoet, BSc(Hons) *Qld*, DipAppSc

*Senior Tutor:* V. Shuley, BOptom *NSW*

*Research Fellow:* J. M. Wood, BSc(Hons) PhD *Aston*, MBCO

*Post Doctoral Fellow:* A. Bruce, BScOptom *Melb.*

### **School of Public Health**

*Head of School:* Professor C. Reilly, BPhil *Gregorian Faculty Tullamore*, BSc PhD

*University College Dublin*, HDipEd *Clongowes Wood College*

*Associate Professor:* D. Stewart BA(Hons) *Durh.*, MA(Ed) *Leic.*, PGCertEd *Oxf.*

*Senior Lecturers:*

S. Capra, BSc(Hons) DipNutDiet *Syd.*, MSocSc *Birm.*, MDAA, AHA

B. E. H. Fleming, DipPHInsp *RSH*, BSc MSc *Griff.*, MAIEH, MEIA

A. Crawford, Teach Cert *Manc.*, BEd

P. Hindson, BEc *Syd.*, MPH *Berkley*

C. Jehne, BA BSc(Hons) *NSW*, GDEd(Tert) *Darling Downs*, BA

MEdAdmin *Qld*, MA *Griff.*

M. L. O'Connor, DipT *Kelvin Grove*, MA *Ohio S.*, BEd PhD *Qld*

*Lecturers:*

P. Davey, ADHlthSurv BBus(HlthAdmin) *QIT*, MEnvCHlth *Griff.*

J. DiDonato, BBus

T. Farr, BDesignStud *Qld*, GDOHS *Curtin*

C. Halais, BSc(Hons) *R'dg*, MSc *Lond.*, CertEd *Leeds*, PhD *WAust.*

M. Henry, DipHomeSc *CTCO*, BA *Qld*, MCurrST *NE*, GDCouns *Brisbane*

M. Marendy, DipT *Kelvin Grove*, BEd *SACAE*, MSc *Alta*

J. Mitchell, BA DipEd *Macq.*, ADMedRecAdmin *Cumberland*

S. Napier, BEd DipT(HomeEc) *Kelvin Grove*

E. Parker, BA MSocWork *Tor.S.*  
 C. Patterson, BSc MSc PhD *Qld*, GDBusAdmin *QIT*  
 P. Perlman, BS *Oregon*, DPM *Calif.*  
 S. Pyott, BSc GradCVertEd *Leeds*, AdvDipEd *Brun.*, MSc *Griff.*, CTex *ATI*  
 J. Reynolds, DipT *Kelvin Grove*, BEd *Brisbane*  
 M. Service, BEd DipT *Brisbane*  
 D. Stormont, MSc *Qld*, GDNutDiet *QIT*  
 P. Tinley, BSc *CNA*  
*Principal Tutor:* A. M. Moor, BSc *Nott.*, DipNutDiet *Lond.*  
*Senior Tutor:* A. P. Vivanti, BSc *Qld*, GDNutDiet *QIT*

## Faculty of Information Technology

*Dean:* Professor D. Longley, BSc(Physics)(Hons) *Manc.*, MSc(Tech) *UMIST*,  
 PhD *Leic.*, CEng, FIEE, FAIM  
*Director, Information Security Research Centre:* Professor W. Caelli, BSc(Hons)  
*N'cle(NSW)*, PhD *ANU*, FACS, MIEEE  
*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  
*Associate Professor:* G. M. Mohay, BSc(Hons) *WAust.*, PhD *Monash*, MACS,  
 MACM, AIEEE  
*Senior Lecturers:*  
 P.T.J. Cattell, BSc BEd DipCompSc *Qld*, MSc *Essex*, MACS  
 S. Geva, BSc *Hebrew*, GDComComp *QIT*, MAppSc  
 M.G. Roggenkamp, BEd *James Cook*, DipCompSc MScSt *Qld*, MACS,  
 MACM, AIEEE  
 J. Sitte, PhD *Uppsala*, APS, INNS, MIEEE  
*Visiting Fellow:* S. Russell, BE MEngSc DipCompSc *Qld*  
*Lecturers:*  
 K.F. Anderson, BSc(Hons) *Strath.*, DipEd *Dund.*, DipInfProc *Qld*, MACS, MACM  
 P. Bancroft, CertT *Kelvin Grove*, BSc MScSt *Qld*, GDComComp  
 H.A. Bergen, BSc(Hons) *Massey*, PhD *NSW*, DipCompSc *Qld*  
 R.J. Christie, BA DipT *N'cleCAE*, BA DipCompSc *NE*  
 J.D. Day, BE(Hons) *Syd.*, GDCompSc MEngSc PhD *Qld*, MACS, MACM  
 L.J. Dunn, BA *Qld*, MA *WAust*, MACM  
 G.D. Finn, BSc(Hons) PhD *Qld*, MS *Hawaii*, IAU  
 J. Holford, BAppSc(Physics) *QIT*, DipEd *Qld*, GDCompSc *QIT*, MAppSc(Comp)  
 J.R. Hynd, BSc(Hons) *Qld*, PhD *Syd.*, MACS, MACM  
 G. Low, BAppSc ADipA *Mitchell*, GDMgt *Capricornia*, MACS  
 H.M. Maitland, BAppSc(Maths) *QIT*, DipEd *Qld*  
 N. Richter, BEng *Syd.*, BA MEngSc DipCompSc *Qld*  
 A. Rosel, BEng *Rheinland*, IEAust  
 G. Semeczko, BSc(Hons) *Qld*  
 D. Taylor, BSc *Qld*, MSc *Virginia*, DECUS  
 R. Thomas, BSc *Trin.W.*, APDA  
*Principal Tutor:* A. Rhodes, BAppSc *QIT*  
*Tutor:* A. O'Hagan, BSc *Qld*, MACS, MAUUG

## **School of Information Systems**

*Head of School (Acting):* Associate Professor B.A. Underwood, BBus

AdvProgCert *QIT*, EngDraftCert *CTC*, MS(MIS) *TexasTech*, MBA *Qld*, MACS

*Principal Lecturer:* J.C. Owen, BA(Hons) *Lond.*, MA PhD *Qld*, AdvCertLibSc

MLS *Pitts*, ALIA

*Senior Lecturers:*

A. Anderson, BSc MInfSys *Qld*, MACS

H.H. Bentley, TCert *StLukes*, BSc(Hons) *Manc.*, MSc *Qld*, MACS

M.R. Middleton, BSc *WAust.*, MScSoc DipLib GDHuman Comm *NSW*, ALIA

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

A.B. Tickle, BSc MSc DipCompSc *Qld*, GDMgt *Capricornia*, MACS

*Senior Lecturer (Acting):* D. Edmond, BSc(Hons) *Edin.*

*Lecturers:*

R.D. Andrews, DipT *Kelvin Grove*, BEd *Brisbane*, GDComComp

M. Dixon, BSc *Sacramento*, MBA *San Francisco*

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

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

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

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

M. McLoughlin, BSc(Hons) PhD *Qld*

M. Orlowski, MSc PhD *Warsaw*

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

A.G. Stewart, BA DipEd MLitSt(CompSc) *Qld*, MACS, AIMM, MIEE(CS)

L. Thater, BSc *Sacramento*, MBA *San Francisco*

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

G. Trinidad, BSc(Eng) *Philippines*, MEng(CompSc) DEng(CompSc) *Asian IT*

A. Wheeldon, BSc(Hons) *N'cle(UK)*, MInfSys *Curtin*, MACS

J.J. White, MA MLS *WOntario*, PhD *Qld*, ACS

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

*Senior Tutor:* S. Mitra, BSc(MechEng) MTechnology *India*

## **Faculty of Law**

*Dean:* Professor D.G. Gardiner, BA LLM(Hons) *Syd.*, Barrister

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

### **Law Library**

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

*Assistant Law Librarian:* E.L. Barnett, BA LLB(Hons) *Qld*, GDLegalPrac *QIT*,

GDLibSc

### **Research and Postgraduate Studies**

*Director:* Associate Professor T.R. Sappideen, LLB *Ceyl.*, LLM *Syd.*, LLM *Penn.*, LLM *SJD Col.*

### **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) (Clayton Utz Professor of Commercial Law)

## Law School

*Professor:* D.E. Fisher, MA LLB PhD *Edin.*, Solicitor (Scotland)

*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*, LLB(Hons) *QIT*, Barrister

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

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

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

P. MacFarlane, BA *Flin.*, BLegS *Macq.*, LLM *Syd.*, Barrister

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:*

P.B. Burge, LLB *QIT*, Solicitor

N.A. Burke, BA LLB(Hons) *ANU*, Solicitor

D.A. Butler, LLB(Hons) *QIT*, Solicitor

S.A. Christensen, LLB(Hons) *QIT*, Solicitor

S.E. Colbran, BCom(Hons) LLB(Hons) *Qld*, Solicitor

I.T. Davies, LLB GDLegalPrac *QIT*, LLM *Qld*, Solicitor

A.M. Duetz, LLB *QIT*, Solicitor

H.M. Endre, LLB GDLegalPrac *Adel.*, Barrister and Solicitor (SA), Solicitor (NSW),  
Barrister (Qld, England and Wales)

W.E. Harris, LLB(Hons) *QIT*, Solicitor

S.M. Jackson, LLB(Hons) *QIT*, Solicitor

S. Jones, LLB(Hons) *Qld*, Barrister

A.I. MacAdam, BCom LLB(Hons) *Qld*, Barrister

R.M. Macdonald, BA LLB *Qld*, GDLegalPrac *QIT*, Solicitor

G.I. Mackenzie, LLB *QIT*, Solicitor

F.A. Martin, LLB(Hons) *UTS*, Solicitor (NSW)

F.D. McGlone, BA DipEd LLB *Syd.*, Barrister (NSW)

G.E. Nisbet, BASocWk *Qld*, LLB *QIT*, Solicitor

J. Nothdurft, BA LLB *NSW*, MA *Brun.*

J.R. Pyke, BSc *Syd.*, LLB *NSW*, Barrister (NSW)

M.M. Quirey, BA LLB(Hons) LLM *Qld*, Solicitor

M.M.J. Ridley, BA LLB *Qld*, GDLegalPrac, Solicitor

S.M. Rigney, BA LLB *Qld*, GDLegalPrac *QIT*, Solicitor

D.J. Robinson, LLB(Hons) GDLegalPrac *QIT*, Solicitor

N.J. Rogers, LLB(Hons) *QIT*, Solicitor

C.A. Rowell, LLB DipT *QIT*, Solicitor

M.J. Shirley, BA LLB(Hons) *Qld*, GDLegalPrac, Solicitor

L.A. Taylor, BA LLB(Hons) *Qld*, Solicitor

S. Tongue, BA LLB(Hons) *ANU*, Barrister and Solicitor (ACT), Solicitor (NSW)

L.M. Willmott, BCom LLB *Qld*, LLM *Camb.*, Solicitor

## Legal Practice

*Director:* Associate Professor J.K. de Groot, BA LLB *Qld*, Solicitor

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

*Lecturers:*

K.F. Maxwell, LLB GDLegalPrac *QIT*, Solicitor

J. Pastellas, BA LLB *Qld*, GDLegalPrac *QIT*, Solicitor



## **Justice Studies**

*Director:* Associate Professor S.D. Petrie, CertEd BEd(Hons) *Leeds*, PhD *Qld*

*Deputy Director:* G.J. Dean, MSW *Qld*

*Senior Lecturer:* G. Christie, DipT DipEd MA MEd *Aberd.*

*Lecturers:*

P.F. Condliffe, LLB Melb., BSW *LaT.*, GDEd, Barrister

S.M. Currie, BA LLB *Qld*, Barrister and Solicitor (ACT), Solicitor

C. Imlah, BA NE, GDAbStudies *SACAE*

B.J. Mason, BA LLB(Hons) *ANU*, MPhil(Crim) *Camb.*, Barrister and Solicitor (ACT), Solicitor (NSW)

S. McCulloch, DipT BA(Hons) MAppPsych *Qld*

M.A. Salidu, BA LLB *Qld*

C.S. Thorne, BA *Qld*, DipEdAdmin(Grad) *Griff.*, FBI N A

B.O. Wigan, BA *James Cook*, Dip OHSM, DipMan USA

## **Court and Parliamentary Reporting**

*Course Coordinator:* C.M. Hindmarsh, BA(SecStudies) *Canb.*, MIPS

*Lecturers:*

H. Cain, ADCourt & Parliamentary Reporting *Brisbane*, RPR

T.A. Laing, Dip Court Reporting *NAIT*

## **Faculty of Science**

*Dean:* Professor A.J. Webber, MS *G'town Wash D.C.*, PhD *Qld*, DMT, FAIMLS

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

*Faculty Administration Officer:* S. Gibb, BEc(Hons) Dip *Glas.*, Dip *Stir.*

## **School of Geology**

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

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

*Lecturers:*

M.E. Cox, BA *Macq.*, MS *Hawaii*, PhD *Auck.*

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

A.T. Grenfell, BSc DipEd PhD *Qld*

W.F. Ridley, MSc *Qld*

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

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

*Senior Technical Staff:* W. Kwiecien, CIC, ADAppChem, BAppSc

*Senior Laboratory Technician:* F. Robbins, BSc(Hons) *Dunelm*, MAus IMM

## **School of Life Science**

*Head of School:* Vacant

*Associate Professors:*

M.F. Capra, MSc *Syd.*, PhD *Otago*

J.L. Dale, BScAgr PhD *Syd.*

J.S. Welch, MSc PhD *Qld*, MPH *Syd.*, FAIMLS

*Senior Lecturers:*

J.G. Askov, BSc *Qld*, PhD *Leeds*, FASM, MRC Path *Lond.*

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

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

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

E.A. Bennett, BA BSc(Hons) *Qld*  
 W.A. Dodd, MSc *Adel.*, PhD *Alta*, MAIH  
 P.P. Stallybrass, BAppSc *QIT*, MS *Buffalo, NY*, DMT, FAIMLS  
 P. Timms, MSc PhD *Qld*, MASM  
 J.C. Wilson, MAppSc, CBiol, MIBiol  
 P.A. Wood, BSc(Hons) PhD *Qld*, FASM  
 G.H. Yezdani, BSc(Hons) MSc *SindAg.*, PhD *Monash*, CBiol, MAIBS, MAIBiol

*Lecturers:*

A.J. Anderson, BSc(Hons) MSc *Qld*  
 H. Carberry, BAppSc(MedTech) GDNutDiet *QIT*, GDMedia *AFTRS*  
 T.N. Cassidy, BA BSc *Qld*  
 B.N. Cooke, MSc *Qld*, CertT *Kelvin Grove*  
 J.F. Coulson, BPharm(Hons) *Lond.*, MPharm *Qld*, PhD *Strath.*, PhC, MASM  
 C.J. Craven, MSc *Qld*, MAACB, AAIMLS  
 C. Dallemagne, MB BS *Brussels*, GDTropMed *Antwerp*, PhD *Qld*  
 A.G. Edwardson, BSc(Hons) *Birm.*, BEd MEdSt *Qld*, CBiol, MIBiol  
 R.J. Epping, BSc(Hons) PhD *ANU*  
 T.H. Forster, MAppSc *QIT*, AAIMLS  
 L. Hafner, BSc(Hons) PhD *LaT.*, MASM  
 R.M. Harding, BSc(Hons) PhD *Qld*  
 P. Hoeben, BSc *Adam*, DipBiol *D'dorf*, PhD *ANU*  
 G.J. Kelly, BAgSc(Hons) PhD *Syd.*, MAIBiol  
 C.R. King, BSc *Lond.*, MSc *Salf.*, PhD *Qld*, ARCATS, MAIBiol  
 H.S.F. Loh, BSc *NE*  
 B.W. MacDonald, BSc(Hons) *Qld*, DMT *QIT*  
 B.J. McMahon, MSc *Qld*, CBiol, MIBiol, MAIBiol  
 J.A. Marsh, MSc DipEd PhD, *Qld*, ADBiolLT *Capricornia*, QDAH  
 P.B. Mather, BSc(Hons) PhD *LaT.*  
 A. Pope, BSc *Qld*, CT(IASC), CT(ASC), AAIMLS  
 R.J. Sheedy, BSc(Hons) PhD *Qld*  
 J.R. Simpson, DMT BSc(Hons) PhD *NSW*, DAIMT  
 B.G. Stevens, BSc(Hons) *Qld*  
 A. Taji, PhD *Flin.*  
 T.P. Walsh, BSc(Hons) PhD *Qld*  
 N.A. White, MAppSc  
 I. Williamson, BSc(Hons) *Griff.*, PhD *Flin.*  
 M.O. Young, BA BSc(Hons) MBBS(Hons) *Qld*, DA *RCS Eng.*

*Tutors:*

M.F. Bateson, BSc(Hons) *Qld*  
 M.H. Hargreaves, BSc(Hons) *Qld*, MASM  
 F. Horne, BAppSc  
 T. Yi, BSc *Beijing*

**School of Chemistry**

*Head of School:* 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  
 P.M. Fredericks, BSc(Hons) DPhil *Sus.*, FRACI  
 R.L.W. Frost, BEd MSc PhD *Qld*, CChem, MRACI  
 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, MRACI, AMAusIMM  
G. Smith, BSc PhD *Qld*, DipIndChem, CChem, MRACI

*Lecturers:*

D.P. Arnold, BSc PhD *Qld*, DipIndChem, CChem, MRACI  
N.D. Bofinger, BSc *NE*, PhD *Qld*, CChem, MRACI  
C.F. Carvalho, BSc(Hons), PhD *WAust.*, MRACI  
I.S. Costin, BSc(Hons) PhD *Qld*, DipTertEd *NE*, MEdSt, MRACI  
G.K. Douglas, BSc(Hons) *NE*, PhD *Tas.*, CChem, MRACI  
K.P. Herlihy, BSc(Hons) *Qld*, DipIndChem, CChem, MRACI  
R.A. Johnson, MSc PhD *Qld*, MRACI  
G.M. Kimber, MSc BEd *Qld*, CChem, FRACI  
D.S. Sagatys, BSc(Hons) *Qld*, PhD *IIT*  
M. Selby, BSc(Hons) PhD *NSW*, MRACI  
B.N. Venzke, MSc PhD *Qld*

*Laboratory Manager:* N.A. Seils, DipIndChem

*Senior Laboratory Technicians:*

P.R. Comino, CIC, ADAppChem  
E.P. Martinez, CIC, ADClinLabTech  
A.M. Schwede, CIC, ADAppChem  
P.R. Stevens, CIC, ADAppChem

**School of Mathematics**

*Head of School:* A.N. Pettitt, BSc(Hons) MSc 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. MacGillivray, BSc(Hons) PhD *Qld*  
I.F. Ogle, MSc *NE*, FSS, FQFA, MSSA  
J. Van Leersum, BSc BE(Hons) PhD *Monash*  
A.M. Wolanowski, MSc *Lubin*, PhD *Warsaw*, DipCompSc *Qld*

*Lecturers:*

R.N. Buttsworth, BSc(Hons) BA(Hons) MSc DipEd PhD *Qld*  
C.C. Calder, BSc(Hons) MSc *Lond.*  
E.P. Dawson, BSc DipEd *Wash.*, MA *Syd.*, MLitSt MSc *Qld*, PhD *QUT*, AFICA  
R.J.B. Fawcett, BSc(Hons) PhD *Qld*, AMusA, ATCL  
Dawei 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 *METU*, PhD *HU*  
M.R. Littler, BSc(Hons) *Lond.*, DipMaths(Tech) CEng, FIMarE, AFIMA  
M.S. Mackisack, BSc(Hons) BA(Hons) DipEd PhD *ANU*  
L.M. Scotney, BSc DipEd *Qld*  
N.M. Spencer, BAppSc(Maths) ADElecEng *QIT*, PhD  
B.S. Tasker, BA *NE*, MAppSc  
E.M. Walker, BSc(Hons) *Qld*, MSc *Oxf.*, AIA *Lond.*, AAIA  
D.F. Welbum, BSc *Qld*

*Principal Tutor:* H.M. Gustafson, BSc(Hons) DipEd NE  
*Senior Research Officer:* I.W. Turner, MAppSc QIT  
*Statistical Consultant:* M.A. Haynes, BMath N'cle(NSW), MScSt Qld

### **School of Physics**

*Head of School:* B.W. Thomas, MSc PhD DipEd WAust., FAIP, MACPSEM, FAIM

*Principal Lecturer:* B.J. Thomas, BSc(Hons) PhD WAust., 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 Armidale

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

B.M. O'Leary, BSc DipEd Syd., MSc Sur., MAIP

L. Moranska, MS PhD Cracow

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, GDBusAdmin, MIR, ASUM (ASSOC)

G.H. Johnston, ADElecEng MAppSc

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

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

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

R.J. Norton, BSc Qld, MSc Brun., MAIP

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

P.A. Rowntree, DipAppSc GDEd(Tert) NE, MIR

D.E. Starkey, DipAppSc, MIR

J.D. Veitch, BArts (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

# RESEARCH CENTRES

## Australian Key Centre in Land Information Studies

The Australian Key Centre in Land Information Studies (AKCLIS) 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.

Research projects selected by AKCLIS for funding in 1991 ranged from a systemic analysis of the capabilities of optical character recognition in an existing land titles system, environmental monitoring using geographical information systems in a mining application, to higher order relationship studies between use of topological data within the state's digital cadastral data base. 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 1990-91 financial year, AKCLIS delivered, participated in, or coordinated training programs totalling more than ten work years for local interstate and international trainees. Well over half of the training conducted by AKCLIS is undertaken for overseas governments or in overseas locations. Extensive consultancies in training have been undertaken in South-east Asia and the South-west Pacific as nations strive to provide opportunities for their future.

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 60 learned papers were presented in 1990 by AKCLIS researchers at conferences, seminars and workshops both in Australia and overseas.

*Director:* S. Johnston, BBus (Man) QIT, MSc Bath

## 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 aquaculture and plant tissue culture.

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, population management, aquaculture and plant tissue culture.

The academic and research staff of the Centre are drawn from diverse areas of the biological sciences thus ensuring a wide 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, aquaculture and plant tissue culture. 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
- ☐ use of novel species in aquaculture
- ☐ use of genetic and physiological techniques for improving production in the aquaculture industry
- ☐ new plant varieties of economic importance
- ☐ new plant propagation techniques.

**Education and Training Program:**

- ☐ honours, master and doctoral programs
- ☐ integration of research with undergraduate programs
- ☐ overseas students
- ☐ bursaries and fellowships
- ☐ continuing education programs.

*Director:* Associate Professor M.F. Capra, MSc Syd, PhD Otago

## Centre for Eye Research

The Centre for Eye Research was established in the School 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 School 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 (Acting):* Associate Professor P.G. Swann BSc(Hons) Aston, MAppSc, FBCO, FAAO

# Centre for Medical and Health Physics

The Centre for Medical and Health Physics was established in 1988 to provide a 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.

Recent progress has been considerable, particularly considering that nearly all funding for operation has to be generated by members acquiring research grants and consultancies.

A wide range of research and consultancy projects has 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
- ☐ 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.

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

## **Centre for Molecular Biotechnology**

The Centre for Molecular Biotechnology was established in 1988 and currently has a staff and postgraduate complement exceeding 50. The Centre is located on the Gardens Point campus in a modern, well-equipped laboratory complex with associated facilities. The focus of the Centre is research and postgraduate education in the area of recombinant DNA technology. Research is concentrated into a few programs with emphasis on strategic grant-funded and contract research. Postgraduate education includes Master, PhD and programs and components of the Honours and Graduate Diploma in Biotechnology courses. The Centre actively encourages interaction with other groups and has established collaborative projects and links with other institutions and Queensland companies.

The current principal research programs include:

- ☐ the development of rapid diagnostic technology for human genetic diseases
- ☐ molecular plant virology and pathology
- ☐ chlamydia diagnosis and control

- ☐ muscle protein structure and function
- ☐ molecular biology of photosynthesis
- ☐ arbovirus pathogenesis.

*Director:* Associate Professor J. L. Dale, BScAgr PhD Syd., MASM

## Centre for Mathematics and Science Education

The Centre for Mathematics and Science Education (CMSE) seeks to promote a numerate and scientifically literate society by coordinating research in the teaching and learning of mathematics and science. It further seeks to apply this research through graduate teaching, consultancy, curriculum development and the production of educational resources. CMSE is affiliated with the Faculty of Education, with staff drawn primarily from the School of Mathematics, Science and Technology Education but with members from other schools and faculties. An administrative office, clinical facility and computer laboratory are located at Carseldine campus while a research facility is maintained on Kelvin Grove campus.

### Research

The research program of staff associated with the Centre may be classified broadly into four categories:

- ☐ curriculum and instruction in mathematics and science
- ☐ cognitive science
- ☐ social context of teaching and learning, and
- ☐ information technology in mathematics and science education.

In each area, the emphasis of the project is on both empirical findings and more general theoretical models.

### Consultancy

For CMSE, consultancy is a major priority in its aim to promote success and excellence in mathematics and science for students of all ages and backgrounds. Staff are actively involved in a range of consultancy services to meet the needs of schools, industry and the general community. These services include: diagnostic, remedial and enrichment activities with students; inservice seminars and short courses for industry and educators; cooperative projects with business and Education Departments; and writing and editing for publishers.

### Teaching

Staff have taught in undergraduate, graduate, and continuing education courses in mathematics education, science education and the disciplines of mathematics and science. Staff are active in higher-degree courses and in supervising theses. Within the Master of Education, it is possible to specialise in mathematics, science or technology education. A PhD program is available.

Staff are involved in projects to write bridging and preparatory courses for tertiary mathematics and science. Staff are very active in writing teacher-education materials in mathematics and science education and in authoring classroom texts.

*Director:* Associate Professor T. Cooper, BSc(Hons) DipEd PhD Adel.

# Centre for Product and Process Development

The Centre for Product and Process Development is a joint venture of the Faculty of Built Environment and Engineering and the Faculty of Business.

It provides a forum for interdisciplinary design and development in the fields of mechanical engineering, electrical engineering, electronics, industrial design, manufacturing and marketing.

The purpose of the Centre is to provide a source of research, consultancy and continuing education in the design and development of technical products and processes. The activities emphasise interaction between QUT and external partners in industry, institutions and government.

Efforts are concentrated on product innovation, product design, and raising the level of design quality for products and manufacturing processes thereby increasing the competitiveness of Australian business and products in world markets.

The Centre provides a key link for organisations in accessing divergent areas of expertise assisting both internal and external participants to gain maximum benefit from research conducted for commercial benefit.

*Director:* R. W. Nicol, BE(Hons) MEngSt Qld, MIE Aust

## Information Security Research Centre

The Information Security Research Centre (ISRC) was formed in July 1988 as a joint venture between industry and the University's Faculty of Information 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(NSW), PhD ANU, FACS, MIEEE, MACM

# 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 Faculty of Business and coordinates participation from QUT's faculties of Built Environment and Engineering and Science, and from experts at the 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. The Chair in Quality Management is the first of its type within Australia and is funded by the Queensland Government.

Key Centre activities include:

## Teaching:

- ☐ management certificates in general management; human resource management; financial management; public sector management
- ☐ workshops on the implementation of quality management
- ☐ Women in Management course
- ☐ PhD programs especially in quality management
- ☐ course development for electives and TAFE.

## Research:

- ☐ The Centre has developed its own research of case studies in quality management and it funds research assistance for the Key centre participants at Newcastle University, Bond University and for QUT Tourism research
- ☐ Other projects include a book: *Australian Employment Relations: Human Resource Management and Labour Relations* co-authored by M. Gardner and G. Palmer for Macmillan Pty Ltd
- ☐ ARC funded grant on 'Australian Human Resource Management: The Causes and Effects of Different Policies' and 'Small Business', and research into Quality Management techniques.

## Consultancy:

- ☐ The largest management consultancy project in 1990 was a contract to produce a Managerial Review of the transition from a CAE to a University for the DEET Reserve fund. Consultancies in General Management and Quality Management have also been undertaken for 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*.

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

## Physical Infrastructure Centre

The Physical Infrastructure Centre was established by QUT in 1990 as a national focus for civil engineering research. It aims to become self-funding via consultation, continuing education and research services to industry, government and the University.

Management of the Centre is via a Steering Committee consisting of representatives of the Department of Transport (Queensland Railways and Transport Technology divisions), the Administrative Services Department, School of Civil Engineering staff and private industry.

The Centre works closely with industry and government to identify and carry out key projects which will strengthen, upgrade and refurbish the State's physical infrastructure. By developing improved design, analysis, management, maintenance and rehabilitation techniques, the Physical Infrastructure Centre is enriching some of the State's most valuable assets. These include roads, railways, bridges, water and wastewater treatment plants, urban drainage and solid waste treatment systems, building structures and associated earthworks, pavements and materials.

As society becomes more sophisticated so the stress applied to these systems increases dramatically. The Physical Infrastructure Centre's work is helping to reduce the cost to the community of maintaining these assets and improve the understanding of the interaction of elements within each of the major systems.

Some of the Centre's major projects include:

- ☐ involvement in the rehabilitation of the Story Bridge
- ☐ researching cracked mechanisms and control for low cost roads on expansive soil clays
- ☐ developing individual household package plants for wastewater treatment
- ☐ improving traffic flows by examining the traffic interaction between roundabouts, signalised and unsignalised intersections
- ☐ devising a new portal frame building system using recently developed hollow flange beams sections.

Since 1988, staff involved in the Centre have delivered 12 invited/keynote addresses at international and national conferences, and produced five monographs, 90 refereed journal and conference proceedings and 40 other publications. It has also two commercial computer software programs.

The Centre presently has eight principal researchers, three external associate researchers, 12 internal associate researchers, four PhD students and 15 MEng students and eight MEngSc students.

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

## Terotechnology Centre

Terotechnology is officially defined as 'a combination of management, financial, engineering and other practices applied to physical assets in pursuit of economic life cycle costing'. It 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 is therefore multi-disciplinary, requiring no new disciplines, and is essentially a new way of examining and grouping some familiar activities and amalgamating well-tried methods to improve the management of physical assets.

Application of terotechnology brings an awareness that the on-going costs of ownership (such as maintenance) may be higher than the initial capital cost; and the realisation that lower first cost does not necessarily mean lowest whole-life cost.

Adoption of the terotechnology concept has proved to be beneficial in achieving product quality and reliability economically.

The Terotechnology Centre is sponsored by the University and a group of prominent industrial organisations.

Implementation of the concepts of terotechnology requires an excellent communications network. The Terotechnology Centre, working in liaison with industry, provides the link for the dissemination of current technology within industry, whilst also pursuing research into the exploitation of new technology and processes. The benefits to industry are:

- ☐ ready access to the information resource of a major academic cell in Australia working in an area not usually well covered in academia and yet of vital interest to industry
- ☐ availability of a steady stream of graduates with a prime interest in, and respect for, modern methods of plant maintenance and operation
- ☐ ready access to results from a significant number of relevant student undergraduate investigations. (Each project represents between 90 and 180 hours work)
- ☐ an enlarged program of continuing education in this field
- ☐ ready access to more test equipment and expertise for reference, testing and consultation
- ☐ enhanced prospect of major government subsidised research and development investigations in joint QUT-industry projects
- ☐ reports on conferences, seminars, professional experience programs in which staff have participated both nationally and internationally
- ☐ Implementation of project work at QUT as suggested by the industrial partner.

*Director:* Professor D. J. Sherwin, MSc Birm., PhD Lough., CEng MIMechE, MICA, MIPlantE

# ACADEMIC AND STUDENT SERVICES

## Aboriginal and Torres Strait Islander Unit

The Aboriginal and Torres Strait Islander Education Program was established in 1984 to meet the needs of students, and to respond to a growing demand by both staff and students for the provision of Aboriginal and Torres Strait Islander perspectives across all courses. At the beginning of 1991 the Aboriginal and Torres Strait Islander Unit (ATSIU) was formed. A major aim of the Unit is to develop and improve the participation and successful outcomes for Aboriginal and Torres Strait Islander students.

The Unit's central office is on the Kelvin Grove campus with offices on the Gardens Point and Carseldine campuses. In addition to teaching and research services the Unit provides academic and welfare support to all Aboriginal and Torres Strait Islander students at QUT.

In 1991 the Unit responded to increased demand for entrance to a diversity of courses across the faculties and campuses; and Aboriginal and Torres Strait Islander students gained entry into a wide range of courses including the Bachelor of Social Science, Bachelor of Business, Bachelor of Education, Bachelor of Arts, (Drama, Music and Visual Arts), Bachelor of Laws, Bachelor of Nursing, Bachelor of Teaching, and Bachelor of Applied Science.

The Unit 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 Unit 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 Unit assist in teaching mainstream courses throughout the University.

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

## 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 and one part-time chaplain 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 spirit 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.

A chaplain is available at the Chaplaincy Centres on the following days:

**GARDENS POINT**, Old Government House near the entrance to the Library, Monday to Friday. Telephone (07) 864 2700 or (07) 864 2086.

**KELVIN GROVE**, room C420, Community Building, Monday, Tuesday, Thursday. Telephone (07) 864 3135.

**KEDRON PARK** Friday. Telephone (07) 864 4290.

**CARSELDINE**, level 4 of the Community Building on Wednesday and Friday. Telephone (07) 864 4529.

**AFTER HOURS:** John Woodley. Telephone (074) 98 8670.

## Computing Services

Computing Services exists to provide high quality information technology services to the University community. It is a department within the Division of Information Services.

Services offered by Computing Services include:

- ☐ the provision and maintenance of a wide range of computing facilities
- ☐ the provision and maintenance of the University-wide data communications network with links to world-wide data networks
- ☐ the maintenance and support of computing software
- ☐ the provision of user information and help
- ☐ the provision of training courses to University staff and postgraduate students
- ☐ the provision of corporate and departmental information systems to assist in the management of the University
- ☐ the provision and management of personal computing laboratories for teaching and student use
- ☐ the provision of specialised computing services for research work
- ☐ the provision of a repair service for personal computing equipment owned by various departments and sections of the University
- ☐ the provision of a contract programming service to departments of the University
- ☐ the provision of a data entry service.

## Major Computer Systems

The major computers in the University network are:

- ☐ A Digital Vax cluster which is used for teaching, research, and administration. The processors are a Vax 6430 with 128 megabytes of memory and a Vax 8550 with 96 megabytes of memory. The cluster has a total of 14.7 gigabytes of disk storage, four high density cartridge drives, two tape drives, two line printers, a high



capacity laser printer, an optical mark reader, and a diverse range of graphics equipment. The operating system is VMS Version 5.

- A Hewlett-Packard HP 3000 which is primarily for administration. It has 96 megabytes of memory, 5.6 gigabytes of disk space, and one tape drive. The operating system is MPE/XL.
- A Convex C 210 mini-supercomputer providing superior research computing facilities. It has an integrated vector processor, 128 megabytes of memory, 4 gigabytes of disk storage, and a tape drive. The operating system is Unix.
- A Hewlett-Packard HP 9000 which is used for teaching and research. It has 16 megabytes of memory, 1.2 gigabytes of disk space, and a tape drive. The operating system is Unix.
- A Data General MV 15000 and an AWA Sequel which provide library automation including on-line public access catalogues. These will shortly be replaced with a new library system.

## **The Communication Network**

The computing facilities of the University are connected by a data communications network, which links buildings and campuses. The inter-campus links are used for both data and voice traffic. More than 2000 workstations and terminals are located on the four Brisbane campuses and the Sunshine Coast facility at Nambour.

Devices in a growing number of areas are connected to the Ethernet network, either directly or via terminal servers. Others are connected via an MDX or Micom port selector. These communication systems are linked so that any device may be connected to any of the systems on the network. The network may also be accessed via a significant number of dial-up lines. A number of local area networks are in the process of being integrated into the University network.

Computing Services supports all services available through the Australian Academic and Research Network (AARNet), which is connected to major networks throughout the world. Services include national and international e-mail, network news, connection to remote host computers, and file transfer.

## **Software**

An extremely wide range of software is available for research, teaching, office automation, and personal productivity purposes. This includes languages, editors and other utilities, software development platforms, electronic mail, word processing, text processing and other office automation systems, and a broad range of teaching and research application packages.

Common languages include Ada, Basic, C, Cobol-74, Fortran, Lisp, Macro-32, Modula II, Occam, OPS-5, Pascal, Prolog, RPG, and Simula. Software development platforms include Oracle, Powerhouse, and Rdb.

The mail systems are integrated, but users have a choice of mail interface, including PC Mail, Vax Mail, and HP Desk.

Important application packages include SPSS-X, SAS, Genstat, Nastran, GDS, GKS, Lindo, GNC, Tex, Latex, Aspen, Spice, Camel, and Sig.

## Campus Computer Centres and Laboratories

The major systems are housed in machine rooms associated with campus computer centres at Gardens Point and at Kedron Park. Other campuses also have Computer Centres which act as a focus for computing activities there.

Computing Services also manages approximately 21 computer laboratories located on the various campuses. The laboratories are equipped with microcomputers, specialised workstations, graphical display terminals, and VDUs. Most of these are connected to the University network or a local area network. Much common microcomputer software is available on these systems, including WordPerfect, MS-windows, Lotus 123, dBase IV, and DrawPerfect.

## Hours

Mainframe computers are available 24 hours a day, seven days a week, except for times needed for stand-alone file backup and preventive maintenance. These times are chosen to cause minimum disruption to normal use, and vary from system to system. If any system is scheduled to be unavailable, information will be posted in on-line news and log-on messages on that system.

Operator coverage is provided at Kedron Park from 8:15 am to 4:30 pm Monday to Saturday, and at Gardens Point from 8:00 am to 11:30 pm Monday to Friday and 8:30 am to 5:00 pm Saturday and Sunday during semesters and many weekends between semesters.

Most computing laboratories are open 24 hours a day, seven days a week. They either allow open access or access via a lock whose combination is issued to authorised students.

Full information on system scheduling, backup times, opening hours, and operator coverage is provided by the Computing Services Help Desk on 864 4275.

## Management Information Systems

QUT is a large modern organisation which makes extensive use of automated information systems in its management. The Management Information Systems section is responsible for the planning, analysis, design, development, coordination, and support of these systems. Important systems include the personnel/payroll system, the student information system, the finance system, and the equipment system. Management Information Systems also undertakes the production of specific information systems for schools and departments on a contract basis.

## User Assistance

The department provides a broad range of services to assist users in making the most of computing facilities. These include:

- ☐ A help desk giving direct assistance to University staff on all aspects of computer use. You may seek help by personal visit to the Help Desks at Gardens Point or Kedron Park, or via the Help Desk telephone lines on extension 4275.
- ☐ Training courses provided to staff and postgraduate students in the use of facilities, operating systems and important application programs.
- ☐ A wide range of documents which assist users in various aspects of computer use, including how to get started in using various computer systems, introductions to operating system commands, system utility programs, languages, and important application programs.

- ❑ A consultancy service to staff on a broad range of information technology issues. Specialist advice is available in areas including supercomputing, use of Computer Aided Design/Computer Aided Manufacture, statistical analysis, and typesetting.
- ❑ A data conversion service, converting files between various formats and media.
- ❑ A data entry service, particularly appropriate for users with large quantities of data (such as survey data for statistical analysis).
- ❑ A contract programming service specialising in services such as technical programming, data analysis, and the development of departmental information systems.
- ❑ Services providing the evaluation, purchase and installation of hardware, software and consumable items.

## **Field Service and Repair**

Computing Services undertakes to maintain and repair items from a list of recommended computing equipment. This list of recommended equipment is available from Computing Services to aid sections of the University in making their purchases, and covers a wide range of items.

## **Charging**

Unless explicitly stated, no actual transfer of funds occurs when Computing Services undertakes computer processing work solely for the education of QUT staff or students or for QUT administration. Accounts are generated, however, for record and control. Facilities are sometimes made available for external use for specifically agreed projects and at commercial rates listed in the schedule of charges.

## **Rules**

Rules have been designed to encourage the best use of the University's computing resources by all authorised users. Summaries of the rules are posted in laboratories and a full list is available from the department. All users are expected to respect these rules.

## **Counselling and Health Services**

The Department of Counselling and Health is an autonomous professional department of the University, which 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 and Careers Services**

The Counselling 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 Careers Section organises the Campus Interview Program for final year students, and helps students prepare for these interviews. It also conducts a survey of graduate destinations in the year following graduation.

The Counselling and Careers Service 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 is a range of general welfare and guidance services, including financial aid, course and career information, and an accommodation self-help service. Contact with many other agencies in the community offering services to students is also provided.

Services are provided by professionally qualified staff. Facilities vary across campuses but generally include consultation rooms, 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) 864 2383

#### **KELVIN GROVE CAMPUS**

Top Floor  
Community Building  
Telephone: (07) 864 3488

#### **KEDRON PARK CAMPUS**

Ground Floor  
'D' Block  
Telephone: (07) 864 4290

#### **CARSELDINE CAMPUS**

Level 1  
Community Building  
Telephone: (07) 864 4539

## **Health Services**

QUT Health Services are available to all students and staff. Provided are:

**Comprehensive general practice patient-care:** Lifestyle advice, including information on exercise, stress, drugs and sexually transmitted diseases; minor surgery including removal of warts, moles and sunspots; pathology services including blood tests.

**'Well-woman' care:** smear tests, breast examination and contraceptive advice.

**Campus accident and emergency care:** First aid treatment of injury and acute illness occurring on campus.

**On-going nursing care:** General advice on health maintenance; continuing care of injuries, and minor operations; surveillance of medical conditions such as hypertension, asthma, diabetes; vaccinations and international travel advice; health education information and pamphlets.

Health Services are available on each campus and all consultations are strictly confidential.

A Medicare card or Medibank book (for international students) is necessary for medical consultation.

#### **GARDENS POINT CAMPUS**

Lower Level  
Community Building  
Telephone: (07) 864 2321

#### **KELVIN GROVE CAMPUS**

Top Floor  
Community Building  
Telephone: (07) 864 3126

#### **KEDRON PARK CAMPUS**

Counselling & Health Centre  
D Block  
Telephone: (07) 864 4290

#### **CARSELDINE CAMPUS**

C Block, Level 2  
Room C216  
Telephone: (07) 864 4673

## Students with Disabilities/Health Problems

Students with disabilities or health problems who may require special assistance or support during their studies are encouraged to make early contact with the Department of Counselling and Health (telephone (07) 864 2383) or the relevant course coordinator. They are also requested to indicate such special needs at enrolment. Those with temporary disabilities arising from accidents and illness that may occur during the year should also make known their needs if special support services are required.

The University seeks to provide appropriate support services for students with disabilities. These may include:

- ☐ accessible parking for those with mobility problems
- ☐ effective learning/study skills workshops
- ☐ scheduling classes in accessible rooms
- ☐ lending special audiovisual equipment
- ☐ assistance to access library resources
- ☐ lecture material in different formats such as tapes, braille, large print, computer disks
- ☐ a note-taker to assist in lectures
- ☐ an interpreter for deaf students
- ☐ alternative academic assessment procedures.

Early contact should be made with a counsellor or the course coordinator to discuss special needs. Assistance with physical and study facilities and informing appropriate staff of special needs can be expedited with early notice. An information booklet – *A Guide to Students with Disabilities* – is available on request from the counsellor.

## 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 undertake consultancies and research in 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, ESP (English for Specific Purposes) and EAP (English for Academic Purposes) programs.

The Institute is primarily a conduit for overseas students to the University's undergraduate and graduate programs. Many students who complete the ELICOS (English Language Intensive Courses for Overseas Students) programs pursue formal award courses offered by the 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, the Institute conducts English language programs for overseas-trained migrants who wish to update their skills or who wish to enter their professions in Australia. The Department of Immigration, Local Government and Ethnic Affairs (DILGEA) sponsors the Migrant Professional Program.

Staff at the Institute have particular expertise in the area of language proficiency testing. One member of staff has an international reputation in language testing, having worked on the development of the Australian Second Language Proficiency Ratings (ASLPR) and the International English Language Testing Service (IELTS). IAL staff have been involved in language education programs in Afghanistan, Austria, China, Ethiopia, Papua New Guinea, South-east Asia, the Middle East and several other countries.

Staff at the Institute have been successful in securing international consultancies in applied linguistics and TESOL. The Director has designed and developed UNESCO projects in Afghanistan, Mongolia and China. The project in China will greatly influence the training of ESL teachers in four provinces of remote South-west China and more importantly, the project may eventually affect the teaching of English to as many as seven million secondary school students. IAL staff have also had consultancies in Australia, Britain, Indonesia, the Maldives, Thailand and the United States of America.

Research interests within the Institute include:

- ☐ language testing
- ☐ language learning styles
- ☐ language teaching methodology and materials
- ☐ syllabus design and evaluation
- ☐ English for Specific Purposes.

*Director:* E.V. Burke, CertT Asopa, MA Lanc., Dip TOEFL Trinity Coll.(Lond.), PhD MSU

## International Students

An international student is any student who is not a citizen or permanent resident of Australia or New Zealand.

### Attendance

To meet student visa requirements, a student must be enrolled full-time, i.e. 75% or more of a full-time credit load. Special approval must be obtained through the Office of International Students for a student to study on a part-time basis.

### Application and Enrolment

All international students, except those studying Year 12 in Australia, should apply on an 'F' form. Year 12 students should apply through QTAC.

Following acceptance of an offer and payment of one semester's fees and health cover charges, a student will be issued with an Acceptance Advice form to apply for a visa to travel to Australia. Enrolment will be completed during Orientation.

Requests for change of course and other variations to enrolment should be directed initially to the Office of International Students on the appropriate forms.

### Fees

Information on international student tuition fees is available from the Office of International Students. Tuition fees include student guild payments, all international

student support services including airport greeting, accommodation advice and English language support. International students are exempt from HECS.

Tuition fees must be paid by the due date in order for re-enrolment to be confirmed for the following semester. Failure to re-enrol will result in the cancellation of the student's visa. The Overseas Student Health Cover (OSHC) charge must be paid every 12 months before re-enrolment can be confirmed.

Students returning to full-time study after a period of absence are required to pay the tuition fees appropriate at the time of return.

Tuition fees are partially refunded for withdrawal from the course up to the end of Week 6 of the semester. After that time, no refund is available.

Fees for students on approved part-time study are levied pro rata, according to the proportion of full-time credit points being studied.

In some limited cases, applicants on temporary resident visas may be allowed to enrol part-time as visiting students. Fees are levied on a pro rata basis as for other part-time international students.

## **International Student Services**

International Student Services provides special assistance to overseas and migrant students. Reception, orientation, accommodation and ESL training are some of the services provided. International Student Services also provides information and advice to the spouses and families of international students and to 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) 864 2806

### **KELVIN GROVE CAMPUS**

Top Floor  
Community Building  
Telephone: (07) 864 3488

### **KEDRON PARK CAMPUS**

Ground Floor  
'D' Block  
Telephone: (07) 864 4223

### **CARSELDINE CAMPUS**

Level 1  
Community Building  
Telephone: (07) 864 4539

## **University Library**

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 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 online catalogues available within the buildings, via campus networks, and on a dial-in basis for persons with modems.

## **Locations**

Libraries are located on 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 of the Library and may borrow materials on any campus. Identification card(s) are required whenever and wherever a user borrows.

The QUT Library has extensive reciprocal borrowing arrangements with Griffith University. As well, staff and students may also be eligible to register for reciprocal 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. Special reciprocal loans may be requested if the items are held by Griffith University. Online 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 a liaison service. A reference 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 reference librarian and students should enquire at the Information Desk or ask their lecturers.

**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. 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.



# PRIZES AND AWARDS

## Faculty of Arts

### **Dorothy Birt Memorial Prize**

Awarded to the most outstanding student enrolled in the Master of Arts (Visual Arts) in the history of textiles.

## Faculty of Built Environment and Engineering

The majority of prizes awarded to students in the Faculty of Built Environment and 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.

\* An asterisk indicates those few prizes which require students to apply in order to be considered.

### **Amatek Rocla Prize**

Awarded to the Bachelor of Engineering (Civil) third year student who achieves the best academic results from the final examination and class assignment in 'Construction Management and Economics' and 'Construction Practice'.

### **Applied Micro Systems Australia Pty Ltd Prize**

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

### **Applied Micro Systems Australia Pty Ltd 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 1 student who achieves the best academic result in the subject 'Land Surveying 1'.

### **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 1'.

### **Australian Construction Services Prize**

Awarded to the student with the best overall performance in the subjects 'Electrical Machines' and 'Electrical Energy Utilisation' whilst enrolled in the Bachelor of Engineering (Electrical and Computer Engineering) course.

### **Australian Design Council Student Award**

Awarded to the student developing the most outstanding product design during their industrial design studies at the Queensland University of Technology.

### **Australian Federation of Construction Contractors – 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

\* *Applications required.*

construction industry. The candidates for this award will be interviewed by the AFCC who will make the final selection.

**Australian Federation of Construction Contractors – Construction Industry Award\***

Awarded to a student from one of the courses: Bachelor of Engineering (Electrical and Computer Engineering), 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 Bachelor of Applied Science in Construction Management.

**Australian Institute of Cartographers (Queensland Division) Prizes**

Awarded:

- ☐ to the best final year student in the Associate Diploma in Cartography for their performance over the whole course; and
- ☐ to the best student of the Bachelor of Applied Science (Surveying), Cartography strand for their 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 Project Management, Queensland Chapter Prizes**

Awarded:

- ☐ to the Graduate Diploma in Project Management student with the highest grade point average for the course; and
- ☐ to the Master of Built Environment (Project Management) student with the best dissertation.

**Australian Institute of Queensland Surveyors, Queensland Chapter/David McNeill Memorial Award**

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.

**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 1'.

**Paddy Behan Memorial Prize – Design in Landscape Architecture**

Donated by the Local Government Association of Queensland and awarded to the student in the Graduate Diploma in Landscape Architecture who shows the most outstanding ability in the final year elective 'Design Study'.

**Paddy Behan Memorial Prize – Planning Study**

Donated by the Local Government Association of Queensland and awarded to the student with the best performance in either the subject 'Research Methods and Individual Project'

in the Graduate Diploma in Urban and Regional Planning course, or the 'Thesis' in the Urban and Regional Planning strand of the Master of Applied Science.

### **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 Memorial 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 Built Environment course.

### **Robert S. Brodribb Memorial Prize**

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

### **CMPS Prize\***

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

### **Cottrell Cameron & Steen Surveys Pty Ltd Prize**

Awarded to the student in the Bachelor of Applied Science (Surveying) course who obtains the best result in the subject 'Photogrammetry 2'.

### **Course Administrator's Prize for Leadership**

Donated by the staff of the School 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.

### **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 Built Environment and Engineering.

### **Design Institute of Australia Award**

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

### **DSTO Microwave Radar Undergraduate Prize**

Awarded to the final year undergraduate student in Electrical or Electronic Engineering who submits the final year project of exceptional merit in an area of technology relevant to microwave radar.

### **Electric Energy Prizes**

Donated jointly by QEC and SEQEB and awarded:

\* *Applications required.*

- ❑ to the Bachelor of Engineering (Electrical and Computer Engineering) student specialising in Power and Control in the later years of the course, with the best performance in designated subjects relevant to electric energy; and
- ❑ to the graduate of the Associate Diploma in Engineering course with the best performance in designated subjects relevant to electric energy.

### **Engineering and Surveying Alumni Award**

An award will be made to a final year degree student from each engineering 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 obtains the highest aggregate marks for the subjects 'Geology for Engineers', 'Soil Mechanics 1' and 'Soil Mechanics 2' 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.

### **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'.

### **Hardie Iplex Pipeline Awards\***

Donated by Hardie Iplex Pipelines and awarded to a student enrolled in the penultimate year in each of the degree and associate diploma courses in Civil Engineering. The awards are 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 1' and 'Land Development Practice 2'.

### **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'.

\* *Applications required.*

**Honeywell Limited Prize**

Awarded for outstanding academic performance by a Bachelor of Engineering or Associate Diploma in Engineering student in the field 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 for excellence in the course.

**Institute for Drafting and Design Australia Prize**

Awarded to a graduate of an Associate Diploma in Engineering course who obtains the best aggregate result 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 Electrical Engineers, United Kingdom Prize**

Awarded to the honours student submitting the best project in the final year of either the Bachelor of Engineering (Electrical and Computer Engineering) or Bachelor of Engineering/Bachelor of Applied Science (Electronics and Computing).

**Institution of Engineers, Australia Prize – Electrical Engineering**

Awarded to the graduand with the highest grade point average who is also a student member of the Institution of Engineers, Australia.

**Institution of Engineers, Australia – 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.

**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 1' and 'Engineering Drawing 2', and who successfully completes all subjects in semesters 1 and 2 and enrolls in all subjects for semester 3.

### **John Kindler Memorial Prize\***

Awarded in memory of Mr John Kindler, former Chief Engineer in the Coordinator 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 their potential as a graduate.

### **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'.

### **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 the Master of Engineering Science (Civil) course.

### **Karl Langer Memorial Award**

Donated by the Australian Institute of Landscape Architects and awarded to the 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.

### **Leica Instruments Pty Ltd Prizes**

Awarded:

- ☐ to the student in 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 1' in the Bachelor of Applied Science (Surveying) course.

### **Local Government Engineering Prize**

Donated by the Queensland Foundation for Local Government Engineering, and awarded to the graduating Bachelor of Engineering (Civil) student who obtains the best overall performance in the subjects: Civil Engineering Design 2, Transport Engineering 1, Public Health Engineering 2, 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.

### **Neville Lund Memorial Prize**

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

\* *Applications required.*

**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 elective subjects 'Geotechnical Engineering 2' and 'Geotechnical Engineering 3'.

**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.

**Minister for Housing and Local Government Town Planning Prize**

Awarded to the final year student whose thesis is considered to contribute most towards the advancement of town planning in the area of local government.

**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 the first three years of the course and who has the highest aggregate score over those three years.

**National Trust Historic Building Prize**

Awarded to two final year students one from the School of Architecture, Interior and Industrial Design and one from the School of Planning and Landscape Architecture for a thesis study of an historic building or precinct.

**Office Operations Prize**

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'.

**QEC Awards for Instrumentation and Control**

Awarded:

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

**Queensland Cement Limited Prize**

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

**Queensland Department of Transport Prizes**

These prizes are awarded to officers of the Queensland Department of Transport in attendance at the University, with the best performances in the following courses: Bachelor of Engineering (part-time), Associate Diploma in Engineering (cadet draftsman), 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.

**Rider Hunt Research Prize – Quantity Surveying**

Awarded to the student in the Bachelor of Applied Science (Quantity Surveying) who has submitted the research paper on a topic related to the Quantity Surveying profession judged to have the highest standard in both content and presentation.

**Royal Australian Institute of Architects – QIA Medallion**

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

**Royal Australian Planning Institute Prizes**

Awarded:

- ☐ to the final year student with the best performance in course work in the Graduate Diploma in Urban and Regional Planning course;
- ☐ for the best performance by a student in the Planning and Landscape Architecture strand of the Bachelor of Built Environment course;
- ☐ for the best performance by a first year full-time student in the Graduate Diploma in Urban and Regional Planning course; and
- ☐ for the best performance by a first year part-time student in the Graduate Diploma in Urban and Regional Planning course.

**A. G. Scott Memorial Prize**

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

**Michael P. Schloman Memorial Prize**

Awarded to a full-time or part-time student undertaking the Bachelor of Built Environment who at the first attempt shows the greatest overall proficiency in the first year units of this course or its equivalent, based on weighted grade average.

**Society for Growing Australian Plants Prize**

Donated by the Society for Growing Australian Plants and awarded to a student in the Graduate Diploma in Landscape Architecture course for the best design using Australian native plants.

**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.

**Surveying Staff Land Studies Prize**

Donated by staff within the QUT School of Surveying and awarded to the student in the Bachelor of Applied Science (Surveying) course who completes second year with the highest average result in the subjects: 'Land Studies A', 'Land Studies B', 'Land Administration 1', 'Land Administration 3' and 'Land Administration 4'.

**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.

**Surveys for Government Prize**

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.



**Telecom Engineering Prize**

Awarded to a third year full-time student in either the Bachelor of Engineering (Electrical and Computer Engineering) course or the Bachelor of Engineering/Bachelor of Applied Science (Electronics and Computing) course completing 'Information Theory and Noise' at the first attempt, who achieves the highest semester grade point average for the semester in which 'Information Theory and Noise' is completed.

**Urban Design Advisory Council Surveying Prize**

Donated from a fund established by the Urban Design Advisory Council and awarded to the student enrolled in the Bachelor of Applied Science (Surveying) course who produces the best urban design in the final year of the course.

**Urban Design Advisory Council Town Planning Prize**

Donated from a fund established by the Urban Design Advisory Council and awarded to the student enrolled in the Graduate Diploma in Urban and Regional Planning course, who submits the best option project in the final year of the course.

**VIPAC Engineers and Scientists Ltd Award**

Awarded to the student with the highest aggregate result for all subjects in the third year of the full-time program in the Bachelor of Engineering (Mechanical) course.

**Yamaha/Accord Computer Engineering Microelectronics Design Prize**

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

**Carl Zeiss Pty Ltd Prize**

Awarded to the student in the Associate Diploma in Cartography course who obtains the best average result in the subjects: Photogrammetry 1, Photogrammetry 2 and Photogrammetry 3.

**Faculty of Business****Accountancy Placements Pty Limited Prize**

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

**Advertising Institute of Australia Prize**

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

**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 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 enrolled in either the Accountancy major of the Bachelor of Business degree *or* the combined Bachelor of Business – Accounting/Bachelor of Laws degree, entering their final year of study. The student will have completed at least 16 subjects. Selection criteria includes 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', 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 – Journalism 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 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 Management Medallion, Bursary and Prizes**

*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 Certified Practising 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 degree and who is academically eligible for admission to the Australian Society of Certified Practising 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.

**B105 FM Scholarship**

Awarded annually to a Bachelor of Business student who has completed second year full-time studies undertaking the major in Journalism, Public Relations, Advertising or Film and Television Production. During the final year of the degree program the successful applicant will undertake an internship program at B105 FM.

### **BTQ Channel 7 – Scholarship**

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

### **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 with any School of the QUT Faculty of Business.

### **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 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 the first attempt, in the subject 'Computer Security and Audit'.

### **Golden Casket Prize for Strategic Marketing**

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

### **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 1' and 'Accounting 2'. 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.

**IBM Prize in Business Computing**

IBM will award a prize to the student who, on completion of the Business Computing secondary major in the Bachelor of Business (Accountancy) degree, achieves the highest grade point average in the subject comprising that secondary major. The prize will consist of \$450 and was awarded for the first time in 1991.

**ICI Australia Limited Prize**

Awarded to the best final year student majoring in Marketing who is enrolled in the Bachelor of Business – Marketing 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' 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 degree, who takes the subject 'Independent Study HRM' 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 communication-related Bachelor of Business degree who obtains the best overall results in this course.

*Communication:* awarded to the student in the Bachelor of Business 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 – Marketing course, who takes the subject 'Marketing Management' 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 second year subject 'Auditing' and obtains the highest marks in that subject 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 2'.

**Public Relations Institute of Australia (Queensland) Prize**

Awarded to the student who completes the Bachelor of Business – Public Relations degree, and obtains academic distinction in the Public Relations major 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 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 two students enrolled in the Bachelor of Business degree who attain the highest marks in the subject 'Marketing Research'.

**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 1' and 'Public Policy Process 2' for the first time, and obtains the highest aggregate pass in those subjects.

**Society of Business Communicators (Queensland) Prize**

Awarded to the student, enrolled in the Bachelor of Business 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 is a member of the Australian Society of Accountants, is resident in Queensland, is not a full-time student, and who 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 'Taxation of Business Entities' for the first time, in the one calendar year, and obtains the highest pass in those subjects.

**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.

## **Faculty of Health**

### **Allergan Optical Prize**

Awarded to the third year student who gains the highest aggregate mark in the subjects 'Optometry 5' and 'Optometry 6'.

### **Allergan Hydron Prize**

Awarded to the third year student who gains the highest mark in the subject 'Contact Lens Studies 6'.

### **Australian Biomechanics Corporation Award**

Awarded to the student in the Bachelor 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 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 '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 Bachelor of Nursing (Pre-registration) 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 Clinical Dietetics**

Awarded to the student who demonstrates outstanding application of clinical dietetics, based on performance in the subject 'Practice in Clinical Dietetics'.

### **L.K. Claxton Award**

Donated by the Australian Podiatry Association (Qld) and awarded to the student who shows the greatest proficiency in the first two semesters of the 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 Services 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 their 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 Bachelor of Applied Science (Podiatry) who gains the greatest distinction in the final year of the course.

**Home Economics Professional Associations Prize**

The Home Economics Association of Queensland, the Queensland Association of Home Economics Teachers and the Home Economics Alumni offer an annual prize of \$500 to the outstanding graduate of the Bachelor of Education (Secondary – Home Economics) and the outstanding graduate of the Bachelor of Applied Science (Home Economics) 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 1 and 2'.

**Dr Leo Kelly Award for Dermatology**

Donated by the Australian Podiatry Association (Qld) and awarded to a third year Podiatry student for their achievement in Dermatology.

**Florence Nightingale Committee, Australia – Queensland Branch Prizes**

Awarded to post-registration students enrolled in the Bachelor of Nursing. Details available on request from the School of Nursing.

**Duncan Palmer Memorial Prize**

Donated jointly by the Australian College of Health Services Executives 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 1' and 'Health Management 2' of the Bachelor of Business – Health Administration course.

**Queensland Meals on Wheels Services Assoc Inc Prize**

Awarded to the top student in the subject 'Practice in Community Nutrition' in the graduate Diploma in Nutrition and Dietetics. The student will be selected by appropriate members of staff.

**Queensland Medical Record Association Prize**

Awarded to the graduating student who obtains the highest mark at the first attempt in the subject 'Health Information Management 4'.

**Queenstate Awards**

Donated by Queenstate Nursing Service Pty Ltd and awarded to one student from the pre-registration and one student from the post-registration Bachelor of Nursing courses. The award is for the best overall results in the subjects 'Professional Issues in Nursing 1 and 2' and 'Research in Nursing Practice'.

**Remington Marshall Award**

Awarded to the student in the final year of the podiatry course who attains the highest rate of progression overall during the fifth and sixth semesters.

**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**

### **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 2' 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'.

### **IBM Prizes of Excellence**

Donated annually by IBM Australia Ltd and awarded for excellence shown by a student of the Bachelor of Business (Computing) course.

### **NCR Australia Pty Ltd Prize**

Awarded to the Bachelor of Business (Computing) 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.

### **State Library 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.

## **Faculty of Law**

### **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' of those completing their course 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 average 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 average 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', 'Company Law and Partnership', 'Drafting and Legal Transactions', 'Land Contracts' and 'Taxation Law'.

**Charles Seymour Memorial Prize**

An annual prize of \$500 presented by Phillips Fox to perpetuate the memory of the late Charles Seymour.+

**CLOSED PRIZES****Central District Law Association Bursary**

A prize of \$300 awarded each year to a student, normally resident in the Central Queensland area, with the highest mark in 'Introduction to Law'.

**Gold Coast Law Association Bursaries**

*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.

\* Criteria subject to final approval.

+ Subject to final approval.

### **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**

#### **Australian Law Librarians Group (Queensland Division) Prize**

A prize of \$300 awarded each year to the best student in 'Legal Research and Writing 2'.

#### **Australian Shorthand Reporters Association (Queensland) Prize**

An annual prize awarded to the graduate of the Associate Diploma of Business – Court and Parliamentary Reporting course with the best performance in the subject 'Reporting 4'.

### **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'.

*BA Justice Studies:* A prize of book vouchers to the value of \$100 awarded each year to the most outstanding student in the BA Justice Studies course.

*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'.

*Queensland Police Recruit Program:* A prize of book vouchers to the value of \$100 awarded each year to the most outstanding student from the Queensland Police Recruit Program.

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

### **Clarke and Kann Prizes**

*Law of Contract:* A prize of \$450 awarded each year to the best student in 'Law of Contract'.

*Taxation Law:* A prize of \$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'.

### **Corrs Chambers Westgarth Prize\***

*Company Law and Partnership:* A prize of \$1,000 awarded each year to the best student in 'Company Law and Partnership'.

\* Subject to final approval.

### **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 Prize**

*Civil Procedure:* 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'.

### **Queensland Young Lawyers Prize**

*Family Law:* A prize of \$200 awarded each year to the best student in 'Family Law'.

### **Sly & Weigall Cannan & Peterson Prize**

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

### **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'.

## **Faculty of Science**

### **Advanced Technology Laboratories/AIR 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 5’ and ‘Clinical Biochemistry 6’.

**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 Bachelor of Applied Science (Applied Chemistry) course. 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.

**CRA Exploration 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 the student 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 6' 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.

#### **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 1' 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 the 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 5' and 'Haematology 6' 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 6'.

**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.

**Meadow Lea Foods – 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).

**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 6' 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.

**Nursery Industry Association Prize**

To be awarded to the second year student with the highest aggregate marks in the subjects 'Plant Physiology 1' and 'Plant Tissue Culture 1'.

**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.

**Plant Tissue Culture Prize**

To be awarded to the student with the highest aggregate marks in the subjects 'Plant Tissue Culture 2' and 'Plant Physiology 2'.

**Population Management Prize**

To be awarded to the student with the highest aggregate marks in the subjects 'Population Management' and 'Case Studies in Population Management'.

**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 5' and 'Clinical Bacteriology 6' 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.

**Science Alumni Prize**

Donated by the Science Alumni of QUT and awarded to the field of mainstream physics with particular reference to radiation safety.

**Seaworld Prize**

Awarded to the student with the best overall performance in 'Projects 1 and 2', in the final year of the Bachelor of Applied Science (Biology) 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 1 and 2'.

**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.



# 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.

All students are members of the Guild, and as such, have access to all Guild services. The Guild can only continue to be effective through the support and involvement of its members.

## 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 Student Information Centres on each campus. Students can access a variety of services, facilities and equipment through these centres 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 relevant campus Student Information Centre.

### Education and Welfare Services

#### ACADEMIC APPEALS ASSISTANCE

A member of staff is available to assist students wishing to appeal against an academic grade or academic ruling (eg exclusion) of the University. The service is free to members. For more information telephone (07) 864 4010.

#### AUSTUDY ADVICE

Specialist advice is available on how to apply for Austudy or appeal a decision on Austudy eligibility. The service is free to members. For more information telephone (07) 864 4009.

#### LEGAL SERVICE

The Guild retains Caxton Legal Service to provide advice and assistance to students. Appointments can be made through the relevant campus Student Information Centre. 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. Further information is available from your campus Student Information Centre.

#### **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. Contact the relevant campus Student Information Centre. The service is free to members.

#### **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 telephone (07) 864 1690. The Guild will also be sponsoring a new child care centre to be built at Carseldine during 1992.

#### **SECONDHAND BOOKSHOPS**

A wide range of secondhand books is offered for sale through Guild offices and Student Information Centres 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.

#### **NATIONAL UNION OF STUDENTS**

The Guild is a member of the National Union of Students (NUS) and participates in a range of State and national forums on education issues. All students are eligible to nominate and vote for NUS delegates.

## **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 telephone (07) 864 1688.

#### **GYMNASIUMS/FITNESS CENTRES**

The Guild operates gymnasiums at Kelvin Grove (telephone (07) 864 3710) and Gardens Point (telephone (07) 864 1685) offering fitness assessments, weights, aerobics, squash courts (Kelvin Grove), and sports medicine clinics. Other recreation activities are also available.

#### **PHYSIOTHERAPY CENTRES**

The Guild contracts with a physiotherapy clinic to provide a physiotherapy service at Kelvin Grove (telephone (07) 864 3711) and Gardens Point (telephone (07) 864 1687). Fees are very reasonable.

#### **WEIGHT TRAINING ROOMS**

Kedron Park and Carseldine have weight training rooms available for use by students. Contact Student Information Centres for further information.

#### **GAMES ROOMS**

All campuses have games rooms 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.

### **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.

### **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. Watch noticeboards for more information throughout the year.

### **RECREATION COURSES**

A range of recreation courses is 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 appear throughout the year.

### **RECREATION EQUIPMENT**

A limited equipment pool is available for use by students.

For more information about sport, recreation and activities contact: Recreation Office (Gardens Point) telephone (07) 864 1679; Recreation Officer (Kelvin Grove) telephone (07) 864 3708; Recreation Officer (Kedron Park and Carseldine) telephone (07) 864 4017.

## **Media and Publications**

### **STUDENT NEWSPAPER**

The Guild regularly publishes a free community newspaper called 'UTOPIA' 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. For more information contact 'UTOPIA', telephone (07) 864 1684.

### **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 Room is located at Gardens Point and 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 Guild employs a part-time Women's Services Officer at Gardens Point and a full-time Women's Services Officer who covers Kelvin Grove, Kedron Park and Carseldine. The Women's Services Officers are available to assist with information, complaints and problems, and work 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.

For more information about the Women's area and services telephone (07) 864 1682 (Gardens Point) and (07) 864 3709 (Kelvin Grove, Kedron Park and Carseldine).

### **Campus Student Information Centre**

Staff in the 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 Centres, including photocopiers, wordgraph machines, thermal copiers, and typewriters.

Other services provided through these Centres include identity photos (Gardens Point), stationery and stamp sales, Queensland Teachers Credit Union Agencies (Kelvin Grove, Kedron Park, Carseldine), photodeveloping (Kelvin Grove, Kedron Park, Carseldine), laminating services and sales of cassette tapes, computer disks, T-shirts and sweatshirts.

For more information contact Student Information Offices: Gardens Point telephone (07) 864 4714; Kelvin Grove telephone (07) 864 3704; Kedron Park telephone (07) 864 4016 and Carseldine telephone (07) 864 4714.

### **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 photo developing and dry cleaning services. Telephone (07) 864 1681.

#### **GRADUATION GOWN HIRE AND SALE**

The Guild hires out gowns, hoods and caps for graduation ceremonies or photographs. Hire fees are very reasonable. Academic wear is also available for sale. Telephone (07) 864 1666.

#### **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.

For further information about the Guild, its services and facilities contact any Student Information Centre or the Guild Secretariats at Gardens Point and Kedron Park. (General enquiries telephone (07) 864 1666).

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

# ART COLLECTION

Queensland University of Technology houses a significant collection of more than 800 International and Australian paintings, sculptures, decorative arts and works on paper, including prints, drawings and watercolours. These holdings represent the fourth largest public art collection in Queensland.

The Collection encompasses works of art from the mid-nineteenth century to the present day. Its greatest strengths lie in the group of 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 eighteenth and 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. Within this principal collecting area, during 1992 priority will be given to:

- ☐ the acquisition of works by important contemporary Queensland based artists
- ☐ the further development of areas of strength in the Collection, namely Australian contemporary ceramics and prints
- ☐ the acquisition of prints, drawings and watercolours by important contemporary Australian artists, which relate to key works in the collection of Australian art of the 1970s
- ☐ the acquisition of works by Gwyn Hanssen Pigott and William Robinson as a special-emphasis program.

Housed at the Gardens Point, Kelvin Grove, Kedron Park and Carseldine campuses, the Collection is a major educational and recreational resource, relating to both the intellectual enrichment and cultural development of the University and the wider community.

Policies, objectives and funding relating to the Collection are determined by the University's Art Collection Committee. The Collection is administered by the University Curator, Stephen Rainbird and Assistant Curator, Tracy Muche.



# 2

## Student Rules

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# 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.

For information on the University's admission rules and procedures please refer to the publication *Admission Procedures 1993* which is available from QUT's Admissions Section

## 1. Enrolment

### 1.1 Deferment of enrolment

Commencing students may be granted deferment of enrolment if the request is made 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.

### 1.2 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.

### 1.3 Enrolment (commencing students)

FORM:	Enrolment Form for Commencing Students
SOURCE:	Enrolments Office, Kelvin Grove campus; Campus Administration Offices
SUBMIT TO:	Enrolments Office, Kelvin Grove campus; Campus Administration Offices

A commencing student is enrolled on completion of all of 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 options form
- ☐ completion of any other required procedures.

#### **1.4 Re-enrolment (continuing students)**

FORM:	Enrolment Form for Continuing Students
SOURCE:	Enrolments Office, Kelvin Grove campus; Campus Administration Offices
SUBMIT TO:	Enrolments Office, Kelvin Grove campus; Campus Administration Offices

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 Rule 2.

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.

#### **1.5 Personal information**

A student is obliged to provide personal information for statistical purposes as required by the Commonwealth Government.

#### **1.6 Mailing address**

FORM:	Change to Enrolment Form or Change of Personal Details Form
SOURCE:	Enrolments Office, Kelvin Grove campus; Campus Administration Offices
SUBMIT TO:	Enrolments Office, Kelvin Grove campus; Campus Administration Offices

A student is required to provide a reliable mailing address for correspondence with the University and must promptly notify the University of any change of address. Failure to receive a notice because of change of address is not sufficient excuse for missing a deadline or an obligation.

#### **1.7 Confirmation of enrolment**

Each semester, and following any change of enrolment details, 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.

#### **1.8 Nomination of enrolment program**

##### **1.8.1 Maximum and minimum semester loads**

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 for a full-time semester in the course, or the number of credit points allocated to the semester of the course from which the majority of subjects has 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.

### 1.8.2 Prerequisites and co-requisites

A prerequisite subject is one which must be passed before the student proceeds 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 the student having passed the specified prerequisites if the Head of School 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 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 the student completed all assessment requirements while enrolled in the subject. This provision allows for a student to proceed to a subject while repeating its prerequisite.

### 1.8.3 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
- ☐ non-compliance with course rules.

## 1.9 Change to enrolment program

FORM:	Change to Enrolment Form
SOURCE:	Enrolments Office, Kelvin Grove campus; Campus Administration Offices
SUBMIT TO:	Enrolments Office, Kelvin Grove campus; Campus Administration Offices

Students are responsible for advising the Registrar of any changes to their enrolment program. Students may only receive a result for subjects in which they have been officially enrolled.

### 1.9.1 Addition and 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 approved only in exceptional circumstances as determined by the Registrar or relevant Course Coordinator and are subject to the payment of a late fee.

### 1.9.2 Cancellation of subjects

Students may cancel their enrolment in subjects except where the cancellation results in an enrolment program which has fewer credit points than the minimum allowable, or which 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 if satisfied that the cancellation was necessitated by medical, compassionate or other exceptional circumstances.

In the case of multi-semester 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 multi-semester 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 necessitated by medical, compassionate or exceptional circumstances.

### **1.10 Change of course or major**

Offers of admission to commencing students will specify the particular course and, where applicable, major for which the offer is made. Students are required to enrol and complete at least the first semester accordingly.

#### **1.10.1 Transfer to another course or major offered by the same Faculty**

FORM: Intra-Faculty Changes Form (Form I)  
SOURCE: Faculty Administration Office  
SUBMIT TO: Faculty Administration Office

Students who wish to transfer to another course offered by the same Faculty or to transfer to another major within the same course, may apply to do so using the Intra-Faculty Changes Form (Form I). Applications will be determined by Faculties and will be subject to the following prescriptions:

- (i) if the application is made after completion of the first semester but before completion of the first year the student must have met the minimum entry level which applied for the proposed new course or major in the most recent admission period;
- (ii) if the application is made after completion of the first year the student's eligibility will be assessed according to criteria established by Deans of Faculties and published before the close of applications each year.

#### **1.10.2 Transfer to a course offered by a different Faculty**

Students who wish to transfer to a course offered by a different Faculty should apply as follows:

- ☐ in the case of an undergraduate course, to QTAC, using Form B

- in the case of a postgraduate course, to the QUT Admissions Office, using Form P.

### **1.11 Change of attendance mode**

FORM: Intra-Faculty Changes Form  
SOURCE: Faculty Administration Office  
SUBMIT TO: Faculty Administration Office

#### **1.11.1 Definitions of attendance modes**

- 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.
- External students are students undertaking all subjects in a semester by external study.

#### **1.11.2 Procedure**

Offers of admission to commencing students will specify the attendance mode for which the offer is made. Students are required to enrol and complete at least the first semester accordingly.

Students who wish to change to another attendance mode may apply to do so using the Intra-Faculty Changes Form (Form I). Applications will be determined by Faculties.

### **1.12 Transfer to another campus**

Where a course is offered on more than one campus, students will be allocated to one of the campuses and will be required to attend that campus for at least the first semester.

Students who wish to change to another campus may apply to do so using the Intra-Faculty Changes Form (Form I). Applications will be determined by Faculties.

### **1.13 Exceptions**

In special circumstances Deans of Faculties may approve exceptions to policies set out above in 1.10 – 1.12, as under:

- the requirement that commencing students enrol and complete at least the first semester of their course as specified in their offer of admission; that is, no change to course, major, attendance mode or campus before the end of the first semester of the course;
- the requirement in 1.10.1 (i) that students who wish to transfer to another course or major within the same Faculty must have met the minimum entry level which applied for the proposed new course or major in the most recent admission round.

### **1.14 Concurrent enrolment**

Concurrent enrolment in two or more QUT courses is permitted except where the total study load in a semester exceeds 48 credit points, in which case the approval of the Course Coordinator of each course is required.

### **1.15 Alternative studies**

FORM: Application to Undertake Alternative Studies  
SOURCE: Enrolments Office, Kelvin Grove campus;  
Campus Administration Offices  
SUBMIT TO: Enrolments Office, Kelvin Grove campus;  
Campus Administration Offices

Alternative studies refers to the completion of a subject or subjects at QUT or another tertiary institution:

- (i) in place of core subjects listed in the course structure, or
- (ii) in satisfaction of 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.

### **1.16 Leave of absence**

FORM: Cancellation/Leave of Absence Form  
SOURCE: Enrolments Office, Kelvin Grove campus;  
Campus Administration Offices  
SUBMIT TO: Enrolments Office, Kelvin Grove campus;  
Campus Administration Offices

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 by 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 leave of absence is terminated and their enrolment status is altered to 'cancelled'.

### **1.17 Cancellation of enrolment**

FORM: Cancellation/Leave of Absence Form  
SOURCE: Enrolments Office, Kelvin Grove campus;  
Campus Administration Offices  
SUBMIT TO: Enrolments Office, Kelvin Grove campus;  
Campus Administration Offices

Students may cancel their enrolment in a course at any time but should take into account the provisions of Rule 1.9.

### **1.18 Re-enrolment following a period of non-attendance**

**FORM:** Readmission Form (Form R)  
**SOURCE:** QUT Admissions Office, Kelvin Grove campus;  
Campus Administration Offices  
**SUBMIT TO:** QUT Admissions Office, Kelvin Grove campus;  
Campus Administration Offices

Students who wish to re-enter a 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 Form R
- ☐ if re-entering any year of a postgraduate course, apply to the University using Form R.

If the student has been excluded from the course, the provisions of Rule 1.19 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.

### **1.19 Re-admission after exclusion**

**FORM:** Readmission Form (Form R)  
**SOURCE:** QUT Admissions Office, Kelvin Grove campus;  
Campus Administration Offices  
**SUBMIT TO:** QUT Admissions Office, Kelvin Grove campus;  
Campus Administration Offices

Students who have been excluded from a course as a result of unsatisfactory academic performance may seek re-admission to the course after a period of time. Applications for re-admission will not be considered until at least two semesters have elapsed since exclusion. Applications require the approval of the relevant Faculty Academic Board.

Application is made directly to the University on Form R and must be lodged not later than two months prior to the commencement of the semester in which the student wishes to resume. 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.

### **1.20 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 the right of appeal. (See Rule 8, Student appeals.)

## 2. 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 6. 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.

## 3. Non-award studies

### 3.1 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.

### 3.2 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.

### **3.3 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.

#### **3.3.1 Cross-institution student**

FORM:	Cross-institution Admission Form (Form X)
SOURCE:	QUT Admissions Office Kelvin Grove campus; Campus Administration Offices
SUBMIT TO:	QUT Admissions Office Kelvin Grove campus; Campus Administration Offices

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.

#### **3.3.2 Visiting student**

FORM:	Visiting Student Application Form (Form V)
SOURCE:	QUT Admissions Office Kelvin Grove campus; Campus Administration Offices
SUBMIT TO:	QUT Admissions Office Kelvin Grove campus; Campus Administration Offices

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.

### **3.4 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.

### **3.5 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 7).

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.

## 4. Transfer of credit

FORM:	Application for Credit
SOURCE:	Credit Office, Kelvin Grove campus; Campus Administration Offices
SUBMIT TO:	Credit Office, Kelvin Grove campus; Campus Administration Offices

### 4.1 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:

#### 4.1.1 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.

#### 4.1.2 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.

## **4.2 Forms of credit**

Three alternatives are available:

### **4.2.1 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.

### **4.2.2 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.

### **4.2.3 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.

## **4.3 Application procedure**

### **4.3.1 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.

### **4.3.2 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.

### **4.3.3 Other requirements**

Applicants for credit may be required to attend an interview or to undergo an appropriate form of assessment.

### **4.3.4 Notification**

Decisions on applications for credit will be conveyed in writing by the Registrar.

## **4.4 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 6. Review of grades and academic rulings.

## **5. Assessment**

### **Assessment policy**

#### **5.1 Assessment policy**

Students will be assessed in accordance with the published assessment policy and practices of the Faculty offering the subject.

#### **5.2 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**

#### **5.3 Availability for examinations**

Students must be available throughout periods designated for centrally organised examinations. Examinations may be held between 8.00am and 9.00pm on weekdays, and 8.00am and 6.00pm on Saturdays.

#### **5.4 Timetables**

Timetables for centrally organised examinations will be released to students no later than two weeks prior to their commencement.

#### **5.5 Student identification**

Students must bring into the examination room and keep displayed their Student Identification Card.

#### **5.6 Students to comply with directions**

5.6.1 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.

5.6.2 A student's behaviour must not disturb, distract or adversely affect any other student.

#### **5.7 Entering and leaving an examination room**

5.7.1 Students who are given permission to enter or leave an examination room shall comply with all conditions on which the permission is given.

5.7.2 Students are not permitted to leave the examination room:

- (i) until half the prescribed working time has elapsed
- (ii) during the last 15 minutes of working time

unless there are exceptional circumstances such as illness.

5.7.3 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.

### **5.8 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.

### **5.9 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.

### **5.10 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.

### **5.11 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.

### **5.12 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**

### **5.13 Penalties**

4.13.1 If a student breaches Rules 5.6, 5.7, 5.8, 5.9, 5.10, 5.11, or 5.12, the student may be dealt with under the Student Discipline By-law.

5.13.2 A student who breaches any of the rules stated in 5.13.1 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.

5.13.3 Students accused of a breach of the rules will be given the opportunity to show cause why a penalty should not be applied.

5.13.4 A student excluded because of cheating 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:	Examination Office, Gardens Point campus; Campus Administration Offices
SUBMIT TO:	Examination Office, Gardens Point campus; Campus Administration Offices

### **5.14 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 5.16, 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.

### **5.15 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 5.16, should normally be submitted prior to or within three days of the examination or the submission of the assessment item.

### **5.16 Documentation required for deferred examination or special consideration**

5.16.1 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.

5.16.2 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

### 5.17 Final results

#### Pass Grades

- 7 High Distinction
- 6 Distinction
- 5 Credit
- 4 Pass
- 3 Low Pass (see footnote)
- or, where approved for use, S – Satisfactory

#### Fail Grades

- 2 Fail
- 1 Low Fail
- K Withdrawn – Failure
- or, where approved for use, U – 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

- E – Exempt
- W – 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.

### 5.18 Unfinalised Results

The following will be recorded when a result is not finalised at the time of release of results :

- |                          |   |
|--------------------------|---|
| A – Result Unfinalised   | – The result will be issued when available          |
| Supplementary Assessment | – Student is to undertake supplementary assessment. |
| Deferred Examination     | – Student is to undertake a deferred examination.   |
| T – Assessment Continues | – Studies extending over more than one semester.    |

## 5.19 Grade Point Average

The Grade Point Average (GPA) is a simple numerical 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 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

### 5.20 Release of results

Following certification by Deans of Faculties, results will be released at the direction of the Registrar.

### 5.21 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.

#### 5.21.1 Request for non-publication of results

FORM:	Application for Non-publication of Results
SOURCE:	Examination Office, Gardens Point campus
SUBMIT TO:	Examination Office, Gardens Point campus

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

### 5.22 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.



## 6. Review of grades and academic rulings

FORM:	Application for Review of Grade or Academic Ruling
SOURCE:	Enrolment Office, Kelvin Grove campus; Examination Office, Gardens Point campus; Campus Administration Offices
SUBMIT TO:	Enrolment Office, Kelvin Grove campus; Examination Office, Gardens Point campus; Campus Administration Offices

### 6.1 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 coursework 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.

### 6.2 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 in the first instance contact their campus Administration Office or arrange for the student to have other discussions as deemed appropriate in the circumstances.

If, having received 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.

### 6.3 Application procedure

Applications must be submitted within 14 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.

### 6.4 Notification of outcome

Advice of the outcome of reviews will be conveyed to the student in writing.

### 6.5 Status of students awaiting the outcome of a review

The University will make determinations on reviews 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.

## 7. 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.

### 7.1 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.

### 7.2 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.

### 7.3 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 the 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.

#### **7.4 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 7.3.

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.

## **8. 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.

### **8.1 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.

## **8.2 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.

## **8.3 Appeals 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.

## **8.4 Appeals 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.

## **8.5 Status of students awaiting the outcome of an appeal**

The University will make determinations on 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 appeal, except in special circumstances as may be determined by the Registrar.

## 9. 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.

### 9.1 HECS Payment Options Form

All students are required to lodge the *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 a new *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.

### 9.2 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.

### 9.3 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.

### 9.4 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.

### 9.5 The HECS Notice

Following the census date for a semester, students are provided with the 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.

## **10. Student Guild fee rules**

**10.1 Subject to Rule 10.2, 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.**

### **10.2 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.

### **10.3 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.

### **10.4 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 10.2, 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.

### **10.5 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.

## **11. Miscellaneous student charges**

### **11.1 Guild fees**

Full-time students	\$125
Part-time students	\$ 55
External students	\$ 20

### **11.2 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	\$ 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

### **11.3 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: Credit transfer policies

### 1.1 Policy statement: general principles concerning transfer of credit and combined awards – Technical and Further Education; Training, Employment, Queensland(TAFE.TEQ)/QUT

There is a history of favourable credit transfer arrangements between various TAFE.TEQ and QUT courses. Further, there is a general willingness on the part of TAFE.TEQ and QUT to review courses to identify areas in which advanced standing, transfer of credit, efficient progression from TAFE.TEQ to QUT courses and the development of combined awards might be appropriate. TAFE.TEQ and QUT seek to eliminate unnecessary barriers to student progression, recognise problem areas and seek appropriate solutions and processes so that increased numbers of better educated graduates can be made available to industry.

The following principles form the substance of the agreement between QUT and TAFE.TEQ in this area.

#### Principles

**Note:** These principles apply specifically to credit transfer arrangements and combined awards between TAFE.TEQ associate diploma and diploma courses and QUT degree level courses in related fields.

- (i) **Course development/review:** When developing and/or reviewing subjects with common or closely linked vocational outcomes, TAFE.TEQ and QUT will work in consultation with a view to establishing automatic equivalence. Subjects developed in this way will give TAFE students full QUT exemptions.
- (ii) **Block exemptions:** The awarding of block credits is given a high priority. This allows for appropriate substitution in degree courses without disadvantaging the student's foundation in core discipline subjects. While a normal exemption would comprise 96 credit points (Associate Diploma), in certain circumstances additional credit may be awarded.
- (iii) **Individual subject exemptions:** Where there is a close equivalence between TAFE.TEQ and QUT subjects and/or they have been prepared jointly, then the student will be given credit for individual subjects that fall outside those already credited in any block exemption.
- (iv) **Maximum recognition of previously completed learning:** A student should be given maximum recognition for prior learning. Credit should be given for all appropriate learning experiences.
- (v) **The adoption of flexible constructs for credit exemptions:** Flexible constructs should be adopted to ensure that the combined credit exemptions of subject blocks, individual subjects and recognition of prior learning are not reduced by a pre-determined ceiling. The only limiting factor in such arrangements is standard QUT policy regarding transfer of credit.
- (vi) **Joint use of resources:** Where appropriate and mutually beneficial, maximum utilisation of joint resources (human and physical) will be made in the development and delivery of courses.
- (vii) **Combined awards:** Where joint arrangements could provide more effectively for the flexibility and specialisations sought by industry, the development of combined awards will be encouraged.



- (viii) **New articulation and credit transfer arrangements:** Individuals or groups seeking to initiate any development that may lead to articulation and/or transfer of credit between TAFE.TEQ and QUT are to do so through the appropriate Associate Director (TAFE.TEQ) and Dean of Faculty (QUT).

## 1.2 Articulation of awards

The University considers that it is in the interest of students to facilitate their movement between courses of various types and levels. In developing new courses or revising existing courses, faculties are asked to pay particular attention to achieving close articulation between courses both within the University and between institutions/sectors (eg QUT and TAFE).

Specific articulation and credit transfer arrangements between levels of completed awards in related fields will normally be as follows:

☐ **associate diploma awards**

Upon entry to this award, students will normally gain credit on the basis of the following:

- (i) certificate – 24 credit points (0.5 semester),\* or
- (ii) advanced certificate – 48 credit points (1.0 semester)

☐ **diploma awards**

Upon entry to this award, students will normally gain credit on the basis of the following:

- (i) associate diploma – 144 credit points (3.0 semesters)

☐ **bachelor degree awards**

Upon entry to this award, students will normally gain credit on the basis of the following:

- (i) associate diploma – 96 credit points (2.0 semesters), or
- (ii) diploma – 192 credit points (4.0 semesters)

☐ **graduate diploma awards**

Upon entry to this award, students will normally gain credit on the basis of the following:

- (i) graduate certificate – 48 credit points (1.0 semester)

☐ **two-year master degree awards**

Upon entry to this award, students will normally gain credit on the basis of the following:

- (i) four-year bachelor degree at honours standard – 96 credit points (2.0 semesters), or
- (ii) honours – 96 credit points (2.0 semesters), or
- (iii) graduate diploma – 96 credit points (2.0 semesters)

☐ **professional doctorate awards**

Upon entry to this award, students will normally gain credit on the basis of the following:

- (i) master degree – 96 credit points (2.0 semesters)

☐ **doctor of philosophy awards**

Upon entry to this award, students will normally gain credit on the basis of the following:

- (i) master degree – 48 credit points (1.0 semester)

\* All semester values refer to full-time or equivalent. QUT operates on standard length semesters of 48 credit points.

Specific articulation and credit transfer arrangements between levels of awards in related fields on the basis of incomplete studies will normally be as follows:

☐ master degree awards

Students admitted to a doctoral research award or a professional doctorate award but who either do not qualify to progress to the award or do not wish to proceed may on application be transferred to a master degree award.

☐ graduate diploma awards

In specifically designed master/graduate diploma awards, students may be granted a graduate diploma on the basis of the following:

- (i) master degree by coursework – satisfactory completion of at least 96 credit points (2.0 semesters)

if they either do not qualify or do not wish to proceed to the higher level award.

### 1.3 Faculty arrangements for credit transfer

Course of study on which application for credit is based	Potential credit in QUT course
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#### Faculty of Arts

Bachelor of Arts - Drama major (UQ)	Bachelor of Arts (Drama) (AA21)*
Bachelor of Music (UQ) Bachelor of Music (QCM) Bachelor of Arts - Music (QCM)	Bachelor of Arts (Music) (AA51)*
Bachelor of Creative Arts - Visual Arts (UCSQ) Bachelor of Arts - Visual Arts (QCA)	Bachelor of Arts (Visual Arts) (AA71)*  To assist in the determination of the quantity of credit to be awarded within specific studio areas, presentation of a folio may be required.
Associate Diploma of Arts (TAFE)	Bachelor of Arts (Visual Arts) (AA71) Credit of up to 96 credit points will be granted on an individual basis to apply to the second and third year of study. Successful applicants may be required to undergo the Foundation Year of the course.

#### Faculty of Built Environment and Engineering

CNJ74 Associate Diploma of Applied Science - Architectural Technician (TAFE)	Bachelor of Architecture (AR41) Bachelor of Built Environment (BN30) Block exemption Semesters 1 and 2 – (AR41); Block exemption Semester 1 – (BN30)
CNJ45 Associate Diploma of Applied Science – Building (TAFE)	Bachelor of Applied Science (Construction Management) (CN31) Exemption from subjects: CNB005, CNB006, CNB009, CNB010, CNB103, CNB104, CNB151, CNB154, CNB243, CNB247, CNB253, CNB254, CNB345, CNB405, COB142, MAB297, SVB101

\* 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 4.1.1.

**Course of study on which application for credit is based****Potential credit in QUT course**

Associate Diploma in Civil Engineering (CE21) (QUT)\*

Bachelor of Engineering (Civil) (CE42)

Credit will be granted according to the following:

(The code CE21 means that completion of the Associate Diploma will result in eligibility for exemption from the corresponding subject.)

CE21 completed or

\*\*CET195 Civil Eng. 1

CEB102 Civil Eng.

CE21 completed or

\*\*CET135 Eng. Mech.

CEB184 Eng. Mech. 1

\*\*CET225 Struct. Mech.

CEB185 Eng. Mech. 2

\*\*CET645 Soil Mech.

CEB240 Soil Mech. 1

\*\*CET596 Mat. Spec. and Control or  
CET596 + CET597 or

CEB291 Civil Eng. Mat.

MET141 Mat. (Civil) + CET756 Bldg.  
Const. Prac.

CET605 + CET708 + CET807 or  
CET704 + CET708 + CET606

#CEB305 Const. Plg. and Econ.

CET606 Const. Management + CET704  
Civil Const. Prac. or

#CEB307 Construction Practice

CET807 Const. Management + CET605  
Const. Prac. 1 or

CET808 + CET706 + CET605

CET815 Road Location and Design +  
CET565 Road and Draining Eng.

CEB312 Highway Eng.

\*\*CET435 Concrete Practice

CEB331 Concrete Tech.

\*\*CET775 Public Health Eng.

CEB370 Public Health Eng. 1

CE21 completed

CEB404 Field Trip

\*\*EET790 Computer Prog.

CSB191 Intro. to Computing

\*\*EST219 Geology

ESB519 Geology for Engineers

CE21 completed

MEB111 Dynamics

CE21 completed or MET120 Eng. Drg. 1  
– CET286 Civil Office Practice

MEB121 Eng. Graphics

\*\*MET140 Eng. Materials

MEB133 Materials 1

CE21 completed

MEB171 Intro. to Manufacturing

\*\*CET709 Safety & Ind. Rel.

HRB111 Industrial Management

\*\*SVT306 Eng. Surveying

SVB306 Surveying 1

\* Applicants from other universities who have completed an Associate Diploma may be eligible for exemptions for up to one year of full-time study.

\*\* Must have credit or higher.

# Because of changes to the Associate Diploma in the Construction area, students who have non-standard combinations of subjects should consult the Degree Coordinator. Construction Practice 1A, 2A and 3A are not acceptable.

**Course of study on which application for credit is based****Potential credit in QUT course**

Associate Diploma in Electrical Engineering (EE22) (QUT)

Bachelor of Engineering (Electrical and Computer Engineering) (EE44)

Credit will be granted according to the following:

(The code EE22 means that completion of the Associate Diploma will result in eligibility for exemption from the corresponding subject.)

Two of \*EET111, \*EET211, \*EET100

\*CST390 or \*EET791

EE22 completed

EE22 completed

EE22 completed

EE22 completed

\*EET111

\*CST390 or \*EET791

EE22 completed

\*EET100 or \*EET211

\*EET570 or \*EET870 or \*EET270

\*EET676 or \*EET590

EE22 completed

\*EET570 or \*EET870 or \*EET270

\*EET350 or \*EET642 or \*EET650

EE22 completed

Computer Systems Module completed and \*EET676 or \*EET590

Industrial Systems Module completed and \*EET420 or \*EET522

Power Module completed and \*EET642 or \*EET650

Telecom Module completed and \*EET460 or \*EET560 or \*EET760

EEB101 Circuits & Measurements

CSB191 Introduction to Computing

MEB121 Engineering Graphics

MEB171 Introduction to Manufacturing

CEB184 Engineering Mechanics 1

CEB102 Civil Engineering 1

EEB202 Electromagnetics

CSB291 Introduction to Fortran

MEB111 Dynamics

EEB203 Circuit Analysis

EEB371 Electronic Devices

EEB272 Digital Principles

MEB133 Materials 1

EEB471 Electronics

EEB302 Electrotechnology

Technical Elective

EEB372 Sequential Logic

EEB520 Control Engineering

EEB400 Electrical Power Systems

EEB561 Analogue Communications

\* Must have credit or higher.

**Course of study on which application for credit is based****Potential credit in QUT course**

CNG61 Associate Diploma in Electronic Systems (TAFE)

Bachelor of Engineering (Electrical and Computer Engineering) (EE44)

Credit will be granted according to the following:

(The code CNG61 means that completion of the Associate Diploma will result in eligibility for exemption from the corresponding subject.)

\*ADE005 or \*ADE007

EEB101 Circuits & Measurements

\*ADE002

CSB191 Introduction to Computing

CNG61 completed

MEB121 Engineering Graphics

CNG61 completed

MEB171 Introduction to Manufacturing

CNG61 completed

COB137 English for Technologists

CNG61 completed

CEB102 Civil Engineering 1

\*ADE005 or \*ADE007

EEB203 Circuit Analysis

\*ADE009 or \*ADE011

EEB371 Electronic Devices

\*ADE006 or \*ADE008

EEB272 Digital Principles

CNG61 completed

MEB183 Materials 1

\*ADE016 or \*ADE019

EEB471 Electronics

\*ADE006

EEB372 Sequential Logic

CNG61 completed

COB142 Communication for Engineers

\*ADE010 or \*ADE017

EEB472 Microprocessors

\*ADE023

EEB520 Control Engineering

\*ADE013 or \*ADE021

EEB561 Analogue Communications

CNG61 completed

General Elective

\* *Must have credit or higher.*

## Course of study on which application for credit is based

## Potential credit in QUT course

Associate Diploma in Mechanical Engineering (ME23) (QUT)

Bachelor of Engineering (Mechanical) (ME45)

Credit will be granted according to the following:

(The code ME23 means that completion of the Associate Diploma will result in eligibility for exemption from the corresponding subject.)

ME23 completed or

\*MET680\*\* Machine Elements 2

ME23 completed or

MET111\*\*

ME23 completed or

\*MET120 Engineering Drawing 1

ME23 completed or

\*MET140 Engineering Materials 1

ME23 completed or

\*MET170 Manufacturing Technology

ME23 completed + MET733\*\* or

\*MET433 Engineering Materials 2 +

\*MET733\*\* Industrial Metallurgy

ME23 completed or

\*MET250 + \*MET350 or \*MET200 +

\*MET751

ME23 completed or

\*MET780 + \*MET920 or \*MET580 +

\*MET680

\*MET960\*\* Fluid Power

ME23 completed or

\*MET572 Prod. Plng. & Control +

\*MET971 Industrial Practice

\*MET782\*\*

ME23 completed

ME23 completed or

\*MET210 + \*MET310

ME23 completed or \*MET210

+\*MET310

\*EET500 + \*EET820 or \*EET300 +

\*EET400

EEB101\*\*

ME23 completed

MAB193\*\*

PHB131\*\* or PHB132\*\*

MEB101 Design 1

MEB111 Dynamics

MEB121 Engineering Graphics

MEB133 Materials 1

MEB171 Introduction to Mfg.

MEB230 Materials 2

MEB250 Thermodynamics 1

MEB381 Design 2

MEB660 Fluid Power

MEB670 Industrial Eng. 1

MEB773 Design for Mfg. 1

CEB102 Civil Eng. 1

CEB184 Eng. Mechanics 1

CEB185 Eng. Mechanics 2

EEB202 Electromagnetics

EEB101 Circuits & Measurements

BNB103 General Elective (Group A)

MAB193 Eng. Maths 1

PHB132 Eng. Physics 1A

\* Must have credit or higher.

\*\* Elective.

**Course of study on which application for credit is based****Potential credit in QUT course**

CN649 Certificate in Engineering Preparatory Studies (TAFE)

CN541 Advanced Certificate in Drafting (TAFE) – including successful completion of the five subjects which replace Senior English, Maths and Physics (TGN151, 152, 153, 251, 156); or previous exemption by TAFE from any of the required subjects.

TEG154 Eng. Drawing 1

TEG253 Eng. Drawing 2

TEG156 Materials Science

TEG254 Mechanical Science

TEG255 Engineering Mechanics and

TEG256 Theory of Machines

TEG376 Structural Eng. Principles

TEG313 Structural Eng. Techniques

TEG282 Surveying & Survey Drafting

TEG100 Surveying & Survey Principles

TEG381 Civil Drafting 1

TEG280 Civil Construction & Materials

CAD011 Computer Aided Drafting

TEG382 Civil Drafting 2

TEG377 Structural Drafting 1

TEG205 Civil Construction Materials and

TEG314 Structural Materials

Associate Diploma in Civil Engineering (CE21)

Only upon successful completion of the Certificate will credit be awarded up to a maximum of six exemptions selected from the following:

MET120 Eng. Drawing 1

MET220 Engineering Drawing 2 (See Note 3) or

CET180 Civil Drafting Practice A (See Note 1)

MET140 Eng. Materials (See Note 2)

MET601 Mechanical Plans (See Note 2)

CET135 Engineering Mechanics and

CET255 Structural Mechanics

CET135 Eng. Mechanics and CET255 Structural Mechanics

CET135 Eng. Mechanics

SVT306 Eng. Surveying

SVT306 Eng. Surveying

CET287 Civil Office Practice A (See Note 1)

CET195 Civil Engineering

CET887 Computer Aided Drafting

CET286 Civil Office Practice

CET387 Civil Eng. Drafting A (See Note 1)

CET190 Civil Eng. Materials

**Notes**

1. QUT subjects with 'A' in the name are core subjects for full-time students and are approved electives for part-time students. This means that part-time students with these exemptions have to complete fewer electives at QUT.

2. Engineering Materials and Mechanical Plant are regarded as approved electives for all Associate Diploma students and reduces the number of electives that students have to complete at QUT.

3. Engineering Drawing 2 is regarded as an approved elective in the part-time Associate Diploma and reduces the number of electives that students have to complete at QUT.

4. Students in the Associate Diploma:

- (i) cannot receive exemptions for more than three electives;
- (ii) cannot be exempted from more than half the course (16 subjects full-time, 12 subjects part-time).



**Course of study on which application for credit is based****Potential credit in QUT course**

CN649 Certificate of Engineering  
Preparatory Studies (TAFE)

Associate Diploma in Electrical  
Engineering (EE22)

Only upon successful completion of the  
Certificate will credit be granted on the  
following:

MET101 Engineering Drawing

MET201 Applied Mechanics

MET600 Materials for Electrical Engineers

MET601 Mechanical Plant

2 subjects from 1 major

Elective (Yr. 4, Sem. 1)

**Trade Exemptions**

Associate Diploma in Electrical  
Engineering (EE22)

Credit will be granted according to the  
following:

Electrical Fitter & Mechanic -  
1 yr completed

EET111 Electrical Eng. 1

Radio & TV Mechanic -  
1 yr completed  
2 yrs completed

EET111 Electrical Eng. 1

EET270 Electronics 1

Instrument Fitter -  
1 yr completed  
3 yrs completed

EET111 Electrical Eng. 1

EET420 Control Systems 1

Telecom Technician -  
1 yr completed  
1½ yrs completed

EET111 Electrical Eng. 1

EET270 Electronics 1

After completion of any of above trades.

EET350 Electrical Eng. 3

Successful completion of three 'A' type  
post-trade electronic subjects.

Credit may be granted in EET270  
Electronics 1

CN649 Certificate of Engineering  
Preparatory Studies (TAFE)

Associate Diploma in Mechanical  
Engineering (ME23)

Upon successful completion of the  
Certificate, credit will be granted on the  
following:

TEG154 Eng. Drawing 1

MET120 Eng. Drawing 1

TEG253 Eng. Drawing 2

MET220 Eng. Drawing 2

TEG156 Materials Science

MET140 Eng. Materials 1

TEG254 Mechanical Science

MET200 Mechanical Eng. or MET250  
Applied Heat 1

TEG225 Eng. Mechanics

MET210 Applied Mechanics 1

TEG256 Theory of Machines

MET310 Applied Mechanics 2

**Course of study on which application for credit is based****Potential credit in QUT course**

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**Faculty of Business**

Associate Diploma of Business (TAFE)  
CNJ13 General  
CND71 Accountancy  
CND25 Computing  
CND74 Management  
CND93 Marketing  
CND97 Purchase & Supply  
CND99 Transport Administration  
CNC54 Operations Management  
CNL04 Aboriginal & Torres Strait  
Islander Administration

The Faculty may give exemptions to the extent of 96 credit points 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.

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**Faculty of Education**

Prior relevant studies in the area intended to be researched.

Master of Education (Research) (ED12)

Credit may be granted for  
Stage 1: Preparation

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Bachelor of Education (In-service) (UCCQ)  
Bachelor of Education (In-service) (UCSQ)  
Bachelor of Education (In-service) (GU)  
Bachelor of Educational Studies (UQ) –  
Advanced subjects only

Bachelor of Education (ED26)\*

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Bachelor of Education (ED50) (QUT)

Bachelor of Teaching (ED40)  
Credit for particular core subjects, depending on those completed. Credit for some electives provided a 'cultural elective' has been completed.

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Bachelor of Teaching (ED41) (QUT)

Bachelor of Teaching (ED40)\*

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Associate Diploma in Child Care (TAFE)

Bachelor of Teaching (ED40)  
Completion of one year's study allows for exemption from most elective subjects within the Bachelor of Teaching. Graduates of Associate Diploma receive one year's credit with the possibility of some exemptions from electives.

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\* 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 4.1.1.

**Course of study on which application for credit is based****Potential credit in QUT course**

Early Childhood and Primary courses from other universities

Bachelor of Teaching (ED40 and ED41)

Transfer with full credit allowed after completing one year with some adjustment to practicum requirements.

Non-education courses from QUT, other universities and TAFE

Bachelor of Teaching (ED40 and ED41)

Credit for some electives.

Bachelor of Education (ED50) (QUT)

Bachelor of Teaching (ED41)

Credit for particular core subjects, depending on those completed. Credit for some electives, provided a basic core of curriculum and discipline electives has been completed.

Bachelor of Teaching (ED40) (QUT)

Bachelor of Teaching (ED41)\*

**Faculty of Health**

Diploma of Arts – Fashion (TAFE)  
Associate Diploma in Applied Science – Food Studies (TAFE)  
Associate Diploma in Arts – Fashion (TAFE)  
Associate Diploma in Business – Hospitality (TAFE)

Bachelor of Applied Science (Home Economics) (PU49)

Credit may be granted to a maximum of 96 credit points.

\* 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 4.1.1.

**Course of study on which application for credit is based****Potential credit in QUT course**

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**Faculty of Information Technology**

The information relating to this Faculty is valid for 1992 only.

CND25 Associate Diploma of Business - Computing (TAFE)

Bachelor of Applied Science (Computing) (CS28)

Bachelor of Business (Computing) (IS10)

Bachelor of Business (Information Management) (IS43)

Upon completion of the Associate Diploma, 96 credit points will be awarded. Specific subject exemptions to be determined in Orientation Week.

CNE70 Diploma of Applied Science - Computing (TAFE)

Bachelor of Applied Science (Computing) (CS28)

Upon completion of the Diploma, 180 credit points will be awarded.

Bachelor of Business (Computing) (IS10)

Upon completion of the Diploma, a minimum of 159 credit points will be awarded.

Bachelor of Business (Information Management) (IS43)

Upon completion of the Diploma, a minimum of 114 credit points will be awarded.

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Associate Diploma of Computing (UCCQ)  
Associate Diploma of Business - Computing (TAFE)

Associate Diploma in Business (Computing) (IS08)\*

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**Faculty of Law**

Associate Diploma in Business Management - Justice Administration (TAFE)

Bachelor of Arts (Justice Studies) (JS31)

Upon completion of the Associate Diploma, 144 credit points will be awarded.

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A graduate of any degree course approved by the Dean of the Faculty is eligible to complete the Bachelor of Laws course in three years (six semesters) of full-time study or five years (10 semesters) of part-time study.

Bachelor of Laws (LW31)

Special Bachelor of Laws course for graduates. Exemptions from two non-law subjects and two law electives:

EPB124 Government

AYB217 Introductory Accounting

LWB005 Law Elective

LWB006 Law Elective

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\* 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 4.1.1.

**Course of study on which application for credit is based****Potential credit in QUT course**

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**Faculty of Science**

Associate Diploma of Applied Science (TAFE)  
CN440 Geology  
CN654 Primary Metallurgy  
CN758 Sugar Technology  
CNK82 Hydrology

Bachelor of Applied Science (SC30)  
Bachelor of Applied Science with majors in biology, chemistry, biochemistry, microbiology, geology, mathematics, physics.

Credit may be granted to a maximum of 96 credit points.

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Bachelor level Science course at other recognised institution (partial completion).

Bachelor of Applied Science (SC30)  
Bachelor of Applied Science (Applied Chemistry) (CH32)  
Bachelor of Applied Science (Mathematics) (MA34)

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 of full-time study completed successfully, up to a maximum of 192 credit points.

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Associate Diploma in Science from a recognised institution (successful completion of course).

Bachelor of Applied Science (SC30)  
Bachelor of Applied Science (Applied Chemistry) (CH32)  
Bachelor of Applied Science (Mathematics) (MA34)

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.

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**Legend**

GU	Griffith University
QCA	Queensland College of Art
QCM	Queensland Conservatorium of Music
QUT	Queensland University of Technology
TAFE	Technical and Further Education
UCCQ	University College of Central Queensland
UCSQ	University College of Southern Queensland
UQ	University of Queensland

**TABLE 2: Eligibility for graduation - Limits on grades of 3****Faculty of Arts**

Master of Arts (Drama)	0
Master of Arts (Visual Arts)	0
Graduate Diploma in Social Science (Counselling)	1
Bachelor of Arts (Honours) (Dance, Drama, Visual Arts)	0
Bachelor of Arts (Dance)	3
Bachelor of Arts (Drama)	3
Bachelor of Arts (Music)	3
Bachelor of Arts (Visual Arts)	3
Associate Diploma in Arts (Dance)	1

**Faculty of Built Environment and Engineering**

All courses	12% of the total course credit points
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**Faculty of Business**

All courses	12% of the total course credit points
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**Faculty of Education**

Master of Education	0
Master of Education (Research)	0
Graduate Diploma in Education	1
Graduate Diploma in Education (Curriculum)	1
Graduate Diploma in Education (Computer Education)	1
Graduate Diploma in Education (Early Childhood)	1
Graduate Diploma in Education (Resource Teaching)	1
Graduate Diploma in Education (Teacher-Librarianship)	-
Bachelor of Education (In-service)	1
Bachelor of Education (Secondary)	3
Bachelor of Teaching (Early Childhood, Primary)	3
Diploma in Education (Secondary)	3

**Faculty of Health**

Graduate Diploma in Health Science (Health Education)	1
Bachelor of Applied Science (Home Economics)	3
All other courses	12% of the total course credit points

**Faculty of Information Technology**

Graduate Diploma in Business (Information Systems)	1
Associate Diploma in Business (Computing)	2
All other courses	12% of the total course credit points

**Faculty of Law**

Associate Diploma in Business (Court and Parliamentary Reporting)	2
All other courses	12% of the total course credit points

**Faculty of Science**

All courses	12% of the total course credit points
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**Interfaculty Courses**

All courses	12% of the total course credit points
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**TABLE 3: Exclusion - Designated subjects**

		Credit Points
<b>FACULTY OF ARTS</b>		
<b>Bachelor of Arts (Music)</b>		
AAB500	Chief Practical Study 1	16
AAB501	Chief Practical Study 2	16
AAB502	Chief Practical Study 3	16
<b>Bachelor of Arts (Visual Arts)</b>		
AAB702	Foundation Media Study 1	24
AAB703	Foundation Media Study 2	36
AAB707	Advanced Media Study 1	24
AAB708	Advanced Media Study 2	24
AAB709	Advanced Media Study 3	30
AAB710	Advanced Media Study 4	24
<b>Bachelor of Social Science (Human Services)</b>		
SSB026	Fieldwork Practice 1	-
SSB036	Fieldwork Practice 2	-
<b>Associate Diploma in Arts (Dance)</b>		
AAX107	Dance Techniques 1	16
AAX108	Dance Techniques 2	16
AAX109	Dance Techniques 3	16
AAX110	Dance Techniques 4	16
AAX111	Repertoire and Practice Period 1	12
AAX112	Repertoire and Practice Period 2	16
AAX113	Repertoire and Practice Period 3	16
AAX114	Repertoire and Practice Period 4	16
<b>FACULTY OF EDUCATION</b>		
<b>Graduate Diploma in Education (Early Childhood Teaching)</b>		
EDP410	Practice Teaching 1	8
EDP411	Practice Teaching 2	8
<b>Graduate Diploma in Education (Primary Teaching)</b>		
EDP412	Practice Teaching 1	8
EDP413	Practice Teaching 2	8
<b>Graduate Diploma in Education (Secondary Teaching)</b>		
EDP450	Teaching Practice A	6
EDP451	Teaching Practice B	6
<b>Bachelor of Education (Secondary)</b>		
EDB391	Integrated Field Studies 1A	20
EDB392	Integrated Field Studies 1B	20
EDB301	Practice Teaching 1	8
EDB302	Practice Teaching 2	12
EDB303	Practice Teaching 3	8
<b>Bachelor of Teaching (Early Childhood)</b>		
EDB151	Teaching Strategies 1: Before School Settings	12
EDB152	Teaching Strategies 2: Y1-3	12
EDB153	Teaching Strategies 3	12
EDB154	Teaching Strategies 4: CC	12
EDB155	Teaching Strategies 4: K-P	12

EDB156	Teaching Strategies 4: 1-3	12
EDB157	Teaching Strategies 5	12

### **Bachelor of Teaching (Primary)**

EDB251	Practice Teaching 1	8
EDB252	Practice Teaching 2	8
EDB253	Practice Teaching 3	8
EDB254	Practice Teaching 4	12
EDB255	Practice Teaching 5	12

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# POLICY STATEMENTS

## Assessment Provisions for Students with Disabilities

Students with permanent or temporary disabilities have the right to alternative arrangements, consistent with a commitment to academic excellence and equality of opportunity, to enable them to fulfil their course requirements.

### Some alternatives

Disabilities may prevent or inhibit students from completing certain subject requirements, such as performing particular skills, writing assignments, test papers or examinations, or executing physical or laboratory tasks.

Suggested variations in assessment techniques for students with disabilities are listed below. Issues of validity, reliability and equity, together with ease of marking, should be taken into account when adopting such alternatives.

### Variations

### Examples

#### Mode

Questioning modality

Brailled or audiotaped questions, viva voce testing, signing interpreter etc.

Response modality

Oral rather than written answers-recorded on tape, viva voce, signing etc.

#### Context

Time

Extended period to answer examination, respite breaks during an examination, extra time to complete assignments, deferment without penalty etc.

Equipment

Tape recorder, braille, print magnifier electric typewriter, special desk for wheelchair, adapted laboratory equipment etc.

Separate examination room

Special equipment  
Personal assistance (to avoid disturbing others)

Personal assistance

Amanuensis, reader, interpreter, aide

Such alternative approaches to assessment need to be carefully considered before implementation to ensure undue over- or under-compensation does not occur. A separate brochure, *Assessment Procedures for Students with Disabilities*, explaining the advantages and disadvantages of such alternatives is available from campus counsellors.

### Responsibilities

Students should make their needs known to relevant lecturers early in the semester.

To support their request for special consideration students may be required to present a certificate from a medical or other specialist practitioner (e.g. psychologist) which substantiates the nature of the special need. Appropriate documentation can be sighted and supported by a Counsellor who provides referral to the relevant course coordinator, faculty or school.

Alternative forms of assessment are usually negotiated between student and lecturer, but advice can be sought from the course coordinator or counselling service as needed.

Lecturers or course coordinators should notify the Student Administration section of any special examination requirements, including the level of expertise allowable in any assistant (amanuensis, interpreter, aide) who may be required, so that the student is neither advantaged nor disadvantaged in comparison with other students. Students are to be given adequate lead time prior to an assessment item to gain working familiarity with such assistants. Lecturers should also notify the library of particular equipment needs.

For centrally organised assessment items responsibility for the conduct and administration of alternative assessment provisions for students with disabilities rests with Student Administration. Unless negotiated otherwise by lecturer and student, responsibility for employing an amanuensis or interpreter as well as providing special equipment, settings and supervision will rest with the Examination Officer. Costs of employing supervisors, personal assistants and providing examination materials (e.g. blank audio cassettes; brailled examination papers) are to be borne by the Student Administration section. A record of requests and adaptations made will be retained for review purposes.

For other assessment, current responsibility primarily rests with faculties and schools. *The scope and funding of support services for such assessment is currently under review.*

## 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.

\* *Applicable to students who complete courses at the end of semester 1, 1991 and subsequently.*

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.

# 3

## Academic Programs

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# **UNIVERSITY-WIDE AND INTERFACULTY COURSES**

**INTERFACULTY  
COURSES**

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# UNIVERSITY-WIDE AND INTERFACULTY COURSES

## Course Structures

### ■ Doctor of Philosophy (IF49)

#### Introduction

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

#### 1. General Conditions

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

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

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

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

- ☐ a certificate of satisfactory completion of the candidate's approved course of study signed by the Principal Supervisor
- ☐ a declaration signed by the candidate that he/she has not been a candidate for another tertiary award without permission of the Research Management Committee
- ☐ a certificate recommending acceptance of the thesis in fulfilment of the conditions for the award of the PhD degree signed by each member of the faculty panel that recommended examination of the thesis and the Examination Committee which accepted it
- ☐ an application for conferral of the degree, and
- ☐ four copies of the thesis in the required format.

#### 2. Registration

2.1.1. A candidate may register either as a full-time or as a part-time student (see also Section 4). To be registered as a full-time student, a candidate must be able to commit to the course not less than three-quarters of a normal working week, averaged over each year of candidacy. Such a student may not devote more than 300 hours annually to teaching activities, including preparation and marking.

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

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

2.1.4. A sponsoring establishment is required to certify annually by 31 December that all registered 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.

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

3.3 Coursework at doctoral level demands a capacity for critical analysis and a specialisation of research interests not normally appropriate for an undergraduate program. Such coursework may be conducted in a number of ways:

- ☐ as advanced lecture courses
- ☐ as seminars in which faculty and students present critical studies of selected problems within the subject field
- ☐ as independent study or reading courses, or
- ☐ as research projects conducted under faculty supervision.

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

3.4 Coursework will occupy not more than 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, 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 30 months before submitting the thesis for examination. The corresponding period in the case of a part-time candidate shall be 42 months. In special cases the Research Management Committee may approve a shorter period.

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

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

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

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

#### **5. Transfer of Registration**

5.1. 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 12 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 24 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 candidate. Each progress report is to be sighted by the candidate and submitted through the head of school.

## **7. Place and Conditions of Work**

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

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

## **8. Thesis**

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

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

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

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

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

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

## **9. Examinations**

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

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

- ☐ the work described in the thesis, and
- ☐ the field of study in which the investigation lies.

The faculty shall advertise or otherwise arrange for the oral examination which should be attended by all available members of the Examination Committee. The examination shall be conducted by a panel of three nominated by the faculty and chaired by the Principal Supervisor. Sufficient copies of the thesis, bound in temporary cover, must be presented to the Chairperson of the faculty examining panel so as to provide a copy for each member of the panel and each attending member of the Examination Committee. The faculty examining panel shall use the prescribed form when advising the faculty and the Research Management Committee that the thesis meets with their approval.

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

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

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

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

- 9.7. The candidate's Principal Supervisor shall forward arrangements for examination of the thesis through the faculty to the Research Management Committee for approval.
- 9.8. In exceptional circumstances, the Research Management Committee may act directly to make suitable arrangements for the examination of a candidate, including the selection of examiners.
- 9.9 Normally, examiners must agree to read and report upon the thesis within two months of its receipt.
- 9.10 The external examiners must be independent of both the University and the sponsoring establishment, if any.
- 9.11 External examiners should normally have substantial research experience in the area under investigation. 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:
- (i) that the degree be awarded, with or without minor modifications to the thesis, or
  - (ii) that the candidate be re-examined, or
  - (iii) that the degree not be awarded.
- 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 fulfillment 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:
- (i) not award the degree, or
  - (ii) accept a majority recommendation with or without the advice of a further external examiner.
- 9.17 A candidate who fails to satisfy the Research Management Committee at the first attempt may, on the recommendation of the examiners and with the approval of the Research Management Committee, be re-examined not more than once. Application must be made to the Research Management Committee for approval of the re-examination arrangements.
- 9.18 Re-examination shall take place within 12 months from the date on which the candidate is advised in writing of such re-examination. The Research Management Committee may, on application by the candidate and supported by the Principal Supervisor, approve an extension of this period.
- 9.19 The examiners must give the candidate guidance on the deficiencies identified by the first examination.

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

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

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

## ■ Master of Applied Science (Research)

This research program is available in:

- ☐ the Faculty of Built Environment and Engineering (BN71)
- ☐ the Faculty of Health (HL84)
- ☐ the Faculty of Information Technology (IT84).

For the corresponding program in the Faculty of Science, refer to the description of Master of Applied Science (SC80) 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 the 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.

## 2. Registration

2.1 Applications shall be accepted subject to the availability of facilities and supervision.

2.2 Applications may be lodged with the Registrar at any time.

2.3 The minimum academic qualifications for admission to a program leading to a Master of Applied Science (Research), shall be:

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

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

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

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

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

#### **5. Supervision**

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

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

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

5.4 At the end of each six-month period a student shall submit a report on the work undertaken to the Principal Supervisor and the Principal Supervisor shall submit a report to the academic board on the student's work. This report shall be seen by the 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 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 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 (IF69)**

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)
<b>Year 1, Semester 1</b>				
HRP108	Quality System Management	6	3	1-7
HRP109	Managing Communications for Quality	6	3	8-14
MAP111	Statistical Methods in Quality	6	3	8-14
MEP173	Quality Planning	6	3	1-7
<b>Year 1, Semester 2</b>				
FNP101	Quality Cost Analysis	6	3	8-14
HRP102	Human Factors in Quality	6	3	8-14
MAP121	Statistical Process Control	6	3	1-7
MEP273	Quality Measurement & Testing	6	3	1-7
<b>Year 2, Semester 1</b>				
EPP101	Economic Analysis	6	3	1-7
ISP380	Quality Informations Systems	6	3	8-14
MAP211	Sampling Procedures	6	3	1-7
MEP371	Reliability & Maintainability	6	3	8-14
<b>Year 2, Semester 2</b>				
MAP221	Quality Problem Solving Techniques	8	2	1-14
MEP473	Quality Systems & Assessment	8	2	1-14
IFP222	Project	8	2	1-14

## ■ Honours Degrees

### 1. General

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

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

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

1.4 Each honours program will be assigned a separate quota.

### 2. Admission to an honours degree

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

2.2 In order to be considered eligible for admission, students should have attained a grade point average of at least 5 or an average grade of credit over the entire basic course, including grades of at least credit in all subjects directly relevant to, or specified as prerequisite for, the proposed honours program.

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

### 3. Duration

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

### 4. Program requirements

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

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

### 5. Unsatisfactory progress

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

5.2 Unsatisfactory progress consists of:

- ☐ receiving a grade of less than 4 (or 'Satisfactory', where applicable) in one subject of the coursework component;
- ☐ failure to make sufficient progress with the project or dissertation component, in the opinion of the dean.

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

### 6. Assessment

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

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

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

### 7. Determination of level of honours awards

7.1 The faculty academic board, on advice from the school, will determine the level of honours to be awarded.

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

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

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

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

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

## ■ Bachelor of Engineering (Electronics)/Bachelor of Applied Science (Computing) (IF22)

**Location:** Gardens Point campus

**Course Duration:** 5 years full-time

**Total Credit Points:** 467

**Standard Credit Points/Full-Time Semester:** 46.7 (average)

**Course Coordinators:** Dr Dayal Abeyasekere, Mr Mike Roggenkamp

### Professional Recognition

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

### Vacation Practice Requirements in the Electronic Systems Engineering Component

All students shall have engaged in a total of at least 15 weeks in employment approved by the Coordinator of the Electronic Systems Engineering component of the course, in order to satisfy vacation practice requirements. Students shall submit to the relevant Course Coordinator, a description of their work experience, on the appropriate industrial experience record form duly signed by the student and the employer, in order to gain approval for their employment periods.

### Full-Time Course Structure

		Credit Points	Contact Hrs/Wk
<b>Year 1, Semester 1</b>			
CSB100	Introduction to Computer Science	9	3
EEB101	Circuits & Measurements	7	3
EEB202	Electromagnetics	6	3
ISB102	Representation of Information	9	3
ITB613	Practice 1A (IF22)	6	2
MAB193	Engineering Mathematics 1*	6	3
PHB132	Engineering Physics 1A	6	3
<b>Year 1, Semester 2</b>			
COB137	English for Technologists	6	3
CSB101	Computer Systems 1	9	3
CSB110	Programming Principles	9	3

\* Subject extends over two semesters.



EEB203	Circuit Analysis	5	3
EEB272	Digital Principles	3	1.5
EEB901	Industrial Experience 1		5 weeks
ITB630	Practice 1B (IF22)	6	2
ITB680	Practice 2B (IF22)	6	2
MAB193	Engineering Mathematics 1*	6	3
PHB232	Engineering Physics 2A	6	3

### Year 2, Semester 1

MAB493	Engineering Mathematics 2*	6	3
CSB200	Foundations of Computing 1	9	3
EEB302	Electrotechnology	6	3
EEB303	Network Theory 1	7	3
EEB361	Signals & Systems	7	3
EEB371	Electronic Devices	5	3
EEB372	Sequential Logic	7	3
ITB625	Practice 3A (IF22)	6	2

### Year 2, Semester 2

CSB210	Foundations of Computing 2	9	3
CSB213	Scientific Applications	9	3
EEB401	Network Theory 2	6	3
EEB471	Electronics	7	3
EEB474	Microprocessors	6	3
EEB561	Analogue Communications	6	3
EEB902	Industrial Experience 2		5 weeks
ITB675	Practice 4A (IF22)	6	2
MAB493	Engineering Mathematics 2*	6	3

### Year 3, Semester 1

CSB201	Computer Systems 2	9	3
EEB473	Integrated Circuits	6	3
EEB520	Control Engineering	6	3
EEB573	Industrial Electronics	6	3
EEB587	Design 1	6	3
EEB591	Systems Programming Languages	6	3
MAB893	Engineering Mathematics 3	6	3

### Year 3, Semester 2

CSB212	Languages & Language Processing	9	3
CSB301	Operating Systems	9	3
EEB602	Signal Processing	6	3
EEB620	Control Systems Analysis	6	3
EEB661	Information Theory & Noise	6	3
EEB903	Industrial Experience 3		5 weeks
ITB681	Practice 4B (IF22)	6	2
MAB894	Engineering Mathematics 4	6	3

### Year 4, Semester 1

CSB302	Software Engineering	9	3
EEB788	Design 2	8	3
EEB821	Production Technology & Quality	6	3
EEB967	Digital Communications	6	3
EEB968	Digital Signal Processing	7	3
EEB971	Applied Electronics	6	3

### Year 4, Semester 2

CSB311	Advanced Computer Architectures	9	3
EEB430	Engineering Fields	6	3
EEB601	Realtime Operating Systems	6	3
EEB621	Advanced Control Systems	6	3

\* Subject extends over two semesters.

EEB820	Engineering Management	8	3
EEB887	Design 3	6	3

### Year 5, Semester 1

CSB980	Project*	15	
	OR		
EEB789	Project*	15	
EEB562	Transmission & Propagation	6	3
	ONE Computing Elective Subject	9	3
	ONE Electrical Elective Subject	7	3

### Year 5, Semester 2

CSB980	Project*	15	
	OR		
EEB789	Project*	15	
EEB888	Design 4	10	3
	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
MAB895	Introduction to Cryptology	7	4
MAB896	Error Control of Data Compression Techniques	7	4
MAB982	Advanced Topics in Cryptology	12	4

### Computing Electives

CSB319	Special Studies	9	3
CSB320	Special Studies	9	3
CSB321	Graphics	9	3
CSB324	Artificial Intelligence	9	3
CSB325	Expert Systems	9	3
CSB326	Systems Programming	9	3
ISB201	Information Systems Analysis & Design 1	9	3
ISB202	Database & Procedural Languages	9	3
ISB210	Information Systems Analysis & Design 2	9	3
ITB503	Data Security	9	3

**Note:** Any advanced subject not previously completed in either the Electrical and Computer Engineering or Computing Science degree courses may be studied as an elective.

## ■ Bachelor of Business (Accountancy)/Bachelor of Laws (IF31)

**Location:** Gardens Point campus

**Course Duration:** 5 years full-time

**Total Credit Points:** 562

**Standard Credit Points/Full-Time Semester:** 56.2 (average)

### Course Coordinators:

Business – Professor Lew Edwards

Law – Ms Gillian Nisbet

\* Subject extends over two semesters.

## Professional recognition

The combined Accountancy/Law degree satisfies the academic requirements of the Institute of Chartered Accountants in Australia, the Australian Society of Accountants and the Public Accountants Registration Board of Queensland. The course also satisfies the requirements of the Solicitors' Board and the Barristers' Board of Queensland.

### Full-Time Course Structure

		Credit Points	Contact Hrs/Wk
<b>Year 1, Semester 1</b>			
AYB110	Accounting	12	4
EPB150	Microeconomics	12	3
LWB101	Introduction to Law*	12	3
LWB104	Legal Research & Writing 1*	4	1
MAB173	Quantitative Methods	12	3
<b>Year 1, Semester 2</b>			
AYB111	Financial Accounting	12	4
EPB110	Business Statistics	12	3
ISB892	Business Computing	12	4
LWB101	Introduction to Law*	12	3
LWB104	Legal Research & Writing 1*	4	1
<b>Year 2, Semester 1</b>			
AYB101	Computerised Accounting Systems	12	4
AYB112	Company Accounting	12	4
EPB140	Macroeconomics	12	3
LWB102	Law of Contract*	12	3
LWB103	Torts*	12	3
<b>Year 2, Semester 2</b>			
BSB102	Management & Organisation	12	3
FNB111	Finance 1	12	4
FNB123	Managerial Accounting 1	12	4
LWB102	Law of Contract*	12	3
LWB103	Torts*	12	3
<b>Year 3, Semester 1</b>			
AYB210	Auditing	12	3
FNB112	Finance 2	12	4
FNB124	Managerial Accounting 2	12	4
LWB202	Criminal Law & Procedure*	12	3
LWB203	Constitutional Law*	12	3
<b>Year 3, Semester 2</b>			
AYB113	Accounting Theory & Applications	12	4
	Accounting Elective Subject	12	
LWB202	Criminal Law & Procedure*	12	3
LWB203	Constitutional Law*	12	3
	One Law Elective Subject	8-12	2-3
<b>Year 4, Semester 1</b>			
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 2*	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 2*	4	1

**Note:** In second semester of the final year of their course, all BBus (Accy)/LLB students must complete a special course of six hours of classes in Insolvency Law conducted by the Faculty of Law.

### Electives

The offering of elective subjects in any semester depends 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 Business (Computing)/Bachelor of Laws (IF32)

**Location:** Gardens Point campus

**Course Duration:** 5 years full-time

**Total Credit Points:** 561

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

### Course Coordinators:

Information Technology – Mr Bob Smyth

Laws – Mr John Pike

### 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 as a barrister or solicitor.

\* 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
ISB101	Application Systems	9	3
ISB102	Representation of Information	9	3
ITB603	Practice 1 (IT32)	12	4
MAB172	Quantitative Methods 1B	9	3

**Year 1, Semester 2**

COB135	Professional Communication	9	2
CSB101	Computer Systems 1	9	3
CSB110	Programming Principles	9	3
ISB201	Information Systems Analysis & Design 1	9	3
ITB653	Practice 2 (IT32)	12	4

**Year 2, Semester 1**

ISB202	Database & Procedural Languages	9	3
ITB501	Data Communications	9	3
ITB601	Practice 3 (IS10)	12	4
LWB101	Introduction to Law*	12	3
LWB102	Law of Contract*	12	3
LWB104	Legal Research & Writing 1*	4	1

**Year 2, Semester 2**

ISB210	Information Systems Analysis & Design 2	9	3
ISB302	Database Management	9	3
ITB651	Practice 4 (IS10)	12	4
LWB101	Introduction to Law*	12	3
LWB102	Law of Contract*	12	3
LWB104	Legal Research & Writing I*	4	1

**Year 3, Semester 1**

ISB301	Advanced Information Systems	9	3
ISB304	Project Work	12	-
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

**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

\* Subject extends over two semesters.

INTERFACULTY  
COURSES

**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 2*	4	1

**Year 5, Semester 2**

LWB401	Company Law & Partnership*	12	3
LWB403	Taxation Law*	12	3
LWB409	Professional Conduct (5 weeks)	2	2
LWB414	Drafting & Legal Transactions*	8	2
LWB415	Legal Research & Writing 2*	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 (Manufacturing Systems)/Bachelor of Business (Marketing) (IF53)\***

**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 Andre 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 15 weeks in employment approved by the Course Coordinator to satisfy the industrial experience 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.

**Full-Time Course Structure**

		<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
<b>Year 1, Semester 1</b>			
CEB184	Engineering Mechanics 1	7	3
COB135	Professional Communication	12	3
CSB191	Introduction to Computing	4	2

\* *Subject to approval.*

MAB193	Engineering Mathematics 1*	6	3
MEB173	Manufacturing Practice	7	3
MKB140	Principles of Marketing	12	3
PHB132	Engineering Physics 1A	6	3
<b>Year 1, Semester 2</b>			
BSB102	Management & Organisation	12	3
CEB185	Engineering Mechanics 2	7	3
CSB291	Introduction to FORTRAN	4	2
EPB109	Business Methodology	12	3
MAB193	Engineering Mathematics 1*	6	3
MEB111	Dynamics	7	3
MEB133	Materials 1	6	3
MEB270	Industrial Experience 1		5 weeks
<b>Year 2, Semester 1</b>			
ALB110	Business Law	12	3
EPB116	Economics Principles	12	3
MAB493	Engineering Mathematics 2*	6	3
MEB121	Engineering Graphics	6	3
MEB230	Materials 2	6	3
MEB250	Thermodynamics 1	6	3
MEB313	Mechanics 1	6	3
<b>Year 2, Semester 2</b>			
AYB100	Accounting for Managers	12	3
MAB493	Engineering Mathematics 2*	6	3
MEB101	Design 1	8	3
MEB231	Materials 3	6	3
MEB251	Thermodynamics 2	6	3
MEB470	Industrial Experience 2		5 weeks
MEB471	Manufacturing Engineering 1	6	3
MKB142	Consumer Behaviour	12	3
<b>Year 3, Semester 1</b>			
EEB101	Circuits & Measurements	7	3
HRB116	Innovation and Entrepreneurship	12	3
MEB361	Fluids 1	6	3
MEB381	Design 2	6	3
MEB510	Noise & Vibrations	7	3
MEB571	Manufacturing Engineering 2	6	3
MKB141	Marketing Management	12	3
<b>Year 3, Semester 2</b>			
EEB202	Electromagnetics	6	3
HRB131	Personnel Management & Industrial Relations	12	3
MEB462	Fluids 2	6	3
MEB483	Design 3	7	3
MEB600	Industrial Experience 3		5 weeks
MEB670	Industrial Engineering 1	6	3
MEB673	Manufacturing Engineering 3	7	3
MKB146	Services Marketing	12	3
<b>Year 4, Semester 1</b>			
EEB372	Sequential Logic	7	3
FNB111	Finance 1	12	4
ITB501	Data Communication	9	3
MEB463	Tribology	6	3
MEB771	Industrial Engineering 2	6	3
MEB773	Design for Manufacturing 1	7	3
MKB151	Marketing Research	12	3

\* Subject extends over two semesters.

**Year 4, Semester 2**

EEB474	Microprocessors	6	3
EEB520	Control Engineering	6	3
FNB120	International Finance	12	3
MEB660	Fluid Power	6	3
MEB974	Design for Manufacturing 2	7	3
MEB976	Computer Integrated Manufacturing	7	3
MKB148	Marketing Decision Making	12	3

**Year 5, Semester 1**

CSB324	Artificial Intelligence	9	3
EEB591	Systems Programming Languages	6	3
MEB900	Manufacturing Project*	12	3
MEB977	Computer Control of Manufacturing Systems	7	3
MKB143	Export Management	12	3
MKB149	International Marketing	12	3

**Year 5, Semester 2**

CSB325	Expert Systems	9	3
MEB900	Manufacturing Project*	12	3
MEB975	Design of Manufacturing Systems	7	3
MEB978	Manufacturing Systems Engineering	7	3
MKB155	Strategic Marketing	12	3
HRB135	Small Business Management	12	3
	OR		
MKB153	Professional Marketing Practice	12	3

## ■ Bachelor of Applied Science (Surveying)/Bachelor of Business (Information Management) (IF51)

**Location:** Gardens Point campus

**Course Duration:** 4.5 years full-time

**Total Credit Points:** 447

**Standard Credit Points/Full-Time Semester:** 49.67 (average)

**Course Coordinators:** Mr Jim Glasscock, 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.

**Full-Time Course Structure**

		<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
<b>Year 1, Semester 1</b>			
CSB100	Introduction to Computer Science	9	3
ISB102	Representation of Information	9	3
ISB113	Principles of Information Management	9	3
ITB603	Practice 1 (IT32)	12	4
MAB199	Survey Mathematics 1	12	6
SVB111	Data Presentation 1	6	3

\* Subject extends over two semesters.



**Year 1, Semester 2**

AYB104	Principles of Accounting	9	3
CSB101	Computer Systems 1	9	3
CSB110	Programming Principles	9	3
ITB653	Practice 2 (IT32)	12	4
MAB495	Survey Mathematics 2	12	6
MAB499	Basic Statistics for Surveyors	5	2

**Year 2, Semester 1**

ISB201	Information Systems Analysis & Design 1	9	3
ISB203	Advanced Data Base	9	3
ITB602	Practice 3 (IS43)	12	4
SVB121	Land Surveying 1	13	6
PHB170	Physics for Surveyors	12	6

**Year 2, Semester 2**

ISB214	The Information Resource	9	3
ITB501	Data Communications	9	3
ITB652	Practice 4 (IS43)	12	4
SVB212	Data Presentation 2A	2	1
SVB226	Land Surveying 2	13	6
SVB270	Land Administration 1	6	3

**Year 3, Semester 1**

CSB321	Graphics	9	3
SVB311	Data Presentation 3	5	3
SVB331	Observations & Adjustments 1	4	2
SVB352	Land Studies A*	6	3
SVB393	Land Surveying 3	10	5
SVB573	Land Administration 3	6	3

**Year 3, Semester 2**

ISB318	Strategic Information Management	9	3
SSB916	Applied Cognitive Psychology	9	2
SVB343	Photogrammetry 1	6	3
SVB430	Land Surveying 4	9	4
SVB431	Observations & Adjustments 2	4	2
SVB442	Geodetic Computations	9	4
SVB352	Land Studies A*	6	3

**Year 4, Semester 1**

COB135	Professional Communication	9	3
EPB169	Economics of Information	9	2
ISB301	Advanced Information Systems	9	3
MAB795	Survey Mathematics 3	6	3
SVB443	Photogrammetry 2	11	6

**Year 4, Semester 2**

IFB880	Project*	12	3
ISB314	Information Systems Management	9	3
SVB412	Cartographic Practice	5	3
SVB473	Land Information Systems 1	5	3
SVB636	Land Surveying 6	6	3
SVB682	Seminar 2	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 2	4	2
SVB535	Land Surveying 5	5	3

\* Subject extends over two semesters.

SVB551	Land Valuation	6	3
SVB563	Land Information Systems 2	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:

		<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
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 5	5	3

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

**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.

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 NOTE program. Students also undertake two or three subjects from the first year of the course to which entry is sought.

		<b>Credit Points</b>
CHS200	Chemistry	6
PHS021	Physics	6
MAS090	Mathematics (a full year subject)	12
	OR	
MAS092	Mathematics A (a single semester subject)	6
INB001	Computing Practice (NOTE) 1	6
INB002	Computing Practice (NOTE) 2	6

# FACULTY OF ARTS

# Courses

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## Course Structures

### ■ Master of Arts (Drama) (AA22), Master of Arts (Visual Arts) (AA72)

**Location:** Kelvin Grove campus

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

**Total Credit Points:** 192

**Standard Credit Points/Full-Time Semester:** 48

**Course Coordinator:** Mr Brad Haseman (Drama), Ms Elizabeth Ruinard (Visual Arts)

#### 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.

#### MASTER OF ARTS (DRAMA)

Course Structure		Credit Points	Contact Hrs/Wk
Core Subjects			
<b>Semesters 1 and 2</b>			
AAN004	Graduate Seminar	12	3
<b>Semester 1</b>			
AAN003	Aesthetic Codes in Contemporary Society	12	3
<b>Semester 2</b>			
AAN001	Arts Research Methods 1	12	3

#### Research Project

The Research Project may be undertaken as a 48, 96 or 144 credit point project subject with the approval of the Course Coordinator.

#### Electives

Details of elective subjects being offered are available from the Course Coordinator. Students normally undertake 48 credit points in electives. Depending on the nature of the Research Project electives may be varied to 96 credit points or no elective studies.

## MASTER OF ARTS (VISUAL ARTS)

Course Structure		Credit Points	Contact Hrs/Wk
<b>Semesters 1 and 2</b>			
AAN004	Graduate Seminar	12	3
<b>Semester 1</b>			
AAN003	Aesthetic Codes in Contemporary Society	12	3
<b>Semester 2</b>			
AAN001	Arts Research Methods 1	12	3

### Research Project

The Research Project may be undertaken as a 96 or 144 credit point project subject with the approval of the Course Coordinator.

Details of elective subjects being offered are available from the Course Coordinator. Students normally undertake 48 credit points in electives. Depending on the nature of the Research Project electives may be varied to 96 credit points or no elective studies.

## ■ Graduate Diploma of Social Science (Counselling) (SS10)

**Location:** Carseldine campus

**Course Duration:** 2 years part-time

**Total Credit Points:** 96

**Standard Credit Points/Full-Time Semester:** 48

**Course Coordinator:** Mr Glen Guy

### 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;
- (ii) relevant work experience; and
- (iii) 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 24 hours work in each practicum is required during the semester in which the practicum is scheduled.

Course Structure		Credit Points	Contact Hrs/Wk
<b>Year 1, Semester 1</b>			
SSP000	Interpersonal Relationships in Counselling	12	3
SSP001	Theory & Practice of Counselling 1	12	3
<b>Year 1, Semester 2</b>			
SSP003	Counselling & Human Development	8	3
SSP004	Theory & Practice of Counselling 2	12	3

**Year 2, Semester 1**

SSP005	Practicum	8	-
SSP006	Counselling: A Sociological Perspective	8	3
SSP007	Theory & Practice of Counselling 3	12	3

**Year 2, Semester 2**

SSP016	Advanced Practicum	8	-
Elective	Select from List	8	
Elective	Select from List	8	

**ELECTIVE LIST**

SSP009	Career Guidance & Counselling	8	3
SSP012	The Counsellor & the Organisation	8	3
SSP013	Independent Study	8	3
SSP014	Family Therapy 1	8	3
SSP017	Counselling in Groups	8	3

**■ Bachelor of Arts (Honours) (Drama or Visual Arts) (AA40)****Location:** Kelvin Grove campus**Course Duration:** 1 year full-time**Total Credit Points:** 96**Standard Credit Points/Full-Time Semester:** 80

For regulations regarding the Honours program consult the University-wide and Interfaculty Courses section of this Handbook.

**BACHELOR OF ARTS (HONOURS) (DRAMA)**

<b>Course Structure</b>		<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
<b>Semesters 1 and 2</b>			
AAB001	Research Project	48	-
<b>Semester 1</b>			
AAN200	Dramaturgy	12	3
AAN201	Contemporary Australian Playwrights	12	3
AAN202	Textual Analysis	12	3
<b>Semester 2</b>			
AAN004	Graduate Seminar	12	3

**BACHELOR OF ARTS (HONOURS) (VISUAL ARTS)**

<b>Course Structure</b>		<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
<b>Semesters 1 and 2</b>			
AAB020	Research Project	48	-
<b>Semester 1</b>			
AAB021	Advanced Research Methods	12	3
AAB023	Advanced Readings in Australian Art	12	3
AAN700	Contemporary Debates on the Nature of Art	12	3
<b>Semester 2</b>			
AAN004	Graduate Seminar	12	3

## ■ Bachelor of Arts (Dance) (AA11)

**Location:** Kelvin Grove campus

**Course Duration:** 3 years full-time

**Total Credit Points:** 288

**Course Coordinator:** Ms Shaaron Boughen

Course Structure		Credit Points	Contact Hrs/Wk
<b>Year 1, Semesters 1 and 2</b>			
AAB100	Composition 1	8	3
AAB101	Dance Kinesiology & Alignment	12	3
AAB102	Contemporary Technique 1	24	7.5
AAB103	Classical Technique 1	12	6
AAB104	Music	8	3
<b>Year 1, Semester 1</b>			
AAB051	The Arts in Society	12	3
AAB105	Dance Analysis & History 1	8	3
<b>Year 1, Semester 2</b>			
AAB106	Dance Analysis & History 2	12	3
<b>Year 2, Semesters 1 and 2</b>			
AAB107	Contemporary Technique 2	24	7.5
AAB108	Classical Technique 2	12	4.5
AAB109	Practicum	12	-
	Elective(s)	12	-
<b>Year 2, Semester 1</b>			
AAB110	Composition & Production Techniques	12	5
<b>Year 2, Semester 2</b>			
AAB111	Dance Research	8	2
AAB112	History of Australian Theatre Dance	8	3
<b>Year 3, Semesters 1 and 2</b>			
	Elective(s)	36	-
<b>Year 3, Semester 1</b>			
AAB113	Writings on Dance	12	2
AAB114	Dance in Australian Society	12	3
AAB115	Professional Development Studies	8	2
AAB116	Dance in the Community	12	3
	OR		
AAB117	Dance in Education	16	3
<b>Year 3, Semester 2</b>			
AAB118	Dance Independent Study	16	-
	OR		
AAB119	Jazz & Folk Dance	12	3
<b>Electives</b>			
AAB151	Contemporary Technique 1	12	-
AAB152	Contemporary Technique 2	12	-
AAB153	Advanced Performance 1	20	-
AAB154	Advanced Performance 2	36	-
AAB155	Advanced Analysis 1: Ballet	12	3



AAB156	Advanced Analysis 2: Modern Dance	12	3
AAB157	Advanced Analysis 3: Comparative Study	12	1
AAB158	Advanced Composition 1	8	5
AAB159	Advanced Composition 2	12	5
AAB160	Advanced Composition 3	12	5
AAB161	Dance in the Community 1	16	3
AAB162	Dance in the Community 2	16	3
AAB163	Dance in the Community 3	16	3
AAB164	Dance Elective	8	-

Elective subjects can be selected from other approved QUT courses. Consult the Course Coordinator for details.

## ■ Bachelor of Arts (Drama) (AA21)

**Location:** Kelvin Grove campus

**Course Duration:** 3 years full-time

**Total Credit Points:** 288

**Course Coordinator:** Dr Rod Wissler

Course Structure		Credit Points	Contact Hrs/Wk
<b>OPEN</b>			
<b>Year 1, Semester 1</b>			
AAB051	Arts & Society	12	3
AAB052	Signs & Meanings	12	3
AAB204	Voice & Movement 1	8	4
AAB206	Stagecraft 1	8	4
AAB208	Elements of Drama	12	4
<b>Year 1, Semester 2</b>			
AAB202	Acting 1	8	4
AAB205	Voice & Movement 2	8	4
AAB207	Stagecraft 2	8	4
AAB209	Introductory Theatre Studies	8	4
AAB225	Practicum 1	12	-
<b>Year 2, Semester 1</b>			
AAB203	Acting 2	12	4
AAB211	Development of Theatre 1	8	3
AAB213	Directing	8	3
AAB214	Drama Process	8	3
AAB215	Design	8	3
<b>Year 2, Semester 2</b>			
AAB212	Development of Theatre 2	8	3
AAB216	Playwrighting	8	3
AAB226	Practicum 2	12	-
	Elective(s)	24	
<b>Year 3, Semester 1</b>			
AAB217	Arts Research & Evaluation 1	12	3
AAB219	Professional Studies	12	3
	Elective(s)	24	

**Year 3, Semester 2**

AAB220	Theatre Studies Option	8	2
AAB218	Arts Research & Evaluation 2	8	2
AAB227	Practicum 3	8	-
	Elective(s)	24	

**ACTING****Year 1 (as for Open)****Year 2, Semesters 1 and 2**

AAB246	Music and Dance	12	3
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**Year 2, Semester 1**

AAB203	Acting 2	12	4
AAB211	Development of Theatre 1	8	3
AAB213	Directing	8	3
AAB241	Voice 1	8	2
AAB245	Movement	8	4

**Year 2, Semester 2**

AAB212	Development of Theatre 2	8	3
AAB226	Practicum 2	12	-
AAB242	Voice 2	8	2
AAB247	Acting 3	12	4

**Year 3, Semester 1**

AAB243	Voice 3	8	2
AAB249	Dance Styles	8	2
AAB219	Professional Studies	12	3
AAB227	Practicum 3	8	-
AAB248	Acting 4	16	4

**Year 3, Semester 2**

AAB250	Theatre Production	36	-
AAB244	Voice 4	8	2

**THEATRE MANAGEMENT****Year 1 (as for Open)****Year 2, Semester 1**

AAB211	Development of Theatre 1	8	3
AAB261	The Arts Environment	12	3
AAB262	Arts Finance	12	2
AAB263	Arts Marketing	12	3
FNB102	Introduction to Business Computing	12	4

**Year 2, Semester 2**

AAB212	Development of Theatre 2	8	3
AAB226	Practicum 2	12	-
AAB264	Performing Arts Promotion	8	2
AAB265	Issues in Arts Management	12	3

**Year 3, Semester 1**

AAB217	Arts Research and Evaluation 1	12	3
AAB219	Professional Studies	12	3
AAB220	Theatre Studies Option	8	2
AAB266	Production Planning	8	2
AYB100	Accounting for Managers	12	3

**Year 3, Semester 2**

AAB250	Theatre Production	36	-
AAB227	Practicum 3	8	-

**STAGE MANAGEMENT****Year 1 (as for Open)****Year 2, Semester 1**

AAB211	Development of Theatre 1	8	3
AAB261	The Arts Environment	12	3
AAB281	Technical Aspects of Design	8	2
AAB282	Lighting 1	8	2
AAB284	Stage Management 1	12	2

**Year 2, Semester 2**

AAB212	Development of Theatre 2	8	3
AAB226	Practicum 2	12	-
AAB283	Lighting 2	8	3
AAB287	The Stage Set	8	3
AAB285	Stage Management 2	12	4

**Year 3, Semester 1**

AAB219	Professional Studies	12	3
AAB220	Theatre Studies Option	8	2
AAB266	Production Planning	8	2
AAB286	Stage Management 3	12	2
AAB288	Sound	12	2

**Year 3, Semester 2**

AAB227	Practicum 3	8	-
AAB250	Theatre Production	36	-

**EDUCATIONAL DRAMA****Year 1 (as for Open)****Year 2, Semester 1**

AAB203	Acting 2	12	4
AAB211	Development of Theatre 1	8	3
AAB214	Drama Process	8	3
AAB302	Children's Play to Performance	8	3
AAB303	Theatre in Education	8	3

**Year 2, Semester 2**

AAB212	Development of Theatre 2	8	3
AAB226	Practicum 2	12	-
AAB304	Forming Knowledge Elective(s)	8 24	3

**Year 3, Semester 1**

AAB217	Arts Research & Evaluation 1	12	3
AAB219	Professional Studies Elective(s)	12 24	3

**Year 3, Semester 2**

AAB220	Theatre Studies Option	8	2
AAB227	Practicum 3	8	-
AAB305	Advanced Drama Process Elective(s)	8 24	3

**DRAMA ELECTIVES**

AAB321	Advanced Design 1	12	-
AAB322	Advanced Design 2	12	-
AAB323	Advanced Design 3	24	-
AAB324	Advanced Directing 1	12	-
AAB325	Advanced Directing 2	12	-
AAB326	Advanced Directing 3	24	-

AAB327	Advanced Playwrighting 1	12	-
AAB328	Advanced Playwrighting 2	12	-
AAB329	Independent Study: Drama	24	-

Elective subjects can be selected from other approved QUT courses. Consult the Course Coordinator for details.

## ■ Bachelor of Arts (Music) (AA51)

**Location:** Kelvin Grove campus

**Course Duration:** 3 years full-time

**Total Credit Points:** 288

**Course Coordinator:** Mr Adrian Thomas

Course Structure		Credit Points	Contact Hrs/Wk
<b>COMBINED STUDIES STRAND</b>			
<b>Year 1, Semesters 1 and 2</b>			
AAB500	Chief Practical Study 1	16	2
AAB503	Ensemble Studies C1	12	6
AAB506	Aural Musicianship 1	12	3
AAB508	Keyboard Musicianship	8	2
<b>Year 1, Semester 1</b>			
AAB509	Twentieth Century Music 1	8	4
	Minor Studies 1 (Elective)	12	
<b>Year 1, Semester 2</b>			
AAB051	Arts & Society	12	3
AAB510	Twentieth Century Music 2	8	5
AAB512	Music Studies 1	8	2-4
<b>Year 2, Semesters 1 and 2</b>			
AAB501	Chief Practical Study 2	16	2
AAB504	Ensemble Studies C2	12	6
AAB507	Aural Musicianship 2	8	2
AAB516	Systems of Part Writing 1	12	2
<b>Year 2, Semester 1</b>			
AAB518	Literature & Analysis of Music 1	8	4
	Minor Studies 2 (Elective)	12	
<b>Year 2, Semester 2</b>			
AAB513	Music Studies 2	8	2-4
AAB519	Literature & Analysis of Music 2	8	4
	Minor Studies 3 (Elective)	12	
<b>Year 3, Semesters 1 and 2</b>			
AAB502	Chief Practical Studies 3	16	2
AAB505	Ensemble Studies C3	12	6
AAB517	Systems of Part Writing 2	12	2

**Year 3, Semester 1**

AAB514	Music Studies 3	8	2-4
AAB520	Literature & Analysis of Music 3	8	4
	Minor Studies 4 (Elective)	12	

**Year 3, Semester 2**

AAB511	Twentieth Century Music 3	8	4
AAB515	Music Studies 4	8	2-4
	Minor Studies 5 (Elective)	12	

Elective subjects can be selected from other approved QUT courses. Consult the Course Coordinator for details.

**POPULAR MUSIC STRAND****Year 1, Semesters 1 and 2**

AAB500	Chief Practical Study 1	16	2
AAB506	Aural Musicianship 1	12	3
AAB557	Ensemble Studies P1	16	7

**Year 1, Semester 1**

AAB509	Twentieth Century Music 1	8	4
AAB551	Popular Music Composition 1	8	3

**Year 1, Semester 2**

AAB051	Arts & Society	12	3
AAB510	Twentieth Century Music 2	8	5
AAB512	Music Studies 1	8	2-4
AAB552	Popular Music Composition 2	8	3

**Year 2, Semesters 1 and 2**

AAB501	Chief Practical Study 2	16	2
AAB516	Systems of Part Writing 1	12	2
AAB553	Popular Music Composition 3	16	3
AAB555	Improvisation	12	3
AAB558	Ensemble Studies P2	16	7

**Year 2, Semester 1**

AAB518	Literature & Analysis of Music 1	8	4
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**Year 2, Semester 2**

AAB513	Music Studies 2	8	2-4
AAB519	Literature & Analysis of Music 2	8	4

**Year 3, Semesters 1 and 2**

AAB502	Chief Practical Study 3	16	2
AAB505	Ensemble Studies C3	12	6
AAB517	Systems of Part Writing 2	12	2
AAB554	Popular Music Composition 4	12	3

**Year 3, Semester 1**

AAB520	Literature & Analysis of Music 3	8	4
AAB514	Music Studies 3	8	2-4
AAB556	Popular Music: Sociology, Attitudes, Applications	8	2

**Year 3, Semester 2**

AAB511	Twentieth Century Music 3	8	4
AAB515	Music Studies 4	8	2-4

Elective subjects can be selected from other approved QUT courses. Consult the Course Coordinator for details.

## ■ Bachelor of Arts (Visual Arts) (AA71)

**Location:** Kelvin Grove campus

**Course Duration:** 3 years full-time

**Total Credit Points:** 288

**Course Coordinator:** Mr Brian Dean

Course Structure		Credit Points	Contact Hrs/Wk
<b>Year 1, Semester 1</b>			
AAB052	Signs and Meanings	12	3
AAB701	The Making of Modernism	12	4
AAB702	Foundation Media Study 1	24	18
<b>Year 1, Semester 2</b>			
AAB703	Foundation Media Study 2	36	18
AAB051	Arts in Society	12	3
	OR		
	Elective	12	
<b>Year 2, Semester 1</b>			
AAB704	Art Since 1945	12	3
AAB707	Advanced Media Study 1	24	18
AAB705	Practicum 1*	12	
	OR		
	Elective	12	
<b>Year 2, Semester 2</b>			
AAB708	Advanced Media Study 2	24	12
AAB711	Australian Art	12	3
AAB705	Practicum 1*	12	
	OR		
	Elective	12	
<b>Year 3, Semester 1</b>			
AAB709	Advanced Media Study 3	24	18
AAB712	Contemporary Art Issues+	12	3
AAB705	Practicum 1*	12	
	OR		
AAB713	Research Methods Seminar#	24	
	OR		
	Elective	12	
<b>Year 3, Semester 2</b>			
AAB706	Practicum 2	12	-
AAB710	Advanced Media Study 4	24	12
AAB714	Professional Studies**	12	4
	OR		
	Elective	12	

\* Subject is taken once only, in any of the three indicated semesters.

+ Students enrolled in AAB713 Research Methods Seminar are not required to enrol in AAB712.

# Prerequisite subject taken by students seeking entry to Honours year.

\*\* Required subject for all students not undertaking a minor outside of Visual Arts.

**Electives**

AAB720	Extended Media Study 2	12	3
AAB721	Extended Media Study 4	12	3
AAB722	Extended Media Study 6	12	3
AAB724	Renaissance Study	12	3
AAB725	Introduction to South-east Asian Art	12	3

**■ Bachelor of Social Science (Human Services) (SS07)****Location:** Carseldine campus**Course Duration:** 3 years full-time, 6 years part-time**Total Credit Points:** 288**Course Coordinator:** Mr Ross Daniels

<b>Full-Time Course Structure</b>		<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
<b>Year 1, Semester 1</b>			
SSB000	Studies in Australian Society 1	12	3
SSB001	Human Development 1	12	3
SSB002	Studies in Human Rights 1	12	3
SSB003	Interpersonal Psychology 1	12	3
<b>Year 1, Semester 2</b>			
SSB004	Studies in Australian Society 2	12	3
SSB005	Human Development 2	12	3
SSB006	Studies in Human Rights 2	12	3
SSB007	Interpersonal Psychology 2	12	3
<b>Year 2, Semester 1</b>			
SSB008	Counselling Theory & Practice	12	3
SSB009	The Australian Welfare State	12	3
SSB010	Professional Resources 1	12	3
<b>Select one from the following:</b>			
SSB011	Child & Family Services 1	12	3
SSB012	Disability Services 1	12	3
SSB013	Corrective Services 1	12	3
SSB014	Aged Services 1	12	3
SSB015	Multicultural Services 1	12	3
SSB016	Youth Services 1	12	3
<b>Year 2, Semester 2</b>			
COB018	Organisational Skills 1	12	3
SSB017	Group Work	12	3
SSB019	Professional Resources 2	12	4
<b>Select one from the following:</b>			
SSB020	Child & Family Services 2	12	3
SSB021	Disability Services 2	12	3
SSB022	Corrective Services 2	12	3
SSB023	Aged Services 2	12	3
SSB024	Multicultural Services 2	12	3
SSB025	Youth Services 2	12	3

**Inter-semester period**

SSB026	Fieldwork Practice 1	-	360 hrs for 10 wks
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**Year 3, Semester 1**

COB029	Organisational Skills 2	12	3
SSB027	Community Work	12	3
SSB028	Studies in Australian Society 3	12	3

Select one from the following:

SSB030	Child & Family Services 3	12	3
SSB031	Disability Services 3	12	3
SSB032	Corrective Services 3	12	3
SSB033	Aged Services 3	12	3
SSB034	Multicultural Services 3	12	3
SSB035	Youth Services 3	12	3

**Inter-semester period**

SSB036	Fieldwork Practice 2	-	360 hrs for 10 wks
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**Year 3, Semester 2**

SSB037	Studies in Human Rights 3	12	3
SSB038	Social Policy & Social Change	12	3
SSB039	Contemporary Social Policies	12	3

Select one from the following:

SSB040	Child & Family Services 4	12	3
SSB041	Disability Services 4	12	3
SSB042	Corrective Services 4	12	3
SSB043	Aged Services 4	12	3
SSB044	Multicultural Services 4	12	3
SSB045	Youth Services 4	12	3

**Part-Time Course Structure**

For details of the part-time course, contact the Course Coordinator.

**■ Associate Diploma in Arts (Dance) (AA10)****Location:** Kelvin Grove campus**Course Duration:** 2 years full-time**Total Credit Points:** 192**Course Coordinator:** Ms Sue Street

Course Structure		Credit Points	Contact Hrs/Wk
<b>Year 1, Semesters 1 and 2</b>			
AAX101	Composition 1	8	2
AAX103	Music 1	8	1.5
AAX104	Dance Kinesiology & Alignment	12	3.5
AAX105	Dance Styles 1	8	2
<b>Year 1, Semester 1</b>			
AAX107	Dance Techniques 1	16	15
AAX111	Repertoire & Prac Period 1	12	-



**Year 1, Semester 2**

AAX108	Dance Techniques 2	16	15
AAX112	Repertoire & Prac Period 2	16	-

**Year 2, Semesters 1 and 2**

AAX102	Dance Composition 2	8	2
AAX106	Dance Styles 2	8	3
AAX115	Dance History	8	1.5
AAX116	Stagecraft	8	2

**Year 2, Semester 1**

AAX109	Dance Techniques 3	16	15
AAX113	Repertoire & Prac Period 3	16	-

**Year 2, Semester 2**

AAX110	Dance Technique 4	16	15
AAX114	Repertoire & Prac Period 4	16	-



# **FACULTY OF BUILT ENVIRONMENT AND ENGINEERING**

**BUILT  
ENVIRONMENT  
& ENGINEERING**

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# FACULTY OF BUILT ENVIRONMENT AND ENGINEERING

## Course Structures

### ■ Master of Built Environment (BN73)

**Location:** Gardens Point campus

#### Entry Requirements

Applicants for admission to the masters program:

- (i) shall hold a suitable degree or postgraduate qualification leading to eligibility for corporate membership of an accepted professional institute; or
- (ii) shall hold qualifications approved by the Masters Degree Standing Committee on the recommendation of the Course Coordinator as equivalent to the requirements set out in paragraph (i) above; and
- (iii) 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 Masters Degree 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:** 1.5 years full-time, 3 years part-time

**Total Credit Points:** 144

**Standard Credit Points/Full-Time Semester:** 48

**Coordinator for Project Management Major:** Mr Andrew Leicester

The first two semesters full-time or four semesters part-time are identical to the Graduate Diploma in Project Management (CN64). Persons admitted to the Master of Built Environment who are graduates of the Graduate Diploma in Project Management will complete 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
<b>Year 1, Semester 1</b>			
CNP417	Design Management	6	2
CNP426	Project Development*	6	2
CNP429	Cost Management & Economics*	6	2
CNP430	Current Issues*	9	3

\* Subject extends over two semesters.

CNP431	Project Management*	6	2
CNP433	Project Management Law*	6	2
CNP434	Time Management 1	6	2

#### **Year 1, Semester 2**

CNP414	Time Management 2	6	2
CNP426	Project Development*	6	2
CNP429	Cost Management & Economics*	6	2
CNP430	Current Issues*	9	3
CNP431	Project Management*	6	2
CNP433	Project Management Law*	6	2
CNP437	Field Trip	12	5 days

#### **Year 2, Semester 1**

CNN442	Dissertation	48	4
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#### **Part-Time Course Structure**

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

#### **Year 1, Semester 1**

CNP417	Design Management	6	2
CNP429	Cost Management & Economics*	6	2
CNP431	Project Management*	6	2
CNP434	Time Management 1	6	2

#### **Year 1, Semester 2**

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

#### **Year 2, Semester 1**

CNP426	Project Development*	6	2
CNP430	Current Issues*	9	3
CNP433	Project Management Law*	6	2

#### **Year 2, Semester 2**

CNP426	Project Development*	6	2
CNP430	Current Issues*	9	3
CNP433	Project Management Law*	6	2

#### **Year 3, Semester 1**

CNN442	Dissertation*	24	2
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#### **Year 3, Semester 2**

CNN442	Dissertation*	24	2
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#### **PROPERTY DEVELOPMENT SPECIALISATION**

#### **Full-time Course Structure**

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

#### **Year 1, Semester 1**

CNP422	Specialist Valuations	6	2
CNP426	Project Development*	6	2
CNP430	Current Issues*	9	3
CNP431	Project Management*	6	2
CNP433	Project Management Law*	6	2
CNP438	Real Estate Investment Analysis*	6	2
CNP439	Property Management	6	2

\* Subject extends over two semesters.

### Year 1, Semester 2

CNP426	Project Development*	6	2
CNP430	Current Issues*	9	3
CNP431	Project Management*	6	2
CNP433	Project Management Law*	6	2
CNP437	Field Trip	12	5 days
CNP438	Real Estate Investment Analysis*	6	2
CNP667	Applied Computing	6	2

### Year 2, Semester 1

CNN442	Dissertation	48	4
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### Part-Time Course Structure

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

### Year 1, Semester 1

CNP426	Project Development*	6	2
CNP431	Project Management*	6	2
CNP438	Real Estate Investment Analysis*	6	2
CNP439	Property Management	6	2

### Year 1, Semester 2

CNP426	Project Development*	6	2
CNP431	Project Management*	6	2
CNP437	Field Trip	12	5 days
CNP438	Real Estate Investment Analysis*	6	2

### Year 2, Semester 1

CNP422	Specialist Valuations	6	2
CNP430	Current Issues*	9	3
CNP433	Project Management Law*	6	2

### Year 2, Semester 2

CNP430	Current Issues*	9	3
CNP433	Project Management Law*	6	2
CNP667	Applied Computing	6	2

### Year 3, Semester 1

CNN442	Dissertation*	24	2
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### Year 3, Semester 2

CNN442	Dissertation*	24	2
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## URBAN DESIGN MAJOR (AND GRADUATE DIPLOMA IN URBAN DESIGN [PL69])

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

**Total Credit Points:** 96 (for both Graduate Diploma and Masters)

**Standard Credit Points/Full-Time Semester:** 48

**Coordinator for Urban Design Major:** Dr Catherin Bull

\* Subject extends over two semesters.

## Entry Requirements

### NORMAL ENTRY

#### 1. To the Graduate Diploma:

A bachelor degree with a grade point average of 5 or better and demonstrated potential in a relevant professional activity, or a relevant graduate diploma with a grade point average of 5 or better, or a qualifying program with a grade point average of 5 or better.

#### 2. To the Masters:

A grade point average of 5 or better in the Graduate Diploma in Urban Design at the completion of one semester full-time or two semesters part-time.

Relevant professional activity normally means the areas of Architecture, Planning and Landscape Architecture.

### PROVISIONAL ENTRY

Applicants with other than normal entry requirements may be registered provisionally in the course if they submit other evidence of academic and professional attainment and candidature is approved by the Masters Degree Standing Committee on the recommendation of the Course Coordinator.

A person provisionally enrolled is required to satisfactorily undertake a qualifying program which may include course subjects, and/or such other work as is determined before admission is confirmed. Provisional registration in the course will apply for a maximum period of 12 months for both full-time and part-time students.

## Graduate Diploma - Masters Level Articulation

Applicants are considered initially for acceptance in the Graduate Diploma in Urban Design. At the completion of one semester for full-time students and at the completion of two semesters for those studying part-time, students will be considered for enrolment in the Masters in Urban Design. A grade point average of 5 or better in the course is normally required for progression to the Masters level.

## Focus in Graduate Diploma and Masters

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

The Masters includes skills and knowledge development through set coursework in common with the Graduate Diploma, but also requires individual research and the writing of a dissertation.

### Full-Time Course Structure (All subjects are for both Graduate Diploma and Masters students except as noted.)

Credit Points	Contact Hrs/Wk
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#### Year 1, Semester 1

CNP439	Property Management	6	2
IFN001	Advanced Information Retrieval Skills	4	1
PLN101	Urban Design Analysis Studio	8	3
PLN103	Urban Design Conjecture Studio	8	3
PLN105	Urban Design Field Studies	2	10 days
PLN114	Applied Research Techniques*	4	1
PLN201	Urban Design History of Urban Systems	4	1
PLN204	Urban Design Theory & Criticism	4	1
PLN402	Law & Legislation in Urban Design	4	1
PLN701	Urban Design Elective 1+	4	1

\* Masters students only.

+ Graduate Diploma students only.



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

### Year 1, Semester 2

PLN102	Urban Design Context Studio	8	3
PLN302	Urban Landscape	4	1
PLN304	Urban Services & Functions	4	1
PLN401	Computer Applications in Urban Design	4	2
PLN501	Urban Design Research Dissertation*	24	4
PLN702	Urban Design Elective 2+	24	4 - 8
PLP505	Conservation Theory	3	1

### Part-Time Course Structure

(All subjects are for both Graduate Diploma and Masters students except as noted.)

### Year 1, Semester 1

IFN001	Advanced Information Retrieval Skills	4	1
PLN101	Urban Design Analysis Studio	8	3
PLN201	Urban Design History of Urban Systems	4	1
PLN402	Law & Legislation in Urban Design	4	1
PLP216	Computer Aided Data Analysis A	2	1
PLP511	Environmental Psychology	4	2

### Year 1, Semester 2

CNP439	Property Management	6	2
PLN103	Urban Design Conjecture Studio	8	3
PLN105	Urban Design Field Studies	2	10 days
PLN114	Applied Research Techniques*	4	1
PLN204	Urban Design Theory & Criticism	4	1
PLN701	Urban Design Elective 1+	4	1

### Year 2, Semester 1

PLN102	Urban Design Context Studio	8	3
PLN302	Urban Landscape	4	1
PLN304	Urban Services & Functions	4	1
PLN401	Computer Applications in Urban Design	4	2
PLP505	Conservation Theory	3	1

### Year 2, Semester 2

PLN501	Urban Design Research Dissertation*	24	4
PLN702	Urban Design Elective 2+	24	4 - 8

## CITY AND REGIONAL PLANNING MAJOR

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

**Total Credit Points:** 96

**Standard Credit Points/Full-Time Semester:** 48

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

### Entry Requirements

Applicants for admission should:

- (i) hold a Graduate Diploma in Urban and Regional Planning from QUT; or

\* *Masters students only.*

+ *Graduate Diploma students only.*

- (ii) hold a professional planning degree or diploma from a recognised university, college of advanced education, or approved equivalent tertiary institution; and
- (iii) have attained a level of achievement in previous studies which attests to the applicant's ability to undertake successfully a masters program in the field of City and Regional Planning.

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

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

**Year 1, Semester 2**

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

**Part-Time Course Structure**

**Year 1, Semester 1**

PLN111	Comparative Planning Theory	8	2
PLN115	Metropolitan Planning Practice & Law	16	3

**Year 1, Semester 2**

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

**Year 2, Semester 1**

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

**Year 2, Semester 2**

PLN121	Planning Thesis	24	2
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**LANDSCAPE ARCHITECTURE MAJOR**

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

**Total Credit Points:** 96

**Standard Credit Points/Full-Time Semester:** 48

**Coordinator for Landscape Architecture Major:** Dr Catherin Bull

**Entry Requirements**

Applicants for admission shall:

- (i) hold the Graduate Diploma in Landscape Architecture from QUT with a grade point average of 5 or better or an equivalent qualification, and
- (ii) have demonstrated potential through relevant professional activities to participate actively in a Masters program.

In addition, as part of the documentation for application, each applicant is required to submit:

- (i) a written statement identifying the specialised area of study to be pursued (as a means of defining potential areas of concentrations and of giving a preliminary indication of the Dissertation topic) and the contribution the applicant intends to make to the course and the profession by undertaking the particular focus of study; and
- (ii) a folio in A4 or A3 format demonstrating the applicant's professional experience and expertise.

### Full-Time Course Structure

**Credit  
Points**

**Contact  
Hrs/Wk**

#### Year 1, Semester 1

IFN001	Advanced Information Retrieval Skills	4	1
PLN250	Masters Studio	12	3
PLN251	Advanced Practice 1	4	1
PLN253	Practice Seminar	6	2
PLN255	Designated Studies	6	2
PLN256	Concentration Studies	8	2
PLN257	Research Method	4	1
	Elective	6	2

#### Year 1, Semester 2

PLN252	Advanced Practice 2	8	2
PLN254	Professional Seminars	8	2
PLN258	Dissertation	24	4
	Elective	8	2

### Part-Time Course Structure

**Credit  
Points**

**Contact  
Hrs/Wk**

#### Year 1, Semester 1

IFN001	Advanced Information Retrieval Skills	4	1
PLN250	Masters Studio	12	3
PLN251	Advanced Practice 1	4	1
PLN255	Designated Studies	6	2

#### Year 1, Semester 2

PLN252	Advanced Practice 2	8	2
PLN254	Professional Seminars	8	2
	Elective	8	2

#### Year 2, Semester 1

PLN253	Practice Seminar	6	2
PLN255	Designated Studies	6	2
PLN256	Concentration Studies	8	2
PLN257	Research Method	4	1

#### Year 2, Semester 2

PLN258	Dissertation	24	4
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**Note:** Regarding Elective - students elect subjects outside their Major in areas such as environmental law, marketing, management, business, politics, economics, health, and safety in order to extend their knowledge and skills into related areas.

## ■ Master of Engineering Science (Civil Engineering) (CE74)

**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 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 of at least 5 after completion of at least 50 per cent of the coursework for the Graduate Diploma.

### Course Structure

The course consists 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 percent of the content of the course. The subject CEP999 is a multi-semester subject with a combined value of 36 credit points, or over two semesters at 18 credit points per semester.

Graduates who have completed the prescribed subjects for a major theme will have their award certificates endorsed - "Majoring in ...".

### Core Structure

		<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
<b>Subjects are generally offered in alternate years</b>			
CEP131	Engineering Management & Administration*	12	3
CEP200	Process Modelling+	8	2
CEP999	Project*+	36	4
	OR		
CEP998	Project B*+	20	5

### Electives

CEP107	Construction Management & Economics*	8	2
CEP109	Municipal Law & Regulations+	8	2
CEP127	Road & Traffic Engineering*	12	3
CEP128	Municipal Engineering Planning*	12	3
CEP172	Water Quality Engineering*	8	2
CEP174	Public Health Engineering Practice*	12	3
CEP215	Advanced Traffic Engineering+	8	2

\* Subject offered in Semester 1.

+ Subject offered in Semester 2.

CEP218	Transportation Engineering*	12	3
CEP276	Advanced Treatment Processes+	8	2
CEP277	Waste Management+	12	3
CEP290	Environmental Law & Assessment+	8	2
CEP310	Urban Transportation Planning+	8	2
CEP361	Drainage Engineering+	8	2
CHP691	Environmental Chemistry*	8	3

### Prescribed subjects for major themes

**Credit  
Points**

#### ENVIRONMENTAL ENGINEERING

CEP131	Engineering Management & Administration	12
CEP172	Water Quality Engineering	8
CEP200	Process Modelling	8
CEP277	Waste Management	12
CEP290	Environmental Law & Assessment	8
CHP691	Environmental Chemistry	8
CEP998	Project B	20
	AND EITHER	
CEP174	Public Health Engineering Practice	12
	TOGETHER WITH	
CEP276	Advanced Treatment Processes	8
	OR	
CEP128	Municipal Engineering Planning	12
	together with either	
CEP310	Urban Transport Planning	8
	OR	
CEP361	Drainage Engineering	8
		—
		96
		—

#### LOCAL GOVERNMENT ENGINEERING

CEP107	Construction Management & Economics	8
CEP127	Road & Traffic Engineering	12
CEP128	Municipal Engineering Planning	12
CEP131	Engineering Management & Administration	12
CEP200	Process Modelling	8
	PLUS EITHER	
CEP999	Project	36
	AND ONE OF	
CEP109	Municipal Law & Regulation	8
CEP361	Drainage Engineering	8
	OR	
CEP290	Environmental Law & Assessment	8
	OR	
CEP998	Project B	20
	PLUS	
CEP109	Municipal Law & Regulation	8
	TOGETHER WITH	
CEP361	Drainage Engineering	8
	AND	
CEP290	Environmental Law & Assessment	8
		—
		96
		—

\* Subject offered in Semester 1.

+ Subject offered in Semester 2.

## **PUBLIC HEALTH ENGINEERING**

CEP131	Engineering Management & Administration	12
CEP172	Water Quality Engineering	8
CEP174	Public Health Engineering Practice	12
CEP200	Process Modelling	8
CEP276	Advanced Treatment Processes	8
CEP277	Waste Management	12
CEP999	Project	36

—  
96  
—

## **TRANSPORTATION ENGINEERING**

CEP131	Engineering Management & Administration	12
CEP127	Road & Traffic Engineering	12
CEP200	Process Modelling	8
CEP215	Advanced Traffic Engineering	8
CEP218	Transportation Engineering	12
CEP999	Project	36

<b>AND EITHER</b>		
CEP310	Urban Transport Planning	8
<b>OR</b>		
CEP361	Drainage Engineering	8

—  
96  
—

## **■ Master of Engineering Science (Computer Engineering) (EE75)**

**Location:** Gardens Point campus

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

**Total Credit Points:** 96

**Standard Credit Points/Full-Time Semester:** 48

**Course Coordinator:** 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 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 grade point average of 5 or greater and with a Bachelor's degree in Engineering can complete the Master of Engineering Science by completing the research project and thesis.

### **Methods of Assessment**

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

The coursework consists of the four compulsory 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
<b>Semester 1</b>			
EEP102	Unix & C for Engineering	12	3
EEP104	Realtime Operating Systems	12	3
<b>Semester 2</b>			
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 (BN72)

**Location:** Gardens Point campus

### Introduction

The objectives of the program are:

- ☐ to provide for postgraduate educational opportunities in design, investigation, development, research or any combination thereof, directly related to professional engineering practice
- ☐ 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 is a subcommittee of Academic Committee.

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

1.4 This program is administered by the Academic Board of the Faculty of Built Environment and 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 a candidate must:

\* *Subject extends over two semesters.*

- ☐ have completed the approved program involving advanced and/or original work under the supervision prescribed by the Built Environment and Engineering Academic Board
- ☐ have submitted and the Faculty of Built Environment and 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 Faculty Academic Board, and
- ☐ submit to the Faculty Academic Board a declaration signed by the candidate that he/she has not been a candidate for another tertiary award without permission of the Academic Board.

## **2. Registration**

2.1 Applications shall be accepted subject to the availability of facilities and supervision.

2.2 Applications may be lodged with the Registrar at any time.

2.3 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 before the offer of admission to the program lapses.

2.4 Normal admission will require the candidate to have at least an Honours 2A degree in a bachelor degree in Engineering from the Queensland University of Technology or a qualification judged equivalent by the Faculty Academic Board.

Entry to the program may be allowed by candidates without an Honours 2A degree if the following requirements are met:

- (i) three years' professional experience in the general field in which the proposed work lies; or
- (ii) satisfactory completion of an appropriate master's qualifying program including formal coursework and/or reading program in related fields stipulated by the Faculty of Built Environment and Engineering Academic Board;\* or
- (iii) the submission of technical publications or other appropriate evidence which satisfies the 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 Academic Board to meet the requirements for entry.

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

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

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



2.7 The program is offered on a full-time and/or a part-time basis. Part-time students normally are employed in some professional engineering capacity during the day and carry out their projects on a part-time basis at QUT or in their place of employment or in a sponsoring organisation.

2.8 Full-time students may be on a scholarship from industry or QUT, and may carry out their projects at QUT or in a sponsoring organisation. Normally full-time students would be expected to work on their projects at 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 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 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 Academic Board shall prescribe.

### 3. Course of Study

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

3.2 All projects should be sponsored by outside agencies such as industry, government authorities and professional organisations, or by QUT itself. This provision is to ensure that programs are relevant to the aims of the University and the community. It is important that 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.

3.5 The course of study normally includes:

- ☐ 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 a qualifying program.*

- ☐ as independent study or reading courses, or
- ☐ as research projects conducted under faculty supervision.

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

**3.7** The following documents should be lodged with the application:

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

#### **4. Period of Time for Completion of Course Study**

**4.1** The duration of study for students with four years of relevant study at tertiary level will normally be one year of full-time study or the part-time equivalent.

In order to encourage completion of research degrees within a reasonable timeframe, QUT has set limits on the length of time for which it will fund a faculty for full-time research master degree candidates, as two years.

Time limits are measured in calendar years from the first day of the first semester in which the student enrolled. Periods of exclusion or absence with or without approval are included.

Students who exceed these limits may be asked to show cause why they should not be excluded from further enrolment in the course.

Students are notified of exclusion by registered mail. They have right of appeal to the Academic Appeals Committee.

#### **5. Supervision**

**5.1** The 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 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 Academic Board, and after approval has been granted, no change will be made except with the permission of the Academic Board.

7.3 The candidate shall give two months' written notice of intention to submit his/her thesis.

7.4 The thesis shall comply with the following requirements:

- a significant proportion of the work described (as determined by the 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 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 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 the Research Management Committee when the thesis is submitted. The period normally shall not exceed two years from the date on which the examiners recommend acceptance of the thesis during which time the thesis will be held on restricted access in the QUT Library.

## 8. Examination of Thesis

8.1 The Academic Board shall appoint three examiners, of whom at least two shall be from outside of the University. No supervisor of the candidate shall be appointed as one of the examiners.

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

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

- (i) recommend that the thesis be accepted without modification, or
- (ii) 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
- (iii) permit the student to resubmit the revised thesis for re-examination within one year, or
- (iv) cancel the student's registration.

8.4 If the examiners' reports are conflicting, the 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 (EE65)

**Location:** Gardens Point campus

**Course Duration:** 2 years part-time

**Total Credit Points:** 96

**Standard Credit Points/Full-Time Semester:** 48

**Course Coordinator:** Mr Paul Wilson

### Entry Requirements

To be eligible for admission an applicant must hold a Bachelor's degree in Engineering or Computer Science.

Applicants possessing a degree in other areas of technology such as Mathematics, Physics or Chemistry may be required to undertake prerequisite subjects at undergraduate level.

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

## Years 2 - Elective Subjects\*

### Year 2, Semester 1

Select two subjects from the following three:

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

### Year 2, Semester 2

Select two subjects from the following three:

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

## ■ Graduate Diploma in Industrial Design (AR61)

**Location:** Gardens Point campus

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

**Total Credit Points:** 96

**Standard Credit Points/Full-Time Semester:** 48

**Course Coordinator:** Associate Professor Vesna Popovic

### Entry Requirements

To be eligible for admission, an applicant must:

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

### Professional Recognition

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

### Full-Time Course Structure

	Credit Points	Contact Hrs/Wk
<b>Semester 1</b>		
ARP613	Advanced Ergonomics 1	2
ARP642	Case Studies	4
ARP671	History, Theory & Criticism of Industrial Design	2
ARP672	Industrial Design 1	16
ARP674	Industrial Design Research 1	20
ARP676	Advanced CAD for Industrial Designers 1	4
<b>Semester 2</b>		
ARP623	Advanced Ergonomics 2	4
ARP652	Design Management & Decision Theory	2
ARP653	Professional Practice	2
ARP673	Industrial Design 2	16
ARP675	Industrial Design Research 2	20
ARP677	Advanced CAD for Industrial Designers 2	4

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

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

## ■ Graduate Diploma in Interior Design (AR62)

**Location:** Gardens Point campus

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

**Total Credit Points:** 96

**Standard Credit Points/Full-Time Semester:** 48

**Course Coordinator:** Mr Peter Hedley

### Entry Requirements

To be eligible for admission, an applicant must:

- (i) hold an approved degree or diploma from a recognised tertiary institution; and
- (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
<b>Semester 1</b>			
ARP501	Introduction to Facilities Management	8	2
ARP502	Environmental Communications	16	6
ARP504	Professional Practice & Management for Interior Designers 1	11	3
ARP601	Film, TV & Design for Theatre	13	5

## Semester 2

ARP503	Workplace Design	18	6
ARP505	Professional Practice & Management for Interior Designers 2	4	2
ARP600	Building Evaluation & Brief Development	8	2
ARP604	Conservation of Historic Interiors	18	6

## Part-Time Course Structure

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

### Year 1, Semester 1

ARP502	Environmental Communications	16	6
ARP504	Professional Practice & Management for Interior Designers 1	11	3

### Year 1, Semester 2

ARP503	Workplace Design	18	6
ARP505	Professional Practice & Management for Interior Designers 2	4	2

### Year 2, Semester 1

ARP501	Introduction to Facilities Management	8	2
ARP601	Film, TV & Design for Theatre	13	5

### Year 2, Semester 2

ARP600	Building Evaluation & Brief Development	8	2
ARP604	Conservation of Historic Interiors	18	6

## ■ Graduate Diploma in Landscape Architecture (PL66)

**Location:** Gardens Point campus

**Course Duration:** 2 years full-time, 4 years part-time

**Total Credit Points:** 192

**Standard Credit Points/Full-Time Semester:** 48

**Course Coordinator:** Mr George Williams

### Entry Requirements

To be eligible for normal admission, an applicant must:

- (i) hold an approved degree or diploma from a recognised tertiary institution; or
- (ii) have attained professional recognition by a course of study or examination.

Special entry provisions also apply. 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 Bachelor of Built Environment (Landscape Architecture Major) are 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**

COP113	Oral Communication Skills	2	1
COP114	Report Preparation	2	1
LSP512	Introduction to Plant Science	4	2
PLP501	Theory of Site Planning	2	1
PLP506	User & Character Design Studies	8	3
PLP508	Introduction to Practice	4	2
PLP511	Environmental Psychology	4	2
PLP513	Introduction to Plant Ecology	4	2
PLP516	Visual Communication - Graphics	6	3
PLP521	Map & Air Photo Interpretation	4	1
PLP522	Measurement of Sites	2	1
PLP523	Landscape Construction 1	6	3

**Year 1, Semester 2**

PLP502	Site Planning Techniques	2	1
PLP503	History of Landscape Design	2	1
PLP504	Planting Design	3	1
PLP505	Conservation Theory	3	1
PLP507	Site Planning	9	3
PLP509	Quantities & Costs	2	1
PLP510	Introduction to Law	2	1
PLP514	Landscape Ecology	9	3
PLP515	Impacts & Assessment	4	2
PLP520	Landscape Graphics	4	2

**Year 2, Semester 1**

PLP202	Residential Landscape Design	8	3
PLP203	Urban Landscape Design	10	3
PLP206	Forum/Workshop A	2	1
PLP209	Advanced Landscape Ecology	2	1
PLP210	Landscape Management A	10	4
PLP212	Advanced Graphics	4	2
PLP213	Advanced Landscape Construction	8	3
PLP215	School Field Trip*	2	7-10 days
PLP216	Computer Aided Data Analysis A	2	1

**Year 2, Semester 2**

PLP201	Cultural Values	4	1
PLP204	Landscape Planning	10	4
PLP205	Landscape Design	10	3
PLP207	Forum/Workshop B	2	1
PLP208	Landscape Practice	6	2
PLP211	Landscape Management B	10	4
PLP214	Landscape Engineering	4	2
PLP217	Computer Aided Data Analysis B	2	1

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

LSP512	Introduction to Plant Science	4	2
PLP508	Introduction to Practice	4	2
PLP513	Introduction to Plant Ecology	4	2
PLP516	Visual Communication - Graphics	6	3
PLP521	Map & Air Photo Interpretation	4	1
PLP522	Measurement of Sites	2	1

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



### Year 1, Semester 2

PLP503	History of Landscape Design	2	1
PLP504	Planting Design	3	1
PLP509	Quantities & Costs	2	1
PLP510	Introduction to Law	2	1
PLP514	Landscape Ecology	9	3
PLP520	Landscape Graphics	6	2

### Year 2, Semester 1

COP113	Oral Communication Skills	2	1
COP114	Report Preparation	2	1
PLP501	Theory of Site Planning	2	1
PLP506	User & Character Design Studies	8	3
PLP511	Environmental Psychology	4	2
PLP523	Landscape Construction 1	6	3

### Year 2, Semester 2

PLP502	Site Planning Techniques	2	1
PLP505	Conservation Theory	3	1
PLP507	Site Planning	9	3
PLP515	Impacts & Assessment	4	2
PLP524	Landscape Construction 2	6	3

### Year 3, Semester 1

PLP202	Residential Landscape Design	8	3
PLP206	Forum/Workshop A	2	1
PLP212	Advanced Graphics	4	2
PLP213	Advanced Landscape Construction	8	3
PLP216	Computer Aided Data Analysis A	2	1

### Year 3, Semester 2

PLP204	Landscape Planning	10	4
PLP207	Forum/Workshop B	2	1
PLP211	Landscape Management B	10	4
PLP217	Computer Aided Data Analysis B	2	1

### Year 4, Semester 1

PLP203	Urban Landscape Design	10	3
PLP209	Advanced Landscape Ecology	2	1
PLP210	Landscape Management A	10	4
PLP215	School Field Trip*	2	7-10 days

### Year 4, Semester 2

PLP201	Cultural Values	4	1
PLP205	Landscape Design	10	3
PLP208	Landscape Practice	6	2
PLP214	Landscape Engineering	4	2

## ■ Graduate Diploma in Municipal Engineering (CE63)

**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

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

## Entry Requirements

### NORMAL ENTRY

To be eligible for admission an applicant must hold 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 consists of 48 credit points (13 semester hours) of core material and 48 credit points (10 semester hours) of elective material.

Graduates who have completed the prescribed subjects for a major theme will have their award certificates endorsed - "Majoring in ...".

		Credit Points	Contact Hrs/Wk
<b>Core Subjects</b>			
Subjects are generally offered in alternate years.			
CEP128	Municipal Engineering Planning*	12	3
CEP131	Engineering Management & Administration*	12	3
CEP200	Process Modelling+	8	2
CEP361	Drainage Engineering+	8	2
CEP491	Municipal Engineering Practice*+	16	3

### Electives

CEP107	Construction Management & Economics*	8	2
CEP109	Municipal Law & Regulations+	8	2
CEP127	Road & Traffic Engineering*	12	3
CEP172	Water Quality Engineering*	8	2
CEP174	Public Health Engineering Practice*	12	3
CEP215	Advanced Traffic Engineering+	8	2
CEP218	Transportation Engineering*	12	3
CEP276	Advanced Treatment Processes+	8	2
CEP277	Waste Management+	12	3
CEP290	Environmental Law & Assessment+	8	2
CEP310	Urban Transportation Planning+	8	2
CHP691	Environmental Chemistry*	8	3

Prescribed subjects for major themes		Credit Points	Contact Hrs/Wk
<b>ENVIRONMENTAL ENGINEERING</b>			
CEP128	Municipal Engineering Planning	12	3
CEP131	Engineering Management & Administration	12	3
CEP172	Water Quality Engineering	8	2
CEP174	Public Health Engineering Practice	12	3
CEP200	Process Modelling	8	2
CEP276	Advanced Treatment Processes	8	2
CEP277	Waste Management	12	3

\* Subject offered in Semester 1.

+ Subject offered in Semester 2.

CEP290	Environmental Law & Assessment	8	2
CEP361	Drainage Engineering	8	2
CHP691	Environmental Chemistry	8	3
<b>LOCAL GOVERNMENT ENGINEERING</b>			
CEP107	Construction Management & Economics	8	2
CEP109	Municipal Law & Regulation	8	2
CEP127	Road & Traffic Engineering	12	3
CEP128	Municipal Engineering Planning	12	3
CEP131	Engineering Management & Administration	12	3
CEP174	Public Health Engineering Practice	12	3
CEP200	Process Modelling	8	2
CEP361	Drainage Engineering	8	2
<b>AND EITHER</b>			
CEP491	Municipal Engineering Practice	16	3
<b>OR</b>			
	Two Approved Electives	16	3
<b>PUBLIC HEALTH ENGINEERING</b>			
CEP128	Municipal Engineering Planning	12	3
CEP131	Engineering Management & Administration	12	3
CEP172	Water Quality Engineering	8	2
CEP174	Public Health Engineering Practice	12	3
CEP200	Process Modelling	8	2
CEP276	Advanced Treatment Processes	8	2
CEP277	Waste Management	12	3
CEP361	Drainage Engineering	8	2
CEP491	Municipal Engineering Practice	16	3
<b>TRANSPORTATION ENGINEERING</b>			
CEP127	Road & Traffic Engineering	12	3
CEP128	Municipal Engineering Planning	12	3
CEP131	Engineering Management & Administration	12	3
CEP200	Process Modelling	8	2
CEP215	Advanced Traffic Engineering	8	2
CEP218	Transportation Engineering	12	3
CEP310	Urban Transport Planning	8	2
CEP361	Drainage Engineering	8	2
CEP491	Municipal Engineering Practice	16	3

## ■ Graduate Diploma in Project Management (CN64)

**Location:** Gardens Point campus

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

**Total Credit Points:** 96

**Standard Credit Points/Full-Time Semester:** 48

**Course Coordinator:** Mr Andrew Leicester

### Entry Requirements

To be eligible for admission an applicant must:

- hold an approved degree or diploma from a recognised tertiary institution; or
- have attained professional recognition by an equivalent course of study or examination, and
- have a minimum of three years of relevant experience after graduation.

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

#### **BUILDING MAJOR**

##### **Full-Time Course Structure**

**Credit  
Points**

**Contact  
Hrs/Wk**

##### **Semester 1**

CNP417	Design Management	6	2
CNP426	Project Development*	6	2
CNP429	Cost Management & Economics*	6	2
CNP430	Current Issues*	9	3
CNP431	Project Management*	6	2
CNP433	Project Management Law*	6	2
CNP434	Time Management 1	6	2

##### **Semester 2**

CNP414	Time Management 2	6	2
CNP426	Project Development*	6	2
CNP429	Cost Management & Economics*	6	2
CNP430	Current Issues*	9	3
CNP431	Project Management*	6	2
CNP433	Project Management Law*	6	2
CNP437	Field Trip	12	5 days

##### **Part-Time Course Structure**

**Credit  
Points**

**Contact  
Hrs/Wk**

##### **Year 1, Semester 1**

CNP417	Design Management	6	2
CNP429	Cost Management & Economics*	6	2
CNP431	Project Management*	6	2
CNP434	Time Management 1	6	2

##### **Year 1, Semester 2**

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

##### **Year 2, Semester 1**

CNP426	Project Development*	6	2
CNP430	Current Issues*	9	3
CNP433	Project Management Law*	6	2

##### **Year 2, Semester 2**

CNP426	Project Development*	6	2
CNP430	Current Issues*	9	3
CNP433	Project Management Law*	6	2

#### **PROPERTY DEVELOPMENT MAJOR**

##### **Full-Time Course Structure**

**Credit  
Points**

**Contact  
Hrs/Wk**

##### **Year 1, Semester 1**

CNP422	Specialist Valuation	6	2
CNP426	Project Development*	6	2
CNP430	Current Issues*	9	3

\* Subject extends over two semesters.

CNP431	Project Management*	6	2
CNP433	Project Management Law*	6	2
CNP438	Real Estate Investment Analysis*	6	2
CNP439	Property Management	6	2

### Year 1, Semester 2

CNP426	Project Development*	6	2
CNP430	Current Issues*	9	3
CNP431	Project Management*	6	2
CNP433	Project Management Law*	6	2
CNP437	Field Trip	12	5 days
CNP438	Real Estate Investment Analysis*	6	2
CNP667	Applied Computing	6	2

### Part-Time Course Structure

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

### Year 1, Semester 1

CNP426	Project Development*	6	2
CNP431	Project Management*	6	2
CNP438	Real Estate Investment Analysis*	6	2

### Year 1, Semester 2

CNP426	Project Development*	6	2
CNP431	Project Management*	6	2
CNP437	Field Trip	12	5 days
CNP438	Real Estate Investment Analysis*	6	2

### Year 2, Semester 1

CNP422	Specialist Valuation	6	2
CNP430	Current Issues*	9	3
CNP433	Project Management Law*	6	2

### Year 2, Semester 2

CNP430	Current Issues*	9	3
CNP433	Project Management Law*	6	2
CNP667	Applied Computing	6	2

## ■ Graduate Diploma in Surveying Practice (SV68)

**Location:** Gardens Point campus

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

**Total Credit Points:** 96

**Standard Credit Points/Full-Time Semester:** 48

**Course Coordinator:** Mr Ian McGhie

### 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.

\* Subject extends over two semesters.

## 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 School 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 School prior to enrolment in the course.

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

## ■ Graduate Diploma in Urban and Regional Planning (PL67)

**Location:** Gardens Point campus

**Course Duration:** 2 years full-time, 4 years part-time

**Total Credit Points:** 192

**Standard Credit Points/Full-Time Semester:** 48

**Course Coordinator:** Dr Brian Hudson

### Entry Requirements

To be eligible for admission, an applicant must:

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

Graduates of the Bachelor of 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

#### Year 1, Semester 1

		Credit Points	Contact Hrs/Wk
COP115	Professional Communication	5	2
PLP551	Land Use Generation	7	2
PLP552	Introduction to Graphics	5	2
PLP553	Site Planning Data & Techniques	3	1
PLP554	Site Planning Practice	12	3
PLP555	Theory of Site Planning	3	1
PLP557	Transport Planning	5	2
PLP562	Economics of Town Planning	5	2
PLP564	Introduction to Maps & Air Photos	3	1

#### Year 1, Semester 2

ISB183	Introduction to Computers in Planning	4	2
PLP565	Urban Land Development	3	1
PLP558	Population & Urban Studies	10	3
PLP559	Applied Natural Science	5	2
PLP560	History of Planning	3	1
PLP561	Urban Design	18	3
PLP566	Housing & Community Services	5	2

#### Year 2, Semester 1

PLP401	Rural Land Use & Planning	4	1
PLP403	Planning Processes	6	2
PLP404	Theories for Planning	4	2
PLP407	Urban Policy Processes	4	2
PLP408	Social & Political Structures	4	1
PLP409	Employment, Industry & Commerce	4	2
PLP411	Planning Practice & Law (Urban)	12	4
PLP413	Advanced Urban Structure	4	1
PLP414	Resource Management	6	2

#### Year 2, Semester 2

PLP402	Social Planning	4	1
PLP405	Procedural Planning Theory	4	1
PLP406	Professional Procedures & Ethics	4	1
PLP412	Planning Practice & Law (Regional & Strategic)	12	4
PLP415	Research Methods & Individual Project	10	2
PLP416	Urban Policy Implementation	4	1
PLP418	Computer Applications in Planning	6	2
PLP420	School Field Trip	4	-

### Part-Time Course Structure

#### Year 1, Semester 1

COP115	Professional Communication	5	2
PLP551	Land Use Generation	7	2
PLP552	Introduction to Graphics	5	2

PLP553	Site Planning Data & Techniques	3	1
PLP555	Theory of Site Planning	3	1
PLP562	Economics of Town Planning	5	2
PLP564	Introduction to Maps & Air Photos	3	1
<b>Year 1, Semester 2</b>			
ISB183	Introduction to Computers in Planning	4	2
PLP558	Population & Urban Studies	10	3
PLP559	Applied Natural Science	5	2
PLP560	History of Planning	3	1
PLP561	Urban Design	18	3
<b>Year 2, Semester 1</b>			
PLP409	Employment, Industry & Commerce	4	2
PLP554	Site Planning Practice	12	3
PLP557	Transport Planning	5	2
<b>Year 2, Semester 2</b>			
PLP565	Urban Land Development	3	1
PLP566	Housing & Community Services	5	2
<b>Year 3, Semester 1</b>			
PLP403	Planning Processes	6	2
PLP411	Planning Practice & Law (Urban)	12	4
PLP407	Urban Policy Processes	4	2
PLP408	Social & Political Structure	4	1
<b>Year 3, Semester 2</b>			
PLP412	Planning Practice & Law (Regional & Strategic)	12	4
PLP416	Urban Policy Implementation	4	1
PLP418	Computer Applications in Planning	6	2
PLP420	School Field Trip	4	-
<b>Year 4, Semester 1</b>			
PLP401	Rural Land Use & Planning	4	1
PLP404	Theories for Planning	4	2
PLP413	Advanced Urban Structures	4	1
PLP414	Resource Management	6	2
<b>Year 4, Semester 2</b>			
PLP402	Social Planning	4	1
PLP405	Procedural Planning Theory	4	1
PLP406	Professional Procedures & Ethics	4	1
PLP415	Research Methods & Individual Project	10	2

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

**Location:** Gardens Point campus

**Course Duration:** 3 years full-time

**Total Credit Points:** 288



## Standard Credit Points/Full-Time Semester: 48

### Course Coordinators:

Planning and Landscape Architecture – Professor Phil Heywood

Interior and Industrial Designer – Professor Bill Lim

### Majors Coordinators:

Architectural Studies – Professor Bill Lim

Industrial Design – Associate Professor Vesna Popovic

Interior Design – Mr Peter Hedley

Landscape Architecture – Ms Delwynn Poulton

Urban and Regional Planning – Ms Janelle Brown

### Professional Recognition

#### ARCHITECTURAL STUDIES MAJOR

The Bachelor of Built Environment (Architectural Studies) must be completed before students are eligible to apply for entry to the fourth year of the part-time Bachelor of Architecture course.

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

#### INDUSTRIAL DESIGN MAJOR

Successful completion of the Bachelor of Built Environment (Industrial Design) satisfies the entry requirement for the Graduate Diploma in Industrial Design - graduates of which are eligible for Associate Membership of the Design Institute of Australia.

#### INTERIOR DESIGN MAJOR

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

#### LANDSCAPE ARCHITECTURE MAJOR

Successful performance in the Bachelor of Built Environment (Landscape Architecture) enables students to gain entry to the Graduate Diploma course. The Graduate Diploma in Landscape Architecture is the only course in Landscape Architecture in Queensland, and one of the courses in Landscape Architecture accredited by the Australian Institute of Landscape Architects.

#### URBAN AND REGIONAL PLANNING MAJOR

Successful completion of the Bachelor of Built Environment (Urban and Regional Planning) enables students to gain entry to the Graduate Diploma in Urban and Regional Planning, which is fully accredited by the Royal Australian Planning Institute.

### Full-Time Course Structure

**Credit  
Points**

**Contact  
Hrs/Wk**

#### ARCHITECTURAL STUDIES MAJOR

##### Year 1, Semester 1

ARB140	Introductory Design 1	16	8
ARB141	The Human Environment 1	4	2
COB139	Writing for Designers 1	4	2
LSB113	Environmental Science	4	2
MAB181	Applied Mathematics for Designers 1	6	3
PHB144	Applied Science for Designers 1	6	3
PLB102	History of the Built Environment 1	6	3
SVB001	Surveying & Mapping	2	1

**Year 1, Semester 2**

ARB241	History of the Built Environment 2	10	5
CHB292	Applied Science for Designers 2	4	2
COB140	Writing for Designers 2	4	2
MAB182	Applied Mathematics for Designers 2	6	3
PLB200	Introductory Design 2	18	8
PLB201	The Human Environment 2	4	2
PLB209	Applied Land Science for Designers	2	1

**Year 2, Semester 1**

ARB340	Architectural Design 1	18	8
ARB341	Building Construction 1	16	6
ARB342	Design Science 1	2	1
ARB343	Visual Communication for Architects 1	4	2
CEB359	Principles of Structure 1	2	1
PLB301	The Human Environment 3	6	3

**Year 2, Semester 2**

ARB440	Architectural Design 2	20	6
ARB441	Building Construction 2	10	5
ARB442	Design Science 2	2	1
ARB443	Visual Communication for Architects 2	4	2
ARB444	Environmental Studies - Environmental Impacts	2	1
CEB459	Principles of Structure 2	4	2
PLB401	The Human Environment 4	4	2
PLB440	Introduction to Economics	2	1

**Year 3, Semester 1**

ARB540	Architectural Design 3	20	6
ARB541	Building Construction 3	17	6
ARB542	Design Science 3	3	1
ARB545	Building Services 1	4	2
CEB559	Principles of Structure 3	4	2

**Year 3, Semester 2**

ARB640	Architectural Design 4	20	6
ARB641	Building Construction 4	14	6
ARB642	Design Science 4	2	1
ARB645	Building Services 2	4	2
ARB646	Law of the Built Environment	4	2
CEB659	Principles of Structure 4	4	2

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

ARB140	Introductory Design 1	16	8
ARB141	The Human Environment 1	4	2
ARB151	Introduction to Technology	2	1
COB139	Writing for Designers 1	4	2
LSB113	Environmental Science	4	2
MAB181	Applied Mathematics for Designers 1	6	3
PHB144	Applied Science for Designers 1	6	3
PLB102	History of the Built Environment 1	6	3

**Year 1, Semester 2**

ARB241	History of the Built Environment 2	10	5
ARB251	Ergonomics for Industrial Designers 1	2	2
CHB292	Applied Science for Designers 2	4	2
COB140	Writing for Designers 2	4	2
MAB182	Applied Mathematics for Designers 2	6	3
PLB200	Introductory Design 2	18	8
PLB201	The Human Environment 2	4	2

### Year 2, Semester 1

ARB350	Industrial Design 1	18	8
ARB351	Ergonomics for Industrial Designers 2	4	2
ARB352	Visual Communication for Industrial Designers 1	4	2
ARB353	Manufacturing Technology 1	12	6
ARB354	CAD for Industrial Designers 1	4	2
PLB301	The Human Environment 3	6	3

### Year 2, Semester 2

ARB444	Environmental Studies - Environmental Impacts	2	1
ARB450	Industrial Design 2	20	6
ARB452	Visual Communication for Industrial Designers 2	4	2
ARB453	Manufacturing Technology 2	10	5
ARB454	CAD for Industrial Designers 2	4	2
MEB010	Dynamics 1	4	2
PLB401	The Human Environment 4	4	2

### Year 3, Semester 1

ARB550	Industrial Design 3	20	6
ARB552	Visual Communication for Industrial Designers 3	4	2
ARB553	Manufacturing Technology 3	8	3
ARB554	CAD for Industrial Designers 3	4	2
ARB555	Economics of Industrial Production	4	2
MKB160	Marketing	4	2
MEB012	Dynamics 2	4	2

### Year 3, Semester 2

ARB646	Law of the Built Environment	4	2
ARB650	Industrial Design 4	20	6
ARB652	Visual Communication for Industrial Designers 4	4	2
ARB653	Manufacturing Technology 4	14	5
ARB654	CAD for Industrial Designers 4	6	2

## INTERIOR DESIGN MAJOR

### Year 1, Semester 1

ARB140	Introductory Design 1	16	8
ARB141	The Human Environment 1	4	2
ARB161	Light & Colour Studies	8	2
COB139	Writing for Designers 1	4	2
LSB113	Environmental Science	4	2
PHB144	Applied Science for Designers 1	6	3
PLB102	History of the Built Environment 1	6	3

### Year 1, Semester 2

ARB241	History of the Built Environment 2	10	5
ARB261	Introduction to Interior Technology	8	3
CHB292	Applied Science for Designers 2	4	2
COB140	Writing for Designers 2	4	2
PLB200	Introductory Design 2	18	8
PLB201	The Human Environment 2	4	2

### Year 2, Semester 1

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

### Year 2, Semester 2

ARB444	Environmental Studies - Environmental Impacts	2	1
ARB460	Interior Design 2	20	6
ARB461	Interior Technology 2	10	5

ARB462	Furniture & Fittings 2	4	2
ARB463	Visual Communication for Interior Designers 2	4	2
ARB464	Architectural Interior Systems 1	4	2
PLB401	The Human Environment 4	4	2
<b>Year 3, Semester 1</b>			
ARB560	Interior Design 3	20	6
ARB561	Interior Technology 3	16	6
ARB562	Furniture & Fittings 3	4	2
ARB563	Visual Communication for Interior Designers 3	4	2
ARB564	Architectural Interior Systems 2	4	2
<b>Year 3, Semester 2</b>			
ARB646	Law of the Built Environment	4	2
ARB660	Interior Design 4	20	6
ARB661	Interior Technology 4	16	6
ARB662	Furniture & Fittings 4	4	2
ARB663	Research Methods	4	2
<b>LANDSCAPE ARCHITECTURE MAJOR</b>			
<b>Year 1, Semester 1</b>			
ARB140	Introductory Design 1	16	8
ARB141	The Human Environment 1	4	2
COB139	Writing for Designers 1	4	2
LSB113	Environmental Science	4	2
MAB195	Quantitative Methods 1	6	3
PHB144	Applied Science for Designers 1	6	3
PLB102	History of the Built Environment 1	6	3
PLB135	Map & Air Photo Interpretation	2	1
<b>Year 1, Semester 2</b>			
ARB241	History of the Built Environment 2	10	5
CHB292	Applied Science for Designers 2	4	2
COB140	Writing for Designers 2	4	2
MAB196	Quantitative Methods 2	6	3
PLB200	Introductory Design 2	18	8
PLB201	The Human Environment 2	4	2
PLB209	Applied Land Science for Designers	2	1
<b>Year 2, Semester 1</b>			
COB133	Oral Presentation	3	1
LSB345	Introduction to Ecology	8	4
PLB300	Planning & Landscape Design 1	18	8
PLB301	The Human Environment 3	6	3
PLB340	Site Measurement	4	1
PLB343	Introduction to the Professions	3	1
PLB346	Graphic Communication	6	3
<b>Year 2, Semester 2</b>			
PLB400	Planning & Landscape Design 2	20	6
PLB401	The Human Environment 4	4	2
PLB408	Design Science	4	2
PLB409	Computer Techniques	4	2
PLB411	Landscape Ecology	8	3
PLB414	Population & Urban Studies	6	3
PLB440	Introduction to Economics	2	1
<b>Year 3, Semester 1</b>			
PLB442	Quantities & Costs	2	1
PLB500	Planning & Landscape Design 3	20	6
PLB511	Landscape Construction	6	3
PLB546	Land Development 1	8	3

PLB547	Land Use Generation	4	2
PLB562	Report Preparation	2	1
PLB565	Landscape Graphics	6	2

### **Year 3, Semester 2**

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

## **URBAN AND REGIONAL PLANNING MAJOR**

### **Year 1, Semester 1**

ARB140	Introductory Design 1	16	8
ARB141	The Human Environment 1	4	2
COB139	Writing for Designers 1	4	2
LSB113	Environmental Science	4	2
MAB195	Quantitative Methods 1	6	3
PHB144	Applied Science for Designers 1	6	3
PLB102	History of the Built Environment 1	6	3
PLB135	Map & Air Photo Interpretation	2	1

### **Year 1, Semester 2**

ARB241	History of the Built Environment 2	10	5
CHB292	Applied Science for Designers 2	4	2
COB140	Writing for Designers 2	4	2
MAB196	Quantitative Methods 2	6	3
PLB200	Introductory Design 2	18	8
PLB201	The Human Environment 2	4	2
PLB209	Applied Land Science for Designers	2	1

### **Year 2, Semester 1**

COB133	Oral Presentation	3	1
LSB345	Introduction to Ecology	8	4
PLB300	Planning & Landscape Design 1	18	8
PLB301	The Human Environment 3	6	3
PLB340	Site Measurement	4	1
PLB343	Introduction to the Professions	3	1
PLB346	Graphic Communication	6	3

### **Year 2, Semester 2**

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

### **Year 3, Semester 1**

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

### **Year 3, Semester 2**

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

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

**Location:** Gardens Point campus

**Course Duration:** 6 years part-time, 2 years full-time plus 2 years part-time

**Total Credit Points:** 289

**Standard Credit Points/Full-Time Semester:** 48.17

**Course Coordinator:** Mr Gary Thomas

### **Special Course Requirements**

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

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

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

For the first year of the part-time course a whole day release from employment is required.

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

<b>Full-Time/Part-Time Course Structure</b>		<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
<b>Year 1, Semester 1</b>			
CNB103	Material Science 1	4	2
CNB143	Structures 1	4	2
CNB151	Construction 1	12	6
CNB342	Law 2 - Principles & Property	3	1.5
COB141	Communications	4	2
MAB297	Mathematics for Construction	4	2
SSB908	Behavioural Science	6	3
SVB101	Surveying & Measuring	4	2
<b>Year 1, Semester 2</b>			
CNB104	Material Science 2	4	2
CNB131	Measurement of Construction 1A	6	3
CNB144	Structures 2	4	2
CNB154	Construction 2	14	7
CNB343	Economics of the Construction Industry	4	2

CNB345	Hygiene & Sanitation	6	3
ISB180	Computer Applications	4	2
SVB203	Project Survey	4	2

### Year 2, Semester 1

CNB013	Building Services 1 - HVAC	4	2
CNB245	Measurement of Construction 1B	6	3
CNB247	Material Science 3	4	2
CNB253	Construction 3	10	5
CNB257	Structures 3	4	2
CNB403	Building Management 1	4	2
CNB440	Law 3 - Building Contracts*	3	1
CNB442	Valuation & Dilapidations*	4	2
CNB443	Building Services 3	5	2.5
CNB601	Formwork Design & Construction	4	2

### Year 2, Semester 2

CNB014	Building Services 2 - Electrical	4	2
CNB243	Law 1 - Building Acts & Regulations	5	2
CNB246	Measurement of Construction 2B	8	4
CNB254	Construction 4	12	6
CNB258	Structures 4	4	2
CNB404	Building Management 2	4	2
CNB405	Project Equipment & Safety	4	2
CNB440	Law 3 - Building Contracts*	3	1
CNB442	Valuation & Dilapidations*	2	1
CNB446	Estimating 1	5	2.5

### Year 3, Semester 1

CNB341	Building & Civil Engineering Construction	4	2
CNB444	Mechanical & Electrical Estimating	4	2
	OR		
	Elective	4	
CNB529	PM2 - Quantitative Techniques	5	2.5
CNB540	Estimating 2	5	2.5
CNB547	PM3 - Construction Planning Techniques 1	5	2.5
FNB101	Building Financial Management 1	4	2

### Year 3, Semester 2

CNB301	PM1 - Advanced Construction Methods	4	2
CNB406	Building Financial Management 2	4	2
CNB543	Law 4 - Torts & Arbitrations	3	1.5
CNB548	PM4 - Construction Planning Techniques 2	8	4
CNB550	PM5 - Project Cost Control	6	3

### Year 4, Semester 1

CEB701	Civil Engineering Quantities 1	4	2
	OR		
	Elective	4	
CNB623	PM6 - Building Development Techniques 1	4	2
CNB642	Applied Computer Techniques	6	3
CNB656	Building Research*	8	4
HRB112	Industrial Relations	4	2

### Year 4, Semester 2

CNB401	Building Economics & Cost Planning	4	2
CNB606	PM8 - Land Development Studies	4	2
CNB624	PM7 - Building Development Techniques 2	4	2
CNB643	Law 5 - Commercial Law	3	1.5
	OR		
	Elective	3	
CNB656	Building Research*	10	5

\* Subject extends over two semesters.

Part-Time Course Structure		Credit Points	Contact Hrs/Wk
<b>Year 1, Semester 1</b>			
CNB103	Material Science 1	4	2
CNB143	Structures 1	4	2
CNB151	Construction 1	12	6
MAB297	Mathematics for Construction	4	2
<b>Year 1, Semester 2</b>			
CNB104	Material Science 2	4	2
CNB144	Structures 2	4	2
CNB154	Construction 2	14	7
ISB180	Computer Applications	4	2
<b>Year 2, Semester 1</b>			
CNB005	Measurement of Construction 1	6	3
CNB247	Material Science 3	4	2
CNB253	Construction 3	10	5
CNB257	Structures 3	4	2
COB141	Communications	4	2
<b>Year 2, Semester 2</b>			
CNB006	Measurement of Construction 2	6	3
CNB243	Law 1 - Building Acts & Regulations	5	2
CNB254	Construction 4	12	6
CNB258	Structures 4	4	2
<b>Year 3, Semester 1</b>			
CNB009	Measurement of Construction 3	4	2
CNB013	Building Services 1 - HVAC	4	2
CNB341	Building & Civil Engineering Construction	4	2
CNB342	Law 2 - Principles & Property	3	1.5
SSB908	Behavioural Science	6	3
SVB101	Surveying & Measuring	4	2
<b>Year 3, Semester 2</b>			
CNB010	Measurement of Construction 4	4	2
CNB014	Building Services 2 - Electrical	4	2
CNB345	Hygiene & Sanitation	6	3
CNB405	Project Equipment & Safety	4	2
SVB203	Project Survey	4	2
<b>Year 4, Semester 1</b>			
CNB403	Building Management 1	4	2
CNB440	Law 3 - Building Contracts*	3	1
CNB442	Valuation & Dilapidations*	4	2
CNB443	Building Services 3	5	2.5
CNB444	Mechanical & Electrical Estimating	4	2
	OR		
	Elective	4	
CNB601	Formwork Design & Construction	4	2
<b>Year 4, Semester 2</b>			
CNB301	PM1 - Advanced Construction Methods	4	2
CNB343	Economics of the Construction Industry	4	2
	OR		
	Elective		
CNB404	Building Management 2	4	2
CNB440	Law 3 - Building Contracts*	3	1

\* Subject extends over two semesters.



CNB442	Valuation & Dilapidations*	2	1
CNB446	Estimating 1	5	2.5

### Year 5, Semester 1

CEB701	Civil Engineering Quantities OR Elective	4	2
CNB529	PM2 - Quantitative Techniques	5	2.5
CNB540	Estimating 2	5	2.5
CNB547	PM3 - Construction Planning Techniques 1	5	2.5
FNB101	Building Financial Management 1	4	2

### Year 5, Semester 2

CNB401	Building Economics & Cost Planning	4	2
CNB406	Building Financial Management 2	4	2
CNB543	Law 4 - Torts & Arbitrations	3	1.5
CNB548	PM4 - Construction Planning Techniques 2	8	4
CNB550	PM5 - Project Cost Control	6	3

### Year 6, Semester 1

CNB623	PM6 - Building Development Techniques 1	4	2
CNB642	Applied Computer Techniques	6	3
CNB656	Building Research*	8	4
HRB112	Industrial Relations	4	2

### Year 6, Semester 2

CNB606	PM8 - Land Development Studies	4	2
CNB624	PM7 - Building Development Techniques 2	4	2
CNB643	Law 5 - Commercial Law OR Elective	3	1.5
CNB656	Building Research*	10	5

## ■ Bachelor of Applied Science (Property Economics) (CN32)

**Location:** Gardens Point campus

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

**Total Credit Points:** 288

**Standard Credit Points/Full-Time Semester:** 49.83

**Course Coordinator:** Mr Terry Boyd

### Professional Recognition

Completion of the undergraduate course together with the related experience requirements make a graduate eligible for membership of the Australian Institute of Valuers and Land Economists, registration by the Valuers Registration Board of Queensland and licencing as a real estate agent.

### Special Course Requirement

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

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

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

<b>Full-Time Course Structure</b>		<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
<b>Year 1, Semester 1</b>			
CNB161	Building Studies 1	14	5.5
CNB263	Valuation 1	8	3
CNB367	Real Estate - Accounting 1	4	2
COB141	Communications	4	2
EPB140	Macroeconomics	12	3
MAB298	Mathematics & Statistics	4	2
PLB663	Urban Planning 1	4	2
SVB101	Surveying & Measuring	4	2
<b>Year 1, Semester 2</b>			
CNB162	Building Studies 2	9	3.5
CNB164	Building Services 1A	6	2.5
CNB166	Urban Economics	4	2
CNB268	Valuation 2	8	3
CNB362	Property Marketing	7	3
CNB368	Real Estate - Accounting 2	7	3
ISB180	Computer Applications	4	2
PLB441	Urban Planning 2	4	2
<b>Year 2, Semester 1</b>			
CNB261	Building Studies 3	8	3
CNB342	Law 2 - Principles & Property	3	1.5
CNB363	Valuation 3	8	3
CNB465	Property Investment Analysis 1	8	3
CNB665	Property Management 1	8	3
CNB668	Law 6 - Valuation of Land	4	2
SSB908	Behavioural Science	6	3
<b>Year 2, Semester 2</b>			
CNB262	Building Studies 4	8	3
CNB364	Valuation 4	8	3
CNB464	Valuation 5 - Rural	8	3
CNB466	Property Investment Analysis 2	8	3
CNB471	Law 7 - Property Practice Law	6	2.5
CNB626	Land Development Studies	4	2
CNB643	Law 5 - Commercial Law	3	1.5
CNB666	Property Management 2	8	3
<b>Year 3, Semester 1</b>			
CNB470	Valuation 6 - Rural	8	3
CNB561	Property Maintenance	8	3
CNB563	Valuation - Advanced 1	8	3
CNB565	Time Management	8	3
CNB567	Real Estate Practice 1	4	2
CNB661	Elective Research Project 1	8	4
CNB663	Project Development Process 1	5	2
<b>Year 3, Semester 2</b>			
CNB472	Property Taxation Issues	3	1.5
CNB543	Law 4 - Torts & Arbitrations	3	1.5
CNB564	Valuation - Advanced 2	8	3
CNB568	Real Estate Practice 2	5	2.5
CNB662	Elective Research Project 2	8	4
CNB664	Project Development Process 2	5	2
CNB667	Applied Computer Techniques	6	3

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

CNB161	Building Studies 1	14	5.5
EPB140	Macroeconomics	12	3
MAB298	Mathematics & Statistics	4	2

**Year 1, Semester 2**

CNB162	Building Studies 2	9	3.5
CNB164	Building Services 1A	6	2.5
CNB166	Urban Economics	4	2
ISB180	Computer Applications	4	2

**Year 2, Semester 1**

CNB261	Building Studies 3	8	3
CNB263	Valuation 1	8	3
CNB342	Law 2 - Principles & Property	3	1.5
COB141	Communications	4	2

**Year 2, Semester 2**

CNB262	Building Studies 4	8	3
CNB268	Valuation 2	8	3
CNB362	Property Marketing	7	3
CNB626	Land Development Studies	4	2

**Year 3, Semester 1**

CNB363	Valuation 3	8	3
CNB367	Real Estate Accounting 1	4	2
CNB565	Time Management	8	3
PLB663	Urban Planning 1	4	2

**Year 3, Semester 2**

CNB364	Valuation 4	8	3
CNB368	Real Estate Accounting 2	7	3
CNB464	Valuation 5 - Rural	8	3
PLB441	Urban Planning 2	4	2

**Year 4, Semester 1**

CNB465	Property Investment Analysis 1	8	3
CNB470	Valuation 6 - Rural	8	3
SSB908	Behavioural Science	6	3
SVB101	Surveying & Measuring	4	2

**Year 4, Semester 2**

CNB466	Property Investment Analysis 2	8	3
CNB471	Law 7 - Property Practice Law	6	2.5
CNB543	Law 4 - Torts & Arbitrations	3	1.5
CNB643	Law 5 - Commercial Law	3	1.5

**Year 5, Semester 1**

CNB472	Property Taxation Issues	3	1.5
CNB561	Property Maintenance	8	3
CNB563	Valuation - Advanced 1	8	3
CNB567	Real Estate Practice 1	4	2

**Year 5, Semester 2**

CNB564	Valuation - Advanced 2	8	3
CNB568	Real Estate Practice 2	5	2.5
CNB667	Applied Computer Techniques	6	3

### **Year 6, Semester 1**

CNB661	Elective Research Project 1	8	4
CNB663	Project Development Process 1	5	2
CNB665	Property Management 1	8	3
CNB668	Law 6 - Valuation of Land	4	2

### **Year 6, Semester 2**

CNB662	Elective Research Project 2	8	4
CNB664	Project Development Process 2	5	2
CNB666	Property Management 2	8	3

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

**Location:** Gardens Point campus

**Course Duration:** 6 years part-time, 2 years full-time plus 2 years part-time

**Total Credit Points:** 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, enables a graduate to be eligible for membership of the Australian Institute of Quantity Surveying.

### **Special Course Requirements**

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

A student registered in the full-time study program must be similarly employed during the final two 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 5pm and 9.30pm.

For the first year of the part-time course a whole day release from employment is required.

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

<b>Full-Time/Part-Time Course Structure</b>		<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
<b>Year 1, Semester 1</b>			
CNB103	Material Science 1	4	2
CNB143	Structures 1	4	2
CNB151	Construction 1	12	6
CNB342	Law 2 - Principles & Property	3	1.5
CNB442	Valuation & Dilapidations*	4	2
COB141	Communications	4	2
FNB101	Building Financial Management 1	4	2

\* Subject extends over two semesters.

MAB297	Mathematics for Construction	4	2
SVB101	Surveying & Measuring	4	2

### Year 1, Semester 2

CNB104	Material Science 2	4	2
CNB131	Measurement of Construction 1A	6	3
CNB144	Structures 2	4	2
CNB154	Construction 2	14	7
CNB343	Economics of the Construction Industry	4	2
CNB345	Hygiene & Sanitation	6	3
CNB442	Valuation & Dilapidations*	2	1
ISB180	Computer Applications	4	2

### Year 2, Semester 1

CNB013	Building Services 1 - HVAC	4	2
CNB245	Measurement of Construction 1B	6	3
CNB247	Material Science 3	4	2
CNB253	Construction 3	10	5
CNB341	Building & Civil Engineering Construction	4	2
CNB403	Building Management 1	4	2
CNB440	Law 3 - Building Contracts*	3	1
CNB443	Building Services 3	5	2.5
CNB529	PM2 - Quantitative Techniques	5	2.5

### Year 2, Semester 2

CNB014	Building Services 2 - Electrical	4	2
CNB243	Law 1 - Building Acts & Regulations	5	2
CNB246	Measurement of Construction 2B	8	4
CNB254	Construction 4	12	6
CNB404	Building Management 2	4	2
CNB440	Law 3 - Building Contracts*	3	1
CNB446	Estimating 1	5	2.5
CNB543	Law 4 - Torts & Arbitrations	3	1.5
CNB643	Law 5 - Commercial Law	3	1.5
	OR		
	Elective	3	

### Year 3, Semester 1

CNB444	Mechanical & Electrical Estimating	4	2
	OR		
	Elective	4	
CNB451	Computer Software Applications 1	4	2
CNB461	Measurement of Construction 5	3	1.5
CNB540	Estimating 2	5	2.5
CNB547	PM3 - Construction Planning Techniques 1	5	2.5
HRB112	Industrial Relations	4	2

### Year 3, Semester 2

CNB301	PM1 - Advanced Construction Methods	4	2
CNB406	Building Financial Management 2	4	2
CNB462	Measurement of Construction 6	3	1.5
CNB520	Specifications	3	1.5
CNB524	Measurement of Construction 7	4	2
CNB526	Post Contract Services 1	5	2.5
CNB552	Office Management	2	1

### Year 4, Semester 1

CEB701	Civil Engineering Quantities 1	4	2
CNB623	PM6 - Building Development Techniques 1	4	2
CNB647	Cost Planning & Cost Control 1	4	2
CNB653	Post Contract Services 2	5	2.5
CNB656	Building Research*	8	4

\* Subject extends over two semesters.

**Year 4, Semester 2**

CEB801	Civil Engineering Quantities 2	3	1.5
CNB452	Computer Software Applications 2	4	2
CNB624	PM7 - Building Development Techniques 2	4	2
CNB648	Cost Planning & Cost Control 2	6	3
CNB656	Building Research*	10	5

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

CNB103	Material Science 1	4	2
CNB143	Structures 1	4	2
CNB151	Construction 1	12	6
MAB297	Mathematics for Construction	4	2

**Year 1, Semester 2**

CNB104	Material Science 2	4	2
CNB144	Structures 2	4	2
CNB154	Construction 2	14	7
ISB180	Computer Applications	4	2

**Year 2, Semester 1**

CNB005	Measurement of Construction 1	6	3
CNB247	Material Science 3	4	2
CNB253	Construction 3	10	5
COB141	Communications	4	2

**Year 2, Semester 2**

CNB006	Measurement of Construction 2	6	3
CNB243	Law 1 - Building Acts & Regulations	5	2
CNB254	Construction 4	12	6

**Year 3, Semester 1**

CNB009	Measurement of Construction 3	4	2
CNB013	Building Services 1 - HVAC	4	2
CNB341	Building & Civil Engineering Construction	4	2
CNB342	Law 2 - Principles & Property	3	1.5
CNB442	Valuation & Dilapidations*	4	2
SVB101	Surveying & Measuring	4	2

**Year 3, Semester 2**

CNB010	Measurement of Construction 4	4	2
CNB014	Building Services 2 - Electrical	4	2
CNB343	Economics of the Construction Industry OR Elective	4	2
CNB345	Hygiene & Sanitation	6	3
CNB442	Valuation & Dilapidations*	2	1
CNB520	Specification	3	1.5

**Year 4, Semester 1**

CEB701	Civil Engineering Quantities 1	4	2
CNB403	Building Management 1	4	2
CNB440	Law 3 - Building Contracts*	3	1
CNB443	Building Services 3	5	2.5
CNB451	Computer Software Applications 1	4	2
CNB461	Measurement of Construction 5	3	1.5

\* Subject extends over two semesters.

### Year 4, Semester 2

CEB801	Civil Engineering Quantities 2	3	1.5
CNB301	PM1 - Advanced Construction Methods	4	2
CNB404	Building Management 2	4	2
CNB440	Law 3 - Building Contracts*	3	1
CNB446	Estimating 1	5	2.5
CNB462	Measurement of Construction 6	3	1.5

### Year 5, Semester 1

CNB444	Mechanical & Electrical Estimating OR Elective	4	2
CNB529	PM2 - Quantitative Techniques	5	2.5
CNB540	Estimating 2	5	2.5
CNB547	PM3 - Construction Planning Techniques 1	5	2.5
FNB101	Building Financial Management 1	4	2

### Year 5, Semester 2

CNB406	Building Financial Management 2	4	2
CNB524	Measurement of Construction 7	4	2
CNB526	Post Contract Services 1	5	2.5
CNB543	Law 4 - Torts & Arbitrations	3	1.5
CNB552	Office Management	2	1
CNB643	Law 5 - Commercial Law OR Elective	3 3	1.5

### Year 6, Semester 1

CNB623	PM6 - Building Development Techniques 1	4	2
CNB647	Cost Planning & Cost Control 1	4	2
CNB653	Post Contract Services 2	5	2.5
CNB656	Building Research*	8	4
HRB112	Industrial Relations	4	2

### Year 6, Semester 2

CNB452	Computer Software Applications 2	4	2
CNB624	PM7 - Building Development Techniques 2	4	2
CNB648	Cost Planning & Cost Control 2	6	3
CNB656	Building Research*	10	5

## ■ Bachelor of Architecture (AR41)

**Location:** Gardens Point campus

**Course Duration:** 6 years part-time

**Total Credit Points:** 288

**Standard Credit Points/Full-Time Semester:** 48

**Course Coordinator:** Professor Bill Lim

### Professional Recognition

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

\* Subject extends over two semesters.

## Special Course Requirements

- (i) Except as provided in (ii) below, a student must be engaged in approved employment for 11 months per year for four of the six years of the course, including one of the two final years. Approved employment is defined as working under the direction of an architect or, for a period not exceeding six months, gaining experience in a related field approved by the Head of School. Students should work under the same employer for at least six months.
- (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 1.

Part-Time Course Structure		Credit Points	Contact Hrs/Wk
<b>Year 1, Semester 1</b>			
ARB191	The Human Environment 1	4	2
ARB193	Design 1	10	5
ARB195	Technology 1	4	2
ARB197	History of the Built Environment 1	2	1
COB130	Writing for Designers 1	4	2
<b>Year 1, Semester 2</b>			
ARB194	Design 2	10	5
ARB196	Technology 2	4	2
ARB198	History of the Built Environment 2	2	1
COB131	Writing for Designers 2	4	2
COB132	The Human Environment 2	4	2
<b>Year 2, Semester 1</b>			
ARB289	Design Science 1	2	1
ARB291	The Human Environment 3	4	2
ARB293	Design 3	10	5
ARB295	Building Construction 1	4	2
ARB297	Principles of Structures 1	2	1
ARB299	Introduction to Computing 1	2	1
<b>Year 2, Semester 2</b>			
ARB288	Design Science 2	2	1
ARB290	Introduction to Computing 2	2	1
ARB292	The Human Environment 4	4	2
ARB294	Design 4	8	4
ARB296	Building Construction 2	4	2
ARB298	Principles of Structures 2	4	2
<b>Year 3, Semester 1</b>			
ARB387	Environmental Impact Studies	2	1
ARB389	Design Science 3	4	2
ARB391	Building Services 1	4	1.5
ARB393	Design 5	8	4
ARB395	Building Construction 3	3	1.5
ARB397	Principles of Structures 3	3	2
<b>Year 3, Semester 2</b>			
ARB386	Law of the Built Environment	4	2
ARB388	Design Science 4	2	1
ARB392	Building Services 2	3	1.5
ARB394	Design 6	8	4
ARB396	Building Construction 4	3	1.5
ARB398	Principles of Structures 4	4	2



### Year 4, Semester 1

ARB491	History of Architecture & Art 3*	2	1
ARB493	Design 7*	10	5
ARB495	Professional Studies 1*	8	4
ARB497	Advanced Technology*	4	2

### Year 4, Semester 2

ARB491	History of Architecture & Art 3*	2	1
ARB493	Design 7*	10	5
ARB495	Professional Studies 1*	8	4
ARB497	Advanced Technology*	4	2

### Year 5, Semester 1

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

### Year 5, Semester 2

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

### Year 6, Semester 1

ARB693	Design 9	16	5
ARB695	Professional Studies 3*	4	2
ARB697	Elective 2*	4	2

### Year 6, Semester 2

ARB695	Professional Studies 3*	4	2
ARB697	Elective 2*	20	5

### Approved Employment Subjects

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

## ■ Special notes relating to Honours and With Distinction in courses in the Faculty of Built Environment and Engineering

### Field Trips

Field trips or field projects in the Engineering courses 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.

\* Subject extends over two semesters.

'With Distinction' may be awarded in the Bachelor of Applied Science courses, Bachelor of Built Environment, and in the Graduate Diploma and Associate Diploma courses. The award 'With Distinction' depends on proficiency shown in normal assessment for each course offered. There are no additional requirements.

### **Honours and With Distinction Based on Grade Point Average**

The Faculty of Built Environment and 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 (GPA) 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 student's 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 must obtain a GPA of 5.5 or greater.

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 the first, second and third years of the full-time course or first, third and fifth years of the part-time course. In addition, students in the Bachelor of Engineering (Aerospace Avionics) degree, are required to obtain two weeks specialist experience during the first year of their course.

As a minimum requirement any employment is suitable for credit towards Industrial Experience 1. Employment in any engineering firm may be credited towards Industrial Experience 2 whilst the requirement for Industrial Experience 3 is that employment must be obtained in the specialty engineering area being studied i.e. 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 the Faculty office. In addition civil engineering students must submit written report(s) covering the experience claimed for Industrial Experience 2 and Industrial Experience 3. A booklet outlining the requirements is available from the Civil Engineering office in 'L' Block, Gardens Point campus.

## ■ Bachelor of Applied Science (Surveying) (SV34)

**Location:** Gardens Point campus

**Course Duration:** 3 years full-time

**Total Credit Points:** 288

**Standard Credit Points/Full-Time Semester:** 48

**Course Coordinator:** Mr Brian Hannigan

### 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 Requirements

For successful completion of the course a student must have completed at least 18 weeks of approved employment. For the employment to be recognised, the student must 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
<b>Year 1, Semester 1</b>			
CSB294	Computer Programming	6	3
MAB199	Survey Mathematics 1	12	6
SVB111	Data Presentation 1	6	3
SVB121	Land Surveying 1	13	6
SVB282	Seminar 1	5	2
SVB352	Land Studies A*	6	3
<b>Year 1, Semester 2</b>			
MAB495	Survey Mathematics 2	12	6
MAB499	Basic Statistics for Surveyors	5	2
SVB199	Industrial Experience 1		6 weeks
SVB211	Data Presentation 2	6	3
SVB226	Land Surveying 2	13	6
SVB270	Land Administration 1	6	3
SVB352	Land Studies A*	6	3

At the end of Year 1, Semester 2, students must select either the Surveying or Cartography Major and must obtain vacation practice in that area.

### SURVEYING MAJOR

#### Year 2, Semester 1

MAB795	Survey Mathematics 3	6	3
PHB170	Physics for Surveyors	12	6
SVB311	Data Presentation 3	5	3
SVB331	Observations & Adjustments 1	4	2
SVB393	Land Surveying 3	10	5
SVB473	Land Information Systems 1	5	3
SVB573	Land Administration 3	6	3

\* Subject extends over two semesters.

**Year 2, Semester 2**

CEB364	Engineering Science 2	6	3
SVB299	Industrial Experience 2		6 weeks
SVB343	Photogrammetry 1	6	3
SVB412	Cartographic Practice	5	3
SVB430	Land Surveying 4	9	4
SVB431	Observations & Adjustments 2	4	2
SVB442	Geodetic Computations	9	4
SVB451	Land Studies B	5	3
SVB574	Land Administration 4	4	2

**Year 3, Semester 1**

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

**Year 3, Semester 2**

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

**CARTOGRAPHY MAJOR****Year 2, Semester 1**

MAB795	Survey Mathematics 3	6	3
PHB170	Physics for Surveyors	12	6
SVB311	Data Presentation 3	5	3
SVB331	Observations & Adjustments 1	4	2
SVB473	Land Information Systems 1	5	3
SVB573	Land Administration 3	6	3
SVB911	Graphic Design 1	10	5

**Year 2, Semester 2**

SVB299	Industrial Experience 2		6 weeks
SVB343	Photogrammetry 1	6	3
SVB412	Cartographic Practice	5	3
SVB431	Observations & Adjustments 2	4	2
SVB442	Geodetic Computations	9	4
SVB451	Land Studies B	5	3
SVB574	Land Administration 4	4	2
SVB912	Graphic Design 2	9	4

**Year 3, Semester 1**

SVB443	Photogrammetry 2	11	6
SVB470	Land Administration 2	4	2
SVB561	Land Development Practice 1	10	6
SVB563	Land Information Systems 2	4	2
SVB571	Cadastre	4	2
SVB685	Project*	8	4

\* Subject extends over two semesters.

### Year 3, Semester 2

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

### Electives

CEB504	Engineering Science 3	5	3
SVB634	Topics in Engineering Surveying	5	3
SVB643	Photogrammetry 3	5	3
SVB645	Remote Sensing	5	3
SVB670	Land Administration 5	5	3
SVB684	Map Production Planning	5	3
SVB694	Geodesy 2	5	3

## ■ Bachelor of Engineering (Aerospace Avionics) (EE43)

**Location:** Gardens Point campus

**Course Duration:** 4 years full-time

**Total Credit Points:** 384

**Standard Credit Points/Full-Time Semester:** 48

**Course Coordinator:** Professor Miles Moody

Course Structure	Credit Points	Contact Hrs/Wk
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### Year 1, Semester 1

BNB001	Learning at University	2	1
CHB002	Introduction to Engineering Chemistry*	2	1
CEB102	Civil Engineering 1	2	1
CEB184	Engineering Mechanics 1	7	3
COB137	English for Technologists	6	3
CSB191	Introduction to Computing	4	2
EEB101	Circuits & Measurements	7	3
EEB107	Aeronautical Industrial Experience 1		2 weeks
MAB193	Engineering Mathematics 1+	6	3
MEB121	Engineering Graphics	6	3
MEB171	Introduction to Manufacturing	2	1
PHB132	Engineering Physics 1A	6	3

### Year 1, Semester 2

CEB185	Engineering Mechanics 2	7	3
EEB202	Electromagnetics	6	3
EEB203	Circuit Analysis	5	3
EEB206	Industrial Experience 1		5 weeks
EEB371	Electronic Devices	5	3
MAB193	Engineering Mathematics 1	6	3
MEB111	Dynamics	7	3
MEB133	Materials 1	6	1.5
PHB232	Engineering Physics 2	6	3

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

+ Subject extends over two semesters

**Year 2, Semester 1**

COB142	Communication for Engineers	2	1
CSB490	Software Engineering	6	3
EEB303	Network Theory 1	7	3
EEB361	Signals & Systems	7	3
EEB373	Digital Electronics Principles	6	3
EEB471	Electronics	7	3
MAB493	Engineering Mathematics 2*	6	3
MEB362	Thermo-Fluids	7	3

**Year 2, Semester 2**

EEB401	Network Theory 2	6	3
EEB407	Aeronautical Industrial Experience 2		5 weeks
EEB430	Engineering Fields	6	3
EEB473	Integrated Circuits	6	3
EEB474	Microprocessors	6	3
EEB520	Control Engineering	6	3
EEB561	Analogue Communications	6	3
MAB493	Engineering Mathematics 2*	6	3
MEB454	Aerodynamics 1	6	3

**Year 3, Semester 1**

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

**Year 3, Semester 2**

EEB607	Aeronautical Industrial Experience 3		5 weeks
EEB662	Microwave & Antenna Technology	7	3
EEB680	Aerospace Design 2	6	3
EEB691	Aeronautical Computing	6	3
EEB967	Digital Communications	6	3
EEB968	Digital Signal Processing	7	3
MAB894	Engineering Mathematics 4	6	3
MEB551	Propulsion & Engines	5	3
MEB611	Stability & Control of Aircraft	5	3

**Year 4, Semester 1**

EEB722	Flight Control Systems	6	3
EEB780	Aerospace Design 3	6	3
EEB784	Aerospace Project*	12	6
EEB947	Radar & Radio Navigational Aids	6	3
MEB790	Spacecraft & Satellite Design	6	3
SVB645	Remote Sensing	5	3
	One Elective	7	3

**Year 4, Semester 2**

EEB601	Real Time Operating Systems	6	3
EEB784	Aerospace Project*	15	6
EEB880	Aerospace Design 4	7	3
MEB740	Maintenance Management & Technology	6	3
	Two Electives	14	6

**Electives**

EEB934	Advanced Communications & Navigation Systems	7	3
EEB932	Automatic Flight Control	7	3

\* Subject extends over two semesters.

EEB933	Combat Systems	7	3
EEB935	Advanced Satellite Systems	7	3
EEB980	Aerospace Law	7	3
FNB116	Financial Management for Engineers	6	3
HRB111	Industrial Management	6	3
MEB774	Operations Management	7	3
	Any approved subject offered for EE44		
	BEng(Electrical & Computer Engineering)	7	3

## ■ Bachelor of Engineering (Civil) (CE42)\*

**Location:** Gardens Point campus

**Course Duration:** 4 years full-time, 6 years part-time

**Total Credit Points:** 384

**Standard Credit Points/Full-Time Semester:** 48

**Course Coordinator:** Mr Terry Piggott

### Professional Recognition

Membership of the Institution of Engineers, Australia.

### Full-Time Course Structure

		Credit Points	Contact Hrs/Wk
<b>Year 1, Semester 1</b>			
BNB001	Learning at University	2	1
CEB102	Civil Engineering 1	2	1
CEB184	Engineering Mechanics 1+	7	3
CHB002	Introduction to Engineering Chemistry#	2	1
COB137	English for Technologists	6	3
CSB191	Introduction to Computing	4	2
EEB101	Circuits & Measurements	7	3
MAB193	Engineering Mathematics 1**	6	3
MEB121	Engineering Graphics	6	3
MEB171	Introduction to Manufacturing	2	1
PHB132	Engineering Physics 1A	6	3
<b>Year 1, Semester 2</b>			
CEB185	Engineering Mechanics 2+	7	3
CEB192	Industrial Experience 1		5 weeks
CHB346	Engineering Chemistry C	4	2
CSB291	Introduction to FORTRAN	4	2
MAB193	Engineering Mathematics 1**	6	3
MEB111	Dynamics	7	3
MEB133	Materials 1	6	3
PHB232	Engineering Physics 2A	6	3
SVB306	Surveying	8	3

\* See Special Notes.

+ Students who have not successfully completed CEB184 or CEB185 may enrol in the equivalent subjects CEB001 (Engineering Mechanics A) or CEB002 (Engineering Mechanics B) which will be offered during the summer vacation.

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

\*\* Subject extends over two semesters.

**Year 2, Semester 1**

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

**Year 2, Semester 2\***

CEB202	Concrete Structures 1	6	3
CEB220	Civil Systems 1	6	3
CEB240	Soil Mechanics 1	6	3
CEB253	Structural Engineering 1	6	3
CEB292	Industrial Experience 2		5 weeks
CEB312	Highway Engineering	6	3
CEB360	Hydraulic Engineering 1	6	3
CEB393	Engineering Investigation & Reporting 1	3	2
CEB404	Field Trip	3	1.5
MAB493	Engineering Mathematics 2+	6	3

**Year 3, Semester 1**

CEB241	Soil Mechanics 2	7	3
CEB304	Civil Engineering Design 1+	8	4
CEB306	Concrete Structures 2	7	3
CEB307	Construction Practice	6	3
CEB354	Structural Engineering 2	7	3
CEB460	Hydraulic Engineering 2	7	3
MAB893	Engineering Mathematics 3	6	3

**Year 3, Semester 2**

CEB304	Civil Engineering Design 1+	8	4
CEB305	Construction Planning & Economics	6	3
CEB313	Traffic Engineering	6	3
CEB355	Structural Engineering 3	6	3
CEB361	Hydrology	6	3
CEB370	Public Health Engineering 1	6	3
CEB392	Industrial Experience 3		5 weeks
HRB121	Management	4	2

**Year 4, Semester 1**

CEB401	Design Project	5	3
CEB405	Civil Engineering Design 2+	6	3
CEB422	Civil Systems 2	5	2
CEB430	Building Construction	3	2
CEB470	Public Health Engineering 2	5	3
CEB491	Project (Civil)+	9	3
CEB492	Engineering Investigation & Reporting 2	3	1
	Two Elective Subjects	12	6

**Year 4, Semester 2**

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

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

+ Subject extends over two semesters.



## Electives

### FIRST SEMESTER

CEB501	Civil Engineering Practice 1	6	3
CEB505	Project Management & Administration	6	3
CEB512	Transport Engineering 1	6	3
CEB541	Geotechnical Engineering 2	6	3
CEB551	Advanced Structural Design	6	3
CEB561	Coastal Engineering	6	3

### SECOND SEMESTER

CEB503	Advanced Construction Methods	6	3
CEB506	Civil Engineering Practice 2	6	3
CEB511	Transport Engineering 2	6	3
CEB520	Finite Element Methods	6	3
CEB531	Masonry Design	6	3
CEB542	Geotechnical Engineering 3	6	3
CEB560	Hydraulic Engineering 3	6	3
CEB570	Public Health Engineering 3	6	3

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

### Part-Time Course Structure

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

#### Year 1, Semester 1

BNB001	Learning at University	2	1
CEB102	Civil Engineering 1	2	1
CEB184	Engineering Mechanics 1*	7	3
CHB002	Introduction to Engineering Chemistry+	(2)	(1)
MAB193	Engineering Mathematics 1#	6	3
MEB121	Engineering Graphics	6	3
MEB171	Introduction to Manufacturing	2	1
PHB132	Engineering Physics 1A	6	3

#### Year 1, Semester 2

CEB185	Engineering Mechanics 2*	7	3
CEB192	Industrial Experience 1		5 weeks
MAB193	Engineering Mathematics 1#	6	3
MEB111	Dynamics	7	3
MEB133	Materials 1	6	3
PHB232	Engineering Physics 2A	6	3

#### Year 2, Semester 1

CEB231	Concrete Technology	7	3
CEB291	Civil Engineering Materials	7	3
COB137	English for Technologists	6	3
CSB191	Introduction to Computing	4	2
MAB493	Engineering Mathematics 2#	6	3

#### Year 2, Semester 2

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

\* Students who have not successfully completed CEB184 or CEB185 may enrol in the equivalent subjects CEB001 (Engineering Mechanics A) or CEB002 (Engineering Mechanics B) which will be offered during the summer vacation.

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

# Subject extends over two semesters

**Year 3, Semester 1**

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

**Year 3, Semester 2**

CEB202	Concrete Structures 1	6	3
CEB240	Soil Mechanics 1	6	3
CEB292	Industrial Experience 2		5 weeks
CEB305	Construction Planning & Economics	6	3
CEB360	Hydraulic Engineering 1	6	3
CHB346	Engineering Chemistry C	4	2

**Year 4, Semester 1**

CEB220	Civil Systems 1	6	3
CEB241	Soil Mechanics 2	7	3
CEB354	Structural Engineering 2	7	3
CEB460	Hydraulic Engineering 2	7	3
EEB101	Circuits & Measurements	7	3

**Year 4, Semester 2**

CEB312	Highway Engineering	6	3
CEB341	Geotechnical Engineering 1	6	3
CEB355	Structural Engineering 3	6	3
CEB361	Hydrology	6	3
CEB370	Public Health Engineering 1	6	3

**Year 5, Semester 1**

CEB304	Civil Engineering Design 1*	8	4
CEB306	Concrete Structures 2	7	3
CEB313	Traffic Engineering	6	3
CEB393	Engineering Investigation & Reporting 1	3	2
CEB470	Public Health Engineering 2	6	3
CEB492	Engineering Investigation & Reporting 2	3	1

**Year 5, Semester 2**

CEB304	Civil Engineering Design 1*	8	4
CEB392	Industrial Experience 3		5 weeks
CEB401	Design Project	5	3
CEB430	Building Construction	3	2
CEB492	Engineering Investigation & Reporting 2	3	1
HRB121	Management	4	2
CEB422	Civil Systems 2	5	2
	One Elective Subject	6	3

**Year 6, Semester 1**

CEB405	Civil Engineering Design 2*	6	3
CEB406	Structural Applications	8	3
CEB491	Project (Civil)+	9	3
	Two Elective Subjects	12	6

\* Students who have not successfully completed CEB184 or CEB185 may enrol in the equivalent subjects CEB001 (Engineering Mechanics A) or CEB002 (Engineering Mechanics B) which will be offered during the summer vacation.

+ Extends over two semesters.

## Year 6, Semester 2

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

## Electives

Refer to full-time structure.

## ■ Bachelor of Engineering (Electrical and Computer Engineering) (EE44)+

**Location:** Gardens Point campus

**Course Duration:** 4 years full-time, 6 years part-time

**Total Credit Points:** 384

**Standard Credit Points/Full-Time Semester:** 48

**Course Coordinator:** Mr David Birtwhistle

## Professional Recognition

Membership of the Institution of Engineers, Australia and of the Institution of Radio and Electronics Engineers.

## Full-Time Course Structure

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

### Year 1, Semester 1

BNB001	Learning at University	2	1
CEB102	Civil Engineering 1	2	1
CEB184	Engineering Mechanics 1	7	3
CHB002	Introduction to Engineering Chemistry#	(2)	(1)
COB137	English for Technologists	6	3
CSB191	Introduction to Computing	4	2
EEB101	Circuits & Measurements	7	3
MAB193	Engineering Mathematics 1**	6	3
MEB121	Engineering Graphics	6	3
MEB171	Introduction to Manufacturing	2	1
PHB132	Engineering Physics 1A	6	3

### Year 1, Semester 2

CSB291	Introduction to FORTRAN	4	2
EEB202	Electromagnetics	6	3
EEB203	Circuit Analysis	5	3
EEB206	Industrial Experience 1		5 weeks
EEB272	Digital Principles	3	1.5
EEB371	Electronic Devices	5	3
MAB193	Engineering Mathematics 1**	6	3
MEB111	Dynamics	7	3

\* Students who have not successfully completed CEB184 or CEB185 may enrol in the equivalent subjects CEB001 (Engineering Mechanics A) or CEB002 (Engineering Mechanics B) which will be offered during the summer vacation.

+ See Special Notes.

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

\*\* Subject extends over two semesters.

MEB133	Materials 1	6	1.5
PHB232	Engineering Physics 2	6	3

### Year 2, Semester 1

COB142	Communication for Engineers	2	1
CSB490	Software Engineering	6	3
EEB302	Electrotechnology	6	3
EEB303	Network Theory 1	7	3
EEB361	Signals & Systems	7	3
EEB372	Sequential Logic	7	3
EEB471	Electronics	7	3
MAB493	Engineering Mathematics 2*	6	3

### Year 2, Semester 2

EEB400	Electrical Power Systems	6	3
EEB401	Network Theory 2	6	3
EEB406	Industrial Experience 2		5 weeks
EEB430	Engineering Fields	6	3
EEB473	Integrated Circuits	6	3
EEB474	Microprocessors	6	3
EEB520	Control Engineering	6	3
EEB561	Analogue Communications	6	3
MAB493	Engineering Mathematics 2*	6	3

### Year 3, Semester 1

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

### Year 3, Semester 2

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

### 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
EEB789	Project*	15	6
EEB821	Production Technology & Quality	6	3
EEB887	Design 3	6	3
	One Technical Elective	7	3

\* Subject extends over two semesters.

## Year 4, Semester 2

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

## General Electives

BNB103	General Elective	4	2
EEB600	Starting a Technology Based Business	4	2
FNB125	Personal & Corporate Finance	4	2
HRB121	Management	4	2
ISB393	Computer Based Information Systems	4	2
SSB907	Psychology for Engineers	4	2

## Technical Electives

EEB761	Statistical Communications	7	3
EEB841	Mining Electrotechnology	7	3
EEB922	Computer Controlled Systems	7	3
EEB955	Power Electronics Applications	7	3
EEB951	High Voltage Equipment	7	3
EEB961	Communications Techniques	7	3
EEB962	Microwave Systems Engineering	7	3
EEB969	Digital Spectral Analysis	7	3
EEB972	Integrated Electronic Techniques	7	3
MAB895	Introduction to Cryptology	7	4
MAB896	Error Control & Data Compression Techniques+	7	4
MAB920	Coding & Encryption Techniques	12	3
MAB982	Advanced Topics in Cryptology	12	4
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

BNB001	Learning at University#	2	1
CHB002	Introduction to Engineering Chemistry**	2	1
CSB191	Introduction to Computing	4	2
EEB101	Circuits & Measurements	7	3
MAB193	Engineering Mathematics 1*		
MEB121	Engineering Graphics	6	3
PHB132	Engineering Physics 1A	6	3

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

### Year 1, Semester 2

CSB291	Introduction to FORTRAN	4	2
EEB203	Circuit Analysis	5	3
EEB206	Industrial Experience 1		5 weeks
EEB371	Electronic Devices	5	3

\* Subject extends over two semesters.

+ Not offered in 1992.

# Students may be exempt on the basis of relevant industrial experience. Students must apply for exemption.

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

EEB272	Digital Principles	3	1.5
MAB193	Engineering Mathematics 1*	6	3
PHB232	Engineering Physics 2	6	3
<b>Year 2, Semester 1</b>			
COB137	English for Technologists	6	3
EEB303	Network Theory 1	7	3
EEB361	Signals & Systems	7	3
EEB471	Electronics	7	3
MAB493	Engineering Mathematics 2*	6	3
<b>Year 2, Semester 2</b>			
EEB202	Electromagnetics	6	3
EEB401	Network Theory 2	6	3
EEB406	Industrial Experience 2		5 weeks
MAB493	Engineering Mathematics 2*	6	3
MEB111	Dynamics	7	3
MEB133	Materials 1	6	3
<b>Year 3, Semester 1</b>			
CEB102	Civil Engineering 1	2	1.5
CEB184	Engineering Mechanics 1	7	3
COB142	Communication for Engineers	2	1
EEB302	Electrotechnology	6	3
EEB372	Sequential Logic	7	3
MAB893	Engineering Mathematics 3	6	3
<b>Year 3, Semester 2</b>			
EEB400	Electrical Power Systems	6	3
EEB473	Integrated Circuits	6	3
EEB474	Microprocessors	6	3
EEB520	Control Engineering	6	3
EEB606	Industrial Experience 3		5 weeks
MAB894	Engineering Mathematics 4	6	3
<b>Year 4, Semester 1</b>			
CSB490	Software Engineering	6	3
EEB404	Electrical Machines	6	3
EEB573	Industrial Electronics	6	3
EEB591	Systems Programming Languages	6	3
EEB620	Control Systems Analysis	6	3
<b>Year 4, Semester 2</b>			
EEB430	Engineering Fields	6	3
EEB561	Analogue Communications	6	3
EEB601	Realtime Operating Systems	6	3
EEB602	Signal Processing	6	3
EEB971	Applied Electronics	6	3
	OR		
EEB531	Electrical Power Transmission	6	3
<b>Year 5, Semester 1</b>			
EEB553	Electrical Power Equipment	6	3
	OR		
EEB661	Information Theory & Noise	6	3
EEB562	Transmission & Propagation	6	3
EEB587	Design 1	6	3
EEB821	Production Technology & Quality	6	3
EEB742	Power Systems Engineering	7	3

\* Subject extends over two semesters.

	OR		
EEB968	Digital Signal Processing	7	3
MEB171	Introduction to Manufacturing	2	1

### Year 5, Semester 2

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

### Year 6, Semester 1

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

### Year 6, Semester 2

EEB789	Project*	15	6
EEB888	Design 4	10	3
EEB890	Advanced Information Technology Topics	8	3
	OR		
EEB741	Power Systems Analysis	8	3
	One Technical Elective	7	3

### Electives

Refer to full-time course structure.

## ■ Bachelor of Engineering (Mechanical) (ME45)+

**Location:** Gardens Point campus

**Course Duration:** 4 years full-time, 6 years part-time

**Total Credit Points:** 384

**Standard Credit Points/Full-Time Semester:** 48

**Course Coordinator:** Dr D. Hargreaves

### Professional Recognition

Membership of the Institution of Engineers, Australia.

### Full-Time Course Structure

		Credit Points	Contact Hrs/Wk
<b>Year 1, Semester 1</b>			
BNB001	Learning at University	2	1
CEB102	Civil Engineering 1	2	1
CEB184	Engineering Mechanics 1	7	3
CHB002	Introduction to Engineering Chemistry#	2	1
COB137	English for Technologists	6	3
CSB191	Introduction to Computing	4	2

\* Subject extends over two semesters.

+ See Special Note.

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

EEB101	Circuits & Measurement	7	3
MAB193	Engineering Mathematics 1*	6	3
MEB121	Engineering Graphics	6	3
MEB171	Introduction to Manufacturing	2	1
PHB132	Engineering Physics 1A	6	3

### Year 1, Semester 2

CEB185	Engineering Mechanics 2	7	3
CHB344	Engineering Chemistry M	4	2
CSB291	Introduction to FORTRAN	4	2
EEB202	Electromagnetics	6	3
MAB193	Engineering Mathematics 1*	6	3
MEB101	Design 1	8	3
MEB111	Dynamics	7	3
MEB133	Materials 1	6	3
MEB200	Industrial Experience 1		5 weeks

### Year 2, Semester 1

EEB209	Electrical Engineering 2M	6	3
MAB493	Engineering Mathematics 2*	6	3
MEB230	Materials 2	6	3
MEB250	Thermodynamics 1	6	3
MEB313	Mechanics 1	6	3
MEB361	Fluids 1	6	3
MEB370	Manufacturing Systems 1	6	3
MEB381	Design 2	6	3

### Year 2, Semester 2

MAB493	Engineering Mathematics 2*	6	3
MEB231	Materials 3	6	3
MEB251	Thermodynamics 2	6	3
MEB300	Industrial Experience 2		5 weeks
MEB411	Theory of Machines	7	3
MEB462	Fluids 2	6	3
MEB472	Manufacturing Systems 2	6	3
MEB483	Design 3	7	3
	One Group A Elective Subject	4	2

### Year 3, Semester 1

COB143	Technical Writing	2	1
MAB893	Engineering Mathematics 3	6	3
MEB339	Materials & Manufacturing Project	6	3
MEB510	Noise & Vibrations	7	3
MEB511	Stress Analysis	7	3
MEB550	Heat Transfer	6	3
MEB773	Design for Manufacturing 1	7	3
	One Group B Elective Subject	7	3

### Year 3, Semester 2

EEB273	Microcomputers in Engineering	4	2
MEB402	Industrial Experience 3		5 weeks
MEB463	Tribology	6	3
MEB610	Mechanics 2	6	3
MEB640	Automation 1	7	3
MEB650	Thermodynamics 3	6	3
MEB660	Fluid Power	6	3
MEB670	Industrial Engineering 1	6	3
	One Group C Elective Subject	7	3

### Year 4, Semester 1

MEB464	Fluids 3	7	3
MEB489	Mechanical Design Project*	7	3

\* Subject extends over two semesters.



MEB710	Automation 2	7	3
MEB771	Industrial Engineering 2	6	3
MEB772	Engineering Project Appraisal	7	3
MEB911	Finite Element Analysis	7	3
	One Group D Elective Subject	7	3

#### Year 4, Semester 2

FNB116	Financial Management for Engineers	6	3
HRB111	Industrial Management	6	3
MEB408	Project A (Mechanical)	16	6
MEB489	Mechanical Design Project*	7	3
MEB981	Design of Materials Handling Systems	6	3
	One Group E Elective Subject	7	3

#### Electives

##### GROUP A

BNB103	General Elective	4	2
EEB600	Starting a Technology Based Business	4	2
ISB393	Computer Based Information Systems	4	2
SSB907	Psychology for Engineers	4	2

##### GROUP B

MEB450	Air Conditioning	7	3
MEB500	Special Topic 1 (Reliability & Maintenance Optimisation)	7	3
MEB531	Advanced Materials	7	3

##### GROUP C

MEB601	Special Topic 2 (Maintenance Management & Technology)	7	3
MEB680	Advanced Mechanical Design	7	3
MEB950	Process Plant Design	7	3
MEB976	Computer Integrated Manufacturing	7	3

##### GROUP D

MEB701	Special Topic 3 (Reliability & Maintenance Optimisation)	7	3
MEB977	Computer Control of Manufacturing Systems	7	3
MEB980	Design of Power Transmission Systems	7	3

##### GROUP E

MEB800	Special Topic 4 (Maintenance Management & Technology)	7	3
MEB810	Industrial Noise & Vibration	7	3
MEB960	Fluid Systems Design	7	3
MEB975	Design of Manufacturing Systems	7	3

#### Part-Time Course Structure

**Credit  
Points**

**Contact  
Hrs/Wk**

#### Year 1, Semester 1

BNB001	Learning at University	2	1
CEB184	Engineering Mechanics 1	7	3
CHB002	Introduction to Engineering Chemistry+	(2)	(1)
COB137	English for Technologists	6	3
MAB193	Engineering Mathematics 1*	6	3
MEB121	Engineering Graphics	6	3
PHB132	Engineering Physics 1A	6	3

#### Year 1, Semester 2

CEB185	Engineering Mechanics 2	7	3
CHB344	Engineering Chemistry M	4	2
MAB193	Engineering Mathematics 1*	6	3
MEB111	Dynamics	7	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 Year 12 Chemistry.

MEB133	Materials 1	6	3
MEB200	Industrial Experience 1		5 weeks

### Year 2, Semester 1

CEB102	Civil Engineering 1	2	1
CSB191	Introduction to Computing	4	2
EEB101	Circuits & Measurements	7	3
MAB493	Engineering Mathematics 2*	6	3
MEB171	Introduction to Manufacturing	2	1
MEB230	Materials 2	6	3

### Year 2, Semester 2

CSB291	Introduction to FORTRAN	4	2
EEB202	Electromagnetics	6	3
EEB273	Microcomputers in Engineering	4	2
MAB493	Engineering Mathematics 2*	6	3
MEB101	Design 1	8	3
	One Group A Elective Subject	4	2

### Year 3, Semester 1

MAB893	Engineering Mathematics 3	6	3
MEB250	Thermodynamics 1	6	3
MEB313	Mechanics 1	6	3
MEB361	Fluids 1	6	3
MEB773	Design for Manufacturing 1	7	3

### Year 3, Semester 2

MEB231	Materials 3	6	3
MEB251	Thermodynamics 2	6	3
MEB300	Industrial Experience 2		5 weeks
MEB411	Theory of Machines	7	3
MEB462	Fluids 2	6	3
MEB463	Tribology	6	3

### Year 4, Semester 1

EEB209	Electrical Engineering 2M	6	3
MEB370	Manufacturing Systems 1	6	3
MEB381	Design 2	6	3
MEB511	Stress Analysis	7	3
MEB550	Heat Transfer	6	3

### Year 4, Semester 2

MEB472	Manufacturing Systems 2	6	3
MEB483	Design 3	7	3
MEB610	Mechanics 2	6	3
MEB640	Automation 1	7	3
MEB670	Industrial Engineering 1	6	3

### Year 5, Semester 1

COB143	Technical Writing	2	1
MEB464	Fluids 3	7	3
MEB510	Noise & Vibrations	7	3
MEB772	Engineering Project Appraisal	7	3
MEB911	Finite Element Analysis	7	3
	One Group B Elective Subject	7	3

### Year 5, Semester 2

MEB339	Materials & Manufacturing Project	6	3
MEB402	Industrial Experience 3		5 weeks
MEB650	Thermodynamics 3	6	3
MEB660	Fluid Power	6	3

\* Subject extends over two semesters.

MEB981	Design of Materials Handling Systems	6	3
	One Group C Elective Subject	7	3

### Year 6, Semester 1

MEB409	Project B (Mechanical)*	8	3
MEB489	Mechanical Design Project*	7	3
MEB710	Automation 2	7	3
MEB771	Industrial Engineering 2	6	3
	One Group D Elective Subject	7	3

### Year 6, Semester 2

FNB116	Financial Management for Engineers	6	3
HRB111	Industrial Management	6	3
MEB409	Project B (Mechanical)*	8	3
MEB489	Mechanical Design Project*	7	3
	One Group E Elective Subject	7	3

### Electives

Refer to full-time course structure.

## ■ Associate Diploma in Cartography (SV24)

**Course Discontinued:** No further intakes

**Location:** Gardens Point campus

**Course Duration:** 4 years part-time

**Total Credit Points:** 192

**Standard Credit Points/Full-Time Semester:** 48

**Course Coordinator:** Mr Basil Pathe

### Professional Recognition

Associate Membership of the Australian Institute of Cartographers.

Course Structure		Credit Points	Contact Hrs/Wk
<b>Year 2, Semester 1</b>			
SVT115	Cartographic Computations 1	8	3
SVT471	Land Laws & Regulations	8	3
SVT715	Cartography 1*	8	3
<b>Year 2, Semester 2</b>			
SVT225	Surveying	8	3
SVT243	Photogrammetry 1	8	3
SVT815	Cartography 2*	8	3
<b>Year 3, Semester 1</b>			
SVT511	CAD Systems	8	3
SVT513	Digital Mapping	8	3
SVT715	Cartography 1	8	3
<b>Year 3, Semester 2</b>			
COX107	Seminar	4	1.5
SVT623	Project Mapping	4	1.5

\* Subject extends over two semesters.

SVT642	Map Projections 1	8	3
SVT815	Cartography 2	8	3

#### **Year 4, Semester 1**

SVT742	Map Projections 2	8	3
SVT915	Cartography 3	8	3
SVT992	Computer Graphics 2	8	3

#### **Year 4, Semester 2**

SVT826	Cartographic Administration	8	3
SVT916	Cartography 4	8	3
SVT945	Remote Sensing	8	3

## **■ Associate Diploma in Civil Engineering (CE21)**

**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 is offered in the part-time mode, subject to quotas.

**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 of the Australian Institute of Engineering Associates and of the Institute for Drafting and Design, Australia.

<b>Full-Time Course Structure</b>		<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
<b>GENERAL MAJOR</b>			
<b>Year 1, Semester 1</b>			
CET120	Civil Systems	7	3
CET135	Engineering Mechanics	7	3
CET180	Civil Drafting Practice A	3	3
CET195	Civil Engineering 1	7	3
CET815	Road Location & Design	7	3
CET894	Computations A	3	3
MET120	Engineering Drawing 1	7	3
SVT306	Engineering Surveying	7	3
<b>Year 1, Semester 2</b>			
CET190	Civil Engineering Materials	7	3
CET235	Laboratory Practice A	3	3
CET255	Structural Mechanics	7	3
CET286	Civil Office Practice	7	3
CET287	Civil Office Practice A	3	3
CET365	Hydraulic Engineering	7	3
CET435	Concrete Practice	7	3
CET645	Soil Mechanics	7	3

### Year 2, Semester 1

CET306	Field Practice 1A	3	3
CET387	Civil Engineering Drafting A	3	3
CET565	Road & Drainage Engineering	7	3
CET585	Civil Engineering Drafting	7	3
CET756	Building Construction Practice	7	3
CET775	Public Health Engineering	7	3
	One Subject from List B	7	3
	One Elective Subject	7	3

### Year 2, Semester 2

CET405	Field Practice 2A	3	3
CET495	Project A	3	3
CET704	Civil Construction Practice	7	3
CET708	Specifications & Estimates	7	3
	Two Subjects from List B	14	6
	Two Elective Subjects	14	6

Generally a full-time student will gain 24 credit points by successfully completing six practical experience subjects designated by the suffix A after the subject name, and a part-time student will gain 24 credit points for successfully completing 120 weeks industrial employment. However, a combination of practical experience subjects and industrial employment totalling 24 credit points will be accepted. Forms for obtaining credit for industrial employment are available from the Faculty office. Details of acceptable industrial employment can be obtained from the Course Coordinator.

### Part-Time Course Structure

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

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

		Credit Points	Contact Hrs/Wk
<b>Year 1, Semester 1</b>			
BNT100	Industrial Employment 1	3	15 weeks
CET135	Engineering Mechanics	7	3
CET195	Civil Engineering	7	3
MET120	Engineering Drawing 1	7	3
<b>Year 1, Semester 2</b>			
BNT200	Industrial Employment 2	3	15 weeks
CET190	Civil Engineering Materials	7	3
CET255	Structural Mechanics	7	3
CET286	Civil Office Practice	7	3
<b>Year 2, Semester 1</b>			
BNT300	Industrial Employment 3	3	15 weeks
CET120	Civil Systems 1	7	3
CET815	Road Location & Design	7	3
SVT306	Engineering Surveying	7	3

**Year 2, Semester 2**

BNT400	Industrial Employment 4	3	15 weeks
CET365	Hydraulic Engineering	7	3
CET435	Concrete Practice	7	3
CET645	Soil Mechanics	7	3

**Year 3, Semester 1**

BNT500	Industrial Employment 5	3	15 weeks
CET565	Road & Drainage Engineering	7	3
CET585	Civil Engineering Drafting	7	3
CET775	Public Health Engineering	7	3

**Year 3, Semester 2**

BNT600	Industrial Employment 6	3	15 weeks
CET708	Specifications & Estimates	7	3
CET756	Building Construction Practice	7	3
	One Subject from List B	7	3

**Year 4, Semester 1**

BNT700	Industrial Employment 7	3	15 weeks
CET704	Civil Construction Practice	7	3
	One Elective Subject	7	3
	One Subject from List B	7	3

**Year 4, Semester 2**

BNT800	Industrial Employment 8	3	15 weeks
	One Subject from List B	7	3
	Two Elective Subjects	14	6

**List B Subjects****FIRST SEMESTER**

CET606	Construction Management (Evening)	7	3
CET655	Concrete & Steel Design (Day)	7	3
CET787	Structural Engineering Drawing (Evening)	7	3
EST219	Engineering Geology	7	3

**SECOND SEMESTER**

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

**Elective Subjects for General Major – Full-Time and Part-Time Study****FIRST SEMESTER**

CET703	Civil Engineering Practice 1	7	3
CET707	Municipal Engineering (Evening)	7	3
CET735	Advanced Laboratory Testing 1	7	3
CET797	Project 1	7	3
CHA145	Introductory Chemistry (Evening)	8	3
EST219	Engineering Geology	7	3
MET140	Engineering Materials 1	8	3

**SECOND SEMESTER**

CET420	Civil Systems 2	7	3
CET797	Project 1	7	3
CET802	Civil Engineering Practice 2	7	3
CET838	Advanced Laboratory Testing 2	7	3
CET856	Advanced Construction Techniques	7	3
CET888	Structural Drawing & Design (Day)	7	3

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

electives. The number of elective subjects available is dependent upon a sufficient number of students being enrolled.

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

### **WATER AND WASTEWATER PROCESS OPERATION MAJOR (Semesters 1 to 4 are common to the General Major.)**

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

#### **Year 3, Semester 1**

CET565	Road & Drainage Engineering	7	3
CET585	Civil Engineering Drafting	7	3
CET775	Public Health Engineering	7	3
BNT500	Industrial Employment 5	3	15 weeks
	OR		
CET598	Project 2	21	9

#### **Year 3, Semester 2**

BNT600	Industrial Employment 6	3	15 weeks
CET776	Equipment Operation & Maintenance	7	3
CHA145	Introductory Chemistry	8	3
CHA644	Process Measurement & Monitoring 1	7	3

#### **Year 4, Semester 1**

BNT700	Industrial Employment 7	3	15 weeks
CET606	Construction Management	7	3
CET777	Process Operation & Control 1	7	3
CHA744	Process Measurement & Monitoring 2	7	3

#### **Year 4, Semester 2**

BNT800	Industrial Employment 8	3	15 weeks
CET876	Plant Operation & Maintenance	7	3
CET877	Process Operation & Control 2	7	3
CHA844	Trade Waste Control	7	3

## **■ Associate Diploma in Electrical Engineering (EE22)**

**Location:** Gardens Point campus

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

**Total Credit Points:** 192

**Standard Credit Points/Full-Time Semester:** 48

**Course Coordinator:** Mr John Edwards

### **Professional Recognition**

Membership of the Australian Institute of Engineering Associates and of the Institute for Drafting and Design, Australia.

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

			<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
<b>COMPUTER SYSTEMS MODULE</b>				
EET590	Microprocessor Systems	(a)	7	3
EET690	Computer Organisation	(b)	7	3
EET791	Computer Programming 2	(c)	7	3
EET891	Advanced Computing Techniques	(d)	7	3
<b>INDUSTRIAL SYSTEMS MODULE</b>				
EET522	Control Systems 2	(a)	7	3
EET678	Applied Electronics	(b)	7	3
EET720	Modern Control Technology	(c)	7	3
EET870	Industrial Electronics	(d)	7	3
<b>POWER MODULE</b>				
EET642	Electrical Power Systems 1	(a)	7	3
EET650	Electrical Equipment	(b)	7	3
EET753	Testing & Commissioning Techniques	(c)	7	3
EET840	Substations & Protection Systems	(d)	7	3
<b>TELECOMMUNICATIONS MODULE</b>				
EET560	Communications Engineering 1	(a)	7	3
EET737	Transmission & Propagation	(b)	7	3
EET760	Communications Engineering 2	(c)	7	3
EET860	Communications Technology	(d)	7	3

### **Full-Time/Part-Time Course Structure**

			<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
<b>Year 1, Semester 1</b>				
CST390	Computer Programming 1		7	3
EET100	Electrical Engineering Computations		7	3
EET111	Electrical Engineering 1		7	3
EET211	Electrical Engineering 2		7	3
MET101	Engineering Drawing		7	3
MET123	Electrical Engineering Drawing 1A		3	3
MET175	Workshop (Mech) 1A		3	3
MET475	Workshop (Mech) 3A		3	3
<b>Year 1, Semester 2</b>				
EET270	Electronics 1		7	3
EET350	Electrical Engineering 3		7	3
EET420	Control Systems 1		7	3
EET460	Telecommunications		7	3
EET490	Computer Packages		7	3
EET676	Digital Electronics		7	3
MET201	Applied Mechanics		7	3
MET223	Electrical Engineering Drawing 2A		3	3
<b>Year 2, Semester 1</b>				
BNT500	Industrial Employment 5		3	15 weeks
EET570	Electronics 2		7	3
	Major 1	(a)	7	3
	Major 2	(a)	7	3
<b>Year 2, Semester 2</b>				
BNT600	Industrial Employment 6		3	15 weeks
MET600	Materials for Electrical Engineers		4	1.5
MET601	Mechanical Plant		3	1.5
	Major 1	(b)	7	3
	Major 2	(b)	7	3



### Year 3, Semester 1

BNT700	Industrial Employment 7	3	15 weeks
	ONE Elective Subject	7	3
	Major 1	(c) 7	3
	Major 2	(c) 7	3

### Year 3, Semester 2

BNT800	Industrial Employment 8	3	15 weeks
EET880	Design	7	3
	Major 1	(d) 7	3
	Major 2	(d) 7	3

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

Normally, part-time students shall have engaged in at least 120 weeks of approved employment, ie. 15 weeks for each of the eight Industrial Employment 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. However, a combination of practical experience subjects and industrial experience totalling 24 credit points will be accepted.

		Credit Points	Contact Hrs/Wk
<b>Year 1, Semester 1</b>			
BNT100	Industrial Employment 1	3	15 weeks
EET100	Electrical Engineering Computations	7	3
EET111	Electrical Engineering 1	7	3
MET101	Engineering Drawing	7	3
<b>Year 1, Semester 2</b>			
BNT200	Industrial Employment 2	3	15 weeks
EET211	Electrical Engineering 2	7	3
EET270	Electronics 1	7	3
MET201	Applied Mechanics	7	3
<b>Year 2, Semester 1</b>			
BNT300	Industrial Employment 3	3	15 weeks
CST390	Computer Programming 1	7	3
EET350	Electrical Engineering 3	7	3
EET676	Digital Electronics	7	3
<b>Year 2, Semester 2</b>			
BNT400	Industrial Employment 4	3	15 weeks
EET420	Control Systems 1	7	3
EET460	Telecommunications	7	3
EET490	Computer Packages	7	3

### Year 3, Semester 1

BNT500	Industrial Employment 5	3	15 weeks
EET570	Electronics 2	7	3
BNT600	Industrial Employment 6	3	15 weeks
	Major 1	(a) 7	3
	Major 2	(a) 7	3

### Year 3, Semester 2

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

### Year 4, Semester 1

BNT700	Industrial Employment 7	3	15 weeks
	One Elective Subject	7	3
	Major 1	(c) 7	3
	Major 2	(c) 7	3

### Year 4, Semester 2

BNT800	Industrial Employment 8	3	15 weeks
EET880	Design	7	3
	Major 1	(d) 7	3
	Major 2	(d) 7	3

#### Note:

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

## ■ Associate Diploma in Mechanical Engineering (ME23)

**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 of the Australian Institute of Engineering Associates and of the Institute for Drafting and Design, Australia (Queensland Division).

### Full-Time Course Structure

Credit  
Points

Contact  
Hrs/Wk

#### Year 1, Semester 1

MET120	Engineering Drawing 1	7	3
MET121	Drafting Practice 1A	3	3
MET140	Engineering Materials 1	8	3
MET171	Trade Training 1A	6	7
MET210	Applied Mechanics 1	8	3
MET560	Thermofluids	8	3
MET940	Mechanical Measurements	8	3

#### Year 1, Semester 2

CSA165	Computing	7	3
MET170	Manufacturing Technology	8	3
MET220	Engineering Drawing 2	8	3
MET221	Drafting Practice 2A	3	3
MET271	Trade Training 2A	6	7
MET310	Applied Mechanics 2	8	3
MET433	Engineering Materials 2	8	3

#### Year 2, Semester 1

EET500	Electrical Technology	6	3
MET250	Thermodynamics	6	3
MET320	Engineering Drawing 3	6	3
MET572	Production Planning & Control	6	3
MET580	Machine Elements 1	6	3
MET920	Computer Aided Design & Drafting	6	3
MET933	Industrial Tribology	6	3
	One Elective Subject	6	3

#### Year 2, Semester 2

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

### Electives

#### FIRST SEMESTER

EEB101	Circuits & Measurements*	7	3
MAB193	Engineering Mathematics 1*	6	3
MET511	Noise, Stress & Vibration Practice	6	3
MET733	Industrial Metallurgy	6	3
MET782	Jig & Tool Design	6	3
MET850	Energy Management	6	3
PHB132	Engineering Physics 1A*	6	3

#### SECOND SEMESTER

MAA251	Statistics & Data Processing	8	3
MAB193	Engineering Mathematics 1*	6	3
MEB111	Dynamics*	7	3
MET352	Air Conditioning & Refrigeration	7	3
MET680	Machine Elements 2	7	3
MET960	Fluid Power	7	3

BUILT  
ENVIRONMENT  
& ENGINEERING

**Note:**

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. Generally, a full-time student will gain 24 credit points by successfully completing six practical experience subjects designated by the suffix A after the subject name and a part-time student will gain 24 credit points for successfully completing 120 weeks of industrial employment. However, a combination of practical experience subjects and industrial employment totalling 24 credit points will be accepted.

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

		<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
<b>Year 1, Semester 1</b>			
BNT100	Industrial Employment 1	3	15 weeks
MET120	Engineering Drawing 1	7	3
MET140	Engineering Materials 1	8	3
MET210	Applied Mechanics 1	8	3
<b>Year 1, Semester 2</b>			
BNT200	Industrial Employment 2	3	15 weeks
MET220	Engineering Drawing 2	8	3
MET310	Applied Mechanics 2	8	3
MET433	Engineering Materials 2	8	3
<b>Year 2, Semester 1</b>			
BNT300	Industrial Employment 3	3	15 weeks
MET320	Engineering Drawing 3	6	3
MET560	Thermofluids	8	3
MET940	Mechanical Measurements	8	3
<b>Year 2, Semester 2</b>			
BNT400	Industrial Employment 4	3	15 weeks
CSA165	Computing	7	3
MET170	Manufacturing Technology	8	3
MET420	Engineering Drawing 4	7	3
<b>Year 3, Semester 1</b>			
BNT500	Industrial Employment 5	3	15 weeks
EET500	Electrical Technology	6	3

MET250	Thermodynamics	6	3
MET580	Machine Elements 1	6	3

### **Year 3, Semester 2**

BNT600	Industrial Employment 6	3	15 weeks
MET573	CAD/CAM Technology	7	3
MET920	Computer Aided Design & Drafting	6	3
MET961	Fluid Mechanics	7	3

### **Year 4, Semester 1**

BNT700	Industrial Employment 7	3	15 weeks
MET572	Production Planning & Control	6	3
MET933	Industrial Tribology	6	3
	One Elective Subject	6	3

### **Year 4, Semester 2**

BNT800	Industrial Employment 7	3	15 weeks
MET350	Process Engineering	7	3
MET971	Industrial Practice	7	3
	One Elective Subject	7	3

### **Electives**

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



# FACULTY OF BUSINESS

BUSINESS

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# FACULTY OF BUSINESS

## Course Structures

### ■ Master of Business (Accountancy), Master of Business (Communication), Master of Business (Management) (BS80)

**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:

- (i) (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
- (ii) (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 (i) (a) above\*; and
- (iii) 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 12 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.

## □ Master of Business (Accountancy)

**Course Coordinator:** Mr John Polichronis

### Course Requirements

Students are required to complete satisfactorily 14 subjects and a dissertation. The dissertation BSN100 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 List 1, 2 and 3 respectively). The 14 subjects must include:

- (i) AYN102 Accounting Research;
- (ii) a minimum of six Group A subjects from Lists 1, 2 and 3; (Refer to Schedule of Postgraduate Subjects below)
- (iii) within the 14 subjects, a major sequence of five subjects from one of Lists 1, 2 or 3;
- (iv) 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 University or elsewhere, subject to the approval of the Course Coordinator.

Students must complete AYN102 Accounting Research as a prerequisite to enrolment in BSN100 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 Faculty of Business Postgraduate Student Office. Students are advised to seek a topic and to approach a supervisor early in their program. Each student is required to present a seminar on the proposed dissertation topic in the semester prior to enrolment in BSN100. Details are available from the Course Coordinator.

### 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). A Professional Year Higher Degree Program may be incorporated within this major. Students follow a structured course of study involving six specified subjects as outlined in the Graduate Diploma of Advanced Accounting program.

Students should consult the Faculty of Business Postgraduate Student Office for details on subjects being offered in the current year. All programs of study must be approved by the Course Coordinator.

### SCHEDULE OF POSTGRADUATE SUBJECTS

AYN102      Accounting Research  
BSN100      Dissertation

#### List 1

##### ACCOUNTING

##### Group A

AYN106    Auditing Honours  
AYN111    External Reporting Issues  
AYN115    Financial Accounting Honours  
AYN119    International Accounting  
AYN302    Special Topic - Public Accounting

##### Group B

AYN300    Accounting 1 (PY)  
AYN103    Advanced Company Accounting  
AYN104    Audit Sampling  
AYN301    Auditing (PY)  
AYN107    Auditing Standards & Practice  
AYN109    Computer Auditing  
AYN117    Financial Reporting  
AYN118    Internal Auditing

## List 2

### MANAGERIAL ACCOUNTING/FINANCE

#### Group A

FNN101	Finance Honours
FNN104	Financial Risk Management
FNN105	International Finance
FNN106	Managerial Accounting Honours
FNN110	Managerial Accounting Issues A

#### Group B

FNN100	Advanced Capital Budgeting
FNN103	Financial Modelling
FNN111	Managerial Accounting Issues B
FNN112	Special Topic – Managerial Accounting/Finance
FNN300	Accounting 2 (PY)
FNN301	Management Accounting (PY)

## List 3

### ACCOUNTING LEGAL STUDIES

#### Group A

ALN104	Commercial Law Honours
ALN106	International Taxation
ALN107	Liquidations & Receiverships
ALN110	Taxation Policy Honours

#### Group B

ALN101	Tax Planning
ALN102	Advanced Taxation
ALN105	Indirect Taxation
ALN109	Special Topic– Commercial Law
ALN300	Insolvency & Reconstruction (PY)
ALN301	Taxation 1 (PY)
ALN302	Taxation 2 (PY)

## List 4

EPN101	Government Business Relations
HRN108	People in Organisations
HRN112	Business Policy
MKN106	Marketing Methods & Practice

A number of postgraduate subjects are equivalent in content to Professional Year (PY) subjects offered in the program. Professional Year subjects can be taken only by students enrolled for the Professional Year with the Institute of Chartered Accountants in Australia. Students not undertaking the PY may enrol in the equivalent postgraduate subjects, but should note that abnormal timetables apply. Credit cannot be gained for both a PY subject and its equivalent subjects.

For further information regarding postgraduate courses students are advised to request a copy of the *1992 Guide to Postgraduate Studies in Accountancy*.

## □ Master of Business (Communication)

**Course Coordinator:** Associate Professor Philip Neilsen

### Course Requirements

The Master of Business (Communication) requires completion of one year of full-time or two years of part-time study. The degree involves four coursework subjects and a thesis of approximately 30,000 words.

There are at present two majors offered - Media Studies or Communication Management. Each major comprises three subjects plus Advanced Communication Seminar, as outlined below.

### Entry Requirements

There are two main ways to gain entry to the Masters program:

- If applicants have an appropriate Honours degree they may go direct into the Masters program (1 year full-time or 2 years part-time).

- (ii) If applicants do not have an appropriate Honours degree, they can first enrol in preliminary subjects which are equivalent to the Honours program (two years full-time or four years part-time).

<b>Full-Time Course Structure</b>	<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
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**MEDIA STUDIES MAJOR**

**Year 1, Semester 1**

BSP101	Advanced Communication Seminar	12	3
MJN100	Communication & Society	12	3
MJN101	Communication & Culture	12	3
MJN103	Australian Communication Contexts	12	3

**Year 1, Semester 2**

BSN116	Thesis	48	
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**Part-Time Course Structure**

**Year 1, Semester 1**

MJN100	Communication & Society	12	3
MJN101	Communication & Culture	12	3

**Year 1, Semester 2**

BSP101	Advanced Communication Seminar	12	3
MJN103	Australian Communication Contexts	12	3

**Year 2, Semester 1**

BSN116	Thesis	24	
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**Year 2, Semester 2**

BSN116	Thesis	24	
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<b>Full-Time Course Structure</b>	<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
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**COMMUNICATION MANAGEMENT MAJOR**

**Year 1, Semester 1**

BSP101	Advanced Communication Seminar	12	3
CON101	Communication Strategies	12	3
CON102	Advanced Organisational Communication	12	3
CON103	Advanced Communication Management	12	3

**Year 1, Semester 2**

BSN116	Thesis	48	
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<b>Part-Time Course Structure</b>	<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
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**Year 1, Semester 1**

CON101	Communication Strategies	12	3
CON102	Advanced Organisational Communication	12	3

**Year 1, Semester 2**

BSP101	Advanced Communication Seminar	12	3
CON103	Advanced Communication Management	12	3

**Year 2, Semester 1**

BSN116	Thesis	24	
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## Year 2, Semester 2

BSN116 Thesis

24

**Note:** In both the Honours and Masters program, for each 12 credit points subjects, students will be required to produce a minimum of 5000 words, or its equivalent, in assignments. Similarly, the Honours dissertation will be 10,000 words minimum length.

## □ Master of Business (Management)

**Course Coordinator:** Mr Barry Smith

**Note:** Course details and subjects may be modified in order to articulate with the Management Honours course to be introduced in 1992.

### Course Requirements

Students must complete 15 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

BSN130	Current Issues in Australian Management A	12	3
BSN131	Current Issues in Australian Management B	12	3
EPN104	Policy Analysis	12	3
	Elective	12	3

#### Year 1, Semester 2

BSN132	Research Design & Data Analysis	12	3
HRN106	Management, Technology & Social Change	12	3
HRN107	Organisational Psychology	12	3
MKN107	Advanced Marketing Management	12	3

#### Year 2, Semester 1

BSN133	Case Study Program	12	4
BSN134	Initial Project in Management	12	3
BSN135	Applied Research & Design	12	3
EPN103	Organisational Economics	12	3

#### Year 2, Semester 2

BSN136	Project & Seminar A	12	3
BSN137	Project & Seminar B	24	
	Elective, or approved special topic	12	3

### Part-Time Course Structure

**Credit  
Points**

**Contact  
Hrs/Wk**

#### Year 1, Semester 1

BSN130	Current Issues in Australian Management A	12	3
BSN131	Current Issues in Australian Management B	12	3

#### Year 1, Semester 2

BSN132	Research Design & Data Analysis	12	3
HRN106	Management, Technology & Social Change	12	3

#### Year 2, Semester 1

EPN104	Policy Analysis	12	3
	Elective	12	3

**Year 2, Semester 2**

HRN107	Organisational Economics	12	3
MKN107	Advanced Marketing Management	12	3

**Year 3, Semester 1**

BSN133	Case Study Program	12	3
EPN103	Organisational Economics	12	3

**Year 3, Semester 2**

BSN134	Initial Project in Management	12	3
	Elective, or approved special topic	12	3

**Year 4, Semester 1**

BSN135	Applied Research & Design	12	3
BSN136	Project & Seminar A	12	3

**Year 4, Semester 2**

BSN137	Project & Seminar B	24	
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**Note:**

- (i) 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, BSN137 Project & Seminars B, is the equivalent of two three-hour-per-week subjects and is undertaken in the final semester of the course.
- (ii) 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.
- (iii) Students may take 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 (Industrial Relations), Master of Business (Marketing Science) (BS82)

**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 analytical 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 (48 credit points) and a thesis (144 credit points) of approximately 60,000 words.

Subject to the approval of the Course Coordinator and the other institutions 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
<b>Coursework subjects</b>			
HRN100	Advanced Industrial Law*	12	3
HRN101	Advanced Theory & Comparativism	12	3
HRN102	Industrial Relations Methodology	12	3
HRN103	Industrial Relations Planning	12	3
<b>Thesis</b>			
HRN110	Thesis	144	

## **□ Master of Business (Marketing Science)**

**Coordinator:** Mr Bill Collyer

### **Professional Recognition**

Membership of the Australian Marketing Institute and Economic Society of Australia.

Course Structure		Credit Points	Contact Hrs/Wk
<b>Coursework subjects</b>			
MKN100	Advanced Quantitative Research Methods	12	3
MKN101	Business Forecasting Techniques	12	3
MKN102	Business Logistics	12	3
MKN103	Advanced Marketing Simulation	12	3
<b>Thesis</b>			
MKN104	Thesis	144	

## **■ Master of Business Administration (BS81)**

**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

\* This subject may be substituted - no decision made at time of print.

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:

- (i) an undergraduate degree qualification from a recognised Australian or overseas institution;
- (ii) at least two years of appropriate full-time work experience; and
- (iii) an appropriate standard 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.

**MBA Director:** Dr Alan Williams

### Coordinators:

Management Major – Mr Greg Southey

Accounting Major – Mr John Sweeting

### MANAGEMENT MAJOR

#### Full-Time Course Structure

		<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
<b>Year 1, Semester 1</b>			
AYN101	Accounting Principles	12	3
EPN102	Managerial Economics	12	3
HRN104	Introduction to Management	12	3
MKN106	Marketing Methods & Practices	12	3
<b>Year 1, Semester 2</b>			
ALN103	Business Law & Ethics	12	3
EPN101	Government-business Relations	12	3
HRN105	Labour-management Relations	12	3
MKN105	Decision Support Systems	12	3
<b>Year 2, Semester 1</b>			
HRN108	People in Organisations	12	3
	Elective	12	3
	Elective	12	3
	Elective	12	3
<b>Year 2, Semester 2</b>			
HRN112	Business Policy	12	3
	Elective	12	3
	Elective	12	3
	Elective	12	3

#### Part-Time Course Structure

		<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
<b>Year 1, Semester 1</b>			
AYN101	Accounting Principles	12	3
HRN104	Introduction to Management	12	3



**Year 1, Semester 2**

EPN101	Government-business Relations	12	3
MKN105	Decision Support Systems	12	3

**Year 2, Semester 1**

EPN102	Managerial Economics	12	3
MKN106	Marketing Methods & Practices	12	3

**Year 2, Semester 2**

ALN103	Business Law & Ethics	12	3
HRN105	Labour-management Relations	12	3

**Year 3, Semester 1**

HRN108	People in Organisations	12	3
	Elective	12	3

**Year 3, Semester 2**

HRN112	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**

AYN112	Financial Accounting 1	12	3
EPN102	Managerial Economics	12	3
HRN104	Introduction to Management	12	3
MKN106	Marketing Methods & Practices	12	3

**Year 1, Semester 2**

ALN103	Business Law & Ethics	12	3
EPN101	Government-business Relations	12	3
MKN105	Decision Support Systems	12	3
	Elective	12	3

**Year 2, Semester 1**

FNN102	Managerial Finance	12	3
HRN108	People in Organisations	12	3
	Elective	12	3
	Elective	12	3

**Year 2, Semester 2**

HRN112	Business Policy	12	3
	Elective	12	3
	Elective	12	3
	Elective	12	3

Part-Time Course Structure		Credit Points	Contact Hrs/Wk
<b>Year 1, Semester 1</b>			
AYN112	Financial Accounting 1	12	3
HRN104	Introduction to Management	12	3
<b>Year 1, Semester 2</b>			
EPN101	Government-business Relations	12	3
MKN105	Decision Support Systems	12	3
<b>Year 2, Semester 1</b>			
EPN102	Managerial Economics	12	3
MKN106	Marketing Methods & Practices	12	3
<b>Year 2, Semester 2</b>			
ALN103	Business Law & Ethics	12	3
	Elective	12	3
<b>Year 3, Semester 1</b>			
FNN102	Managerial Finance	12	3
HRN108	People in Organisations	12	3
<b>Year 3, Semester 2</b>			
HRN112	Business Policy	12	3
	Elective	12	3
<b>Year 4, Semester 1</b>			
	Elective	12	3
	Elective	12	3
<b>Year 4, Semester 2</b>			
	Elective	12	3
	Elective	12	3

### Incompatible Subjects

**Note:** AYN101 Accounting Principles is incompatible with AYN112 Financial Accounting 1.

### Electives

#### MANAGEMENT MAJOR

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 the Postgraduate Student Office, Faculty of Business for a list of electives available in 1992.

MBA candidates will be permitted to undertake electives from a limited number of advanced undergraduate subjects offered within the Faculty of Business. A small number of Master of Business subjects may also be available as MBA electives.

### Electives

#### ACCOUNTING MAJOR

Students who seek professional accounting membership must undertake six specified elective subjects, as listed below.

ALB122	Law of Business Associations
ALB132	Taxation Law
AYN113	Financial Accounting 2
AYN114	Financial Accounting 3

### **Exemptions/Substitutions**

- (i) Holders of postgraduate awards are eligible to apply for MBA exemptions. Such exemptions will not be awarded as a whole; rather, they are granted on a subject by subject basis, on the basis of successful previous study. MBA students who have completed a Graduate Diploma in Business Administration are eligible to apply for up to eight exemptions.
- (ii) 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 on a 1-7 scale) in each case.
- (iii) All exemptions will be dealt with in terms of QUT policy, as set out in the Student Policies and Procedures section in this Handbook.
- (iv) An MBA student who has been accorded exemptions are not be permitted to graduate with a GDBA unless he/she actually completes six GDBA/MBA subjects offered by this University.

### **Relationship between MBA and GDBA**

Following the successful completion of eight MBA subjects (including at least five subjects from the core and strand core areas), 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 Business Administration**

**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 12 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. It is recommended that potential applicants consider the Graduate Diploma of Business (Administration) (BS73) at the Kedron Park campus.

## **■ Graduate Diploma in Advanced Accounting (BS70)**

**Location:** Gardens Point campus

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

**Total Credit Points:** 96

**Standard Credit Points/Full-Time Semester:** 48

**Course Coordinator:** Associate Professor Peter Best

### 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.

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 subjects (96 credit points total). A minimum of six subjects must be selected from Lists 1, 2 and 3. Up to two postgraduate subjects may be selected from List 4. Refer to Schedule of Postgraduate Subjects within the section entitled Master of Business (Accountancy) for lists.

### Professional Year Higher Degree Program

The Professional Year Higher Degree Program (PYHDP) allows people employed with a chartered accountant in public practice to complete their Professional Year (PY) studies at QUT within the Graduate Diploma in Advanced Accounting.

The PYHDP does not run independently of the PY program as offered by the Institute of Chartered Accountants. QUT presents this program in accordance with the Institute PY syllabus, program and timetable. **Students must enrol with the Institute as well as with QUT.** Not only will they complete the same workshops and module examinations as other PY candidates, they will also be required to complete and to pass internal assessment as set by QUT.

Students enrolled in the PYHDP must complete the following course of study:

AYN117	Financial Reporting
AYN300	Accounting 1 (PY)
FNN300	Accounting 2 (PY)
ALN101	Tax Planning
ALN301	Taxation 1 (PY)
	Elective 1
	Elective 2

Plus one of:

ALN300	Insolvency & Reconstruction (PY)
ALN302	Taxation 2 (PY)
AYN301	Auditing (PY)
FNN301	Management Accounting (PY)

## ■ Graduate Diploma in Business (Administration) (BS73)

**Location:** Kedron Park 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 Jennifer Radbourne

## Entry Requirements

To be eligible for admission, an applicant must hold an approved degree or equivalent. Mature age applicants with extensive experience at an appropriate level will be considered in exceptional circumstances.

## Full-Time Course Structure

Credit  
Points

Contract  
Hrs/Wk

### BUSINESS ADMINISTRATION 1 MAJOR

*Focus: General Management*

#### Year 1, Semester 1

AYN101	Accounting Principles	12	3
COP100	Business Communication	12	3
COP103	Strategic Organisational Thought & Practice 1	12	3
COP116	Skills for Office Automation	12	3
	OR		
	Elective	12	3

#### Year 1, Semester 2

COP104	Strategic Organisational Thought & Practice 2	12	3
ISP855	Microcomputer Applications	12	3
MKP102	Entrepreneurship	12	3
	Elective	12	3

### BUSINESS ADMINISTRATION 2 MAJOR

*Focus: People Management*

#### Year 1, Semester 1

AYN101	Accounting Principles	12	3
	OR		
COP116	Skills for Office Automation	12	3
COB103	Critical Perspectives on Organisation & Environment	12	3
COP100	Business Communication	12	3
COP103	Strategic Organisational Thought & Practice 1	12	3

#### Year 1, Semester 2

COP104	Strategic Organisational Thought & Practice 2	12	3
ISP855	Microcomputer Applications	12	3
	OR		
	Elective	12	3
	Elective	12	3
	Elective	12	3

### ARTS ADMINISTRATION MAJOR

*Focus: Arts Administration and Management*

#### Year 1, Semester 1

AYN101	Accounting Principles	12	3
COP100	Business Communication	12	3
COP101	Arts Administration & Society	12	4
COP103	Strategic Organisational Thought & Practice 1	12	3

#### Year 1, Semester 2

COP102	The Arts Industry	12	4
MKP102	Entrepreneurship	12	3
	Elective	12	3
	Elective	12	3

Students may select elective subjects from:

- Undergraduate and postgraduate courses in industrial relations, law, organisational studies, computing, office administration, marketing and business offered at the Kedron Park campus or

- (ii) subjects in the arts, fundraising, advertising, journalism and public relations offered at the Kelvin Grove and Gardens Point campuses of QUT.

### **Part-Time Course Structure**

For details of the part-time course structure, consult the Course Coordinator.

#### **Note:**

- (i) Students are required to take at least 50 per cent of subjects at graduate diploma level ('P' - level subjects as in COP114, HRP107, MKP103).
- (ii) Students are required to substitute for equivalent studies undertaken in another award.
- (iii) Elective choice should be made in consultation with Course Coordinator.
- (iv) Entry to the Arts Administration major requires a selection interview.
- (v) The offering of any major or subject within the course is subject to minimum enrolments being met in that major or subject.

## **■ Graduate Diploma in Communication Practice (BS72)**

**Location:** Gardens Point campus

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

**Total Credit Points:** 96

**Standard Credit Points/Full-Time Semester:** 48

**Course Coordinator:** Associate Professor Philip Neilsen

### **Entry Requirements**

A degree or diploma from a recognised tertiary institution, with the proviso that diploma graduates may be required to undertake additional work at the discretion of the Course Coordinator.

#### **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.

Bachelor of Business (Communication) graduates, if they enrol in the Graduate Diploma course, must select a major different from their undergraduate major. These students also undertake COP106 Communication Theory 1 instead of COB138 Written Communication: Theory and Practice and MJP101 Communication Theory 2 instead of COB113 Theoretical Perspectives on Communication.

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	Contact Hrs/Wk
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#### Year 1, Semester 1

COB138	Written Communication: Theory & Practice	12	3
MKB116	Principles of Advertising	12	3
MKB118	Advertising Copywriting	12	3
MKB125	Media Planning	12	3

#### Year 1, Semester 2

COB113	Theoretical Perspectives on Communication	12	3
MKB128	Direct Response Advertising	12	3
	Elective	12	3
	Elective	12	3

### Part-Time Course Structure

#### Year 1, Semester 1

COB138	Written Communication: Theory & Practice	12	3
MKB116	Principles of Advertising	12	3

#### Year 1, Semester 2

COB113	Theoretical Perspectives on Communication	12	3
MKB118	Advertising Copywriting	12	3

#### Year 2, Semester 1

MKB125	Media Planning	12	3
	Elective	12	3

#### Year 2, Semester 2

MKB128	Direct Response Advertising	12	3
	Elective	12	3

## FILM AND TELEVISION PRODUCTION MAJOR

### Full-Time Course Structure

	Credit Points	Contact Hrs/Wk
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#### Year 1, Semester 1

COB138	Written Communication: Theory & Practice	12	3
MJB126	Video Production	12	3
MJB127	Narrative Concepts	12	3
MJB129	Film & Television Scriptwriting	12	3

#### Year 1, Semester 2

COB113	Theoretical Perspectives on Communication	12	3
MJB134	Video Documentary Production	12	3
	Elective	12	3
	Elective	12	3

Part-Time Course Structure		Credit Points	Contact Hrs/Wk
<b>Year 1, Semester 1</b>			
COB138	Written Communication: Theory & Practice	12	3
MJB127	Narrative Concepts	12	3
<b>Year 1, Semester 2</b>			
COB113	Theoretical Perspectives on Communication	12	3
MJB126	Video Production	12	3
<b>Year 2, Semester 1</b>			
MJB129	Film & Television Scriptwriting	12	3
	Elective	12	3
<b>Year 2, Semester 2</b>			
MJB134	Video Documentary Production	12	3
	Elective	12	3
<b>FUNDRAISING MAJOR</b>			
Full-Time Course Structure		Credit Points	Contact Hrs/Wk
<b>Year 1, Semester 1</b>			
COB138	Written Communication: Theory & Practice	12	3
MKB140	Principles of Marketing	12	3
MKP100	Fundraising Principles	12	3
	Elective	12	3
<b>Year 1, Semester 2</b>			
COB113	Theoretical Perspectives on Communication	12	3
MKB128	Direct Response Advertising	12	3
MKP101	Fundraising Campaigns	12	3
	Elective	12	3
Part-Time Course Structure		Credit Points	Contact Hrs/Wk
<b>Year 1, Semester 1</b>			
COB138	Written Communication: Theory & Practice	12	3
MKP100	Fundraising Principles	12	3
<b>Year 1, Semester 2</b>			
COB113	Theoretical Perspectives on Communication	12	3
MKB140	Principles of Marketing	12	3
<b>Year 2, Semester 1</b>			
MKB128	Direct Response Advertising	12	3
	Elective	12	3
<b>Year 2, Semester 2</b>			
MKP101	Fundraising Campaigns	12	3
	Elective	12	3
<b>JOURNALISM MAJOR</b>			
Full-Time Course Structure		Credit Points	Contact Hrs/Wk
<b>Year 1, Semester 1</b>			
COB138	Written Communication: Theory & Practice	12	3
MJP100	Journalistic Writing	12	3



MJB139	Journalistic Ethics & Issues	12	3
MJB126	Video Production	12	3
	OR		
	Elective	12	3

### Year 1, Semester 2

COB113	Theoretical Perspectives on Communication	12	3
MJB124	Feature Writing	12	3
MJB122	Sub-editing & Layout	12	3
	OR		
MJB132	Radio & Television Journalism 1	12	3
	Elective	12	3

### Part-Time Course Structure

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

### Year 1, Semester 1

COB138	Written Communication: Theory & Practice	12	3
MJP100	Journalistic Writing	12	3

### Year 1, Semester 2

MJB124	Feature Writing	12	3
MJB126	Video Production	12	3
	OR		
	Elective	12	3

### Year 2, Semester 1

COB113	Theoretical Perspectives on Communication	12	3
MJB139	Journalistic Ethics & Issues	12	3

### Year 2, Semester 2

MJB122	Sub-editing & Layout	12	3
	OR		
MJB132	Radio & Television Journalism 1	12	3
	Elective	12	3

## ORGANISATIONAL COMMUNICATION MAJOR

### Full-Time Course Structure

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

### Year 1, Semester 1

COB106	Group Communication: Theory & Practice	12	3
COB134	Speech Communication: Theory & Practice	12	3
COB138	Written Communication: Theory & Practice	12	3
	Elective	12	3

### Year 1, Semester 2

COB112	Organisational Communication	12	3
COB113	Theoretical Perspectives on Communication	12	3
COB146	Advanced Professional Writing	12	3
	Elective	12	3

### Part-Time Course Structure

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

### Year 1, Semester 1

COB134	Speech Communication: Theory & Practice	12	3
COB138	Written Communication: Theory & Practice	12	3

**Year 1, Semester 2**

COB106	Group Communication: Theory & Practice	12	3
COB113	Theoretical Perspectives on Communication	12	3

**Year 2, Semester 1**

Elective	12	3
Elective	12	3

**Year 2, Semester 2**

COB112	Organisational Communication	12	3
COB146	Advanced Professional Writing	12	3

**PUBLIC RELATIONS MAJOR**

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

COB138	Written Communication: Theory & Practice	12	3
MKB124	Public Relations Principles	12	3
MKB129	Publicity & Promotion - Print	12	3
	Elective	12	3

**Year 1, Semester 2**

COB113	Theoretical Perspectives on Communication	12	3
MKB123	Publication Management	12	3
MKB132	Government & Financial Relations	12	3
	Elective	12	3

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

COB138	Written Communication: Theory & Practice	12	3
MKB124	Public Relations Principles	12	3

**Year 1, Semester 2**

MKB129	Publicity & Promotion - Print	12	3
COB113	Theoretical Perspectives on Communication	12	3

**Year 2, Semester 1**

MKB123	Publication Management	12	3
	Elective	12	3

**Year 2, Semester 2**

MKB132	Government & Financial Relations	12	3
	Elective	12	3

**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 MKB, COB, MJB codes may be waived for students in the Graduate Diploma in Communication Practice at the discretion of the Head of School or his/her nominee.

## ■ Graduate Diploma in Business (Industrial Relations) (BS74)

**Location:** Kedron Park 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 Richard Sappey

### Entry Requirements

To be eligible for admission, an applicant must meet one of the following criteria:

- (i) hold an approved degree or equivalent from a recognised tertiary institution;
- (ii) there exists provision for special entry for people without a degree but with appropriate industrial relations experience.

### Full-Time Course Structure

		<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
<b>Year 1, Semester 1</b>			
ALP101	Employment Law	12	3
HRP100	Comparative Industrial Relations	12	3
HRP104	Industrial Relations Practices	12	3
HRP107	Industrial Relations Theory	12	3

### Year 1, Semester 2

ALP102	Industrial Law	12	3
HRP103	Industrial Relations Policies	12	3
HRP105	Industrial Relations Processes	12	3
HRP106	Industrial Relations Structures	12	3

### Part-Time Course Structure

		<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
<b>Year 1, Semester 1</b>			
HRP104	Industrial Relations Practice	12	3
HRP107	Industrial Relations Theory	12	3

### Year 1, Semester 2

HRP103	Industrial Relations Policies	12	3
HRP105	Industrial Relations Processes	12	3

### Year 2, Semester 1

ALP101	Employment Law	12	3
HRP100	Comparative Industrial Relations	12	3

### Year 2, Semester 2

ALP102	Industrial Law	12	3
HRP106	Industrial Relations Structures	12	3

## ■ Graduate Diploma in Social Science (Human Services Management) (BS76)

**Location:** Carseldine campus

**Course Duration:** 2 years part-time

**Total Credit Points:** 96

**Standard Credit Points/Full-Time Semester:** 48

**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
<b>Year 1, Semester 1</b>			
COP109	Personal & Interpersonal Skills	12	3
SSP800	Service Policies & Principles	12	3
<b>Year 1, Semester 2</b>			
COP118	Management Practices 1	12	4
SSP801	Program Planning & Evaluation	12	3
<b>Year 2, Semester 1</b>			
COP119	Management Practices 2	12	4
Elective	Select one from the following:		
AYN101	Accounting Principles	12	3
COP111	Independent Study 1	12	3
ISP855	Microcomputer Applications	12	3
SSP802	Management in the Community Sector	12	3
<b>Year 2, Semester 2</b>			
COP110	Innovation & Change	12	3
Elective	Select one from the following:		
COP112	Independent Study 2	12	1
COP121	Media Management	12	3
COP120	Office Automation & Administration	12	3

## ■ Bachelor of Business (Honours) (Accountancy) (BS60)

**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:** Professor Scott Holmes

## Entry Requirements

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

A QUT Bachelor of Business (Accountancy) degree or equivalent and usually should have attained a grade point average (GPA) of least 5 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, for whose application is based on other factors including work experience or involvement in research, may be admitted at the discretion of the Course Coordinator.

Course Requirements		Credit Points	Contact Hrs/Wk
<b>Core Subjects</b>			
AYN102	Accounting Research	12	3
AYN115	Financial Accounting Honours	12	3
BSN100	Dissertation	24	
FNN101	Finance Honours	12	3
FNN106	Managerial Accounting Honours	12	3
<b>Elective Subjects</b>			
Select two:			
ALN104	Commercial Law Honours	12	3
ALN110	Taxation Policy Honours	12	3
AYN106	Auditing Honours	12	3
	or any subject from the Master of Business (Accountancy) program		

## ■ Bachelor of Business (Honours) (Communication) (BS61)

**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 Stuart Cunningham

## Entry Requirements

Applicants must have completed a Bachelor of Business degree from QUT or a relevant degree from another university, and must have achieved a level of attainment considered by the Board of Studies to be acceptable for the purposes of proceeding to an Honours degree.

Further information may be obtained by contacting the Faculty of Business Student Affairs office.

Full-Time Course Structure		Credit Points	Contact Hrs/Wk
<b>Year 1, Semester 1</b>			
BSP102	Communication Seminar (in either Communication Management or Media Studies)	12	3
BSP103	Communication Research Methodologies	12	3
COP106	Communication Theory 1	12	3
MJP101	Communication Theory 2	12	3
<b>Year 1, Semester 2</b>			
BSP100	Dissertation	24	
COP108	Communication Technologies & Society	12	3
MJP102	Communication Policy Environment	12	3
Part-Time Course Structure		Credit Points	Contact Hrs/Wk
<b>Year 1, Semester 1</b>			
COP106	Communication Theory 1	12	3
MJP101	Communication Theory 2	12	3
<b>Year 1, Semester 2</b>			
COP108	Communication Technologies & Society	12	3
MJP102	Communication Policy Environment	12	3
<b>Year 2, Semester 1</b>			
BSP102	Communication Seminar	12	3
BSP103	Communication Research Methodologies	12	3
<b>Year 2, Semester 2</b>			
BSP100	Dissertation	24	

## ■ Bachelor of Business (Honours) (Management) (BS62)

**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 Barry Smith

### Entry Requirements

Applicants must have completed a Bachelor of Business degree in Management (or a related discipline) from QUT or a relevant degree from another university, and must have achieved a grade point average (GPA) of 5 or better across the three years of undergraduate study.

Further information may be obtained by contacting the Faculty of Business Student Affairs office.

Full-Time Course Structure		Credit Points	Contact Hrs/Wk
<b>Year 1, Semester 1</b>			
BSB400	Research Methodology	12	3
BSB401	Management Seminar	12	3
BSB402	Advanced Readings Program	12	3
	Elective	12	3
<b>Year 1, Semester 2</b>			
HRB400	Current Issues in Management OR	12	3
HRB401	Strategic Management	12	3
	Thesis	24	
	Elective	12	3
Part-Time Course Structure		Credit Points	Contact Hrs/Wk
<b>Year 1, Semester 1</b>			
BSB400	Research Methodology	12	3
BSB402	Advanced Readings Program	12	3
<b>Year 1, Semester 2</b>			
HRB400	Current Issues in Management OR	12	3
HRB401	Strategic Management	12	3
	Elective	12	3
<b>Year 2, Semester 1</b>			
BSB401	Management Seminar	12	3
	Elective	12	3
<b>Year 2, Semester 2</b>			
	Thesis	24	

## ■ Special requirements for the Bachelor of Business degree course in the Faculty of Business

- ☐ 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 (BS50)

**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

### **Associate Coordinators:**

Accountancy, Banking and Finance and Accounting Legal Studies – Ms Chris Ryan  
Human Resource Management, Management and Industrial Relations – Mr Paul Sutcliffe  
Economics, International Business and Public Administration – Dr Mike Quayle  
Organisational Communication and Organisational Studies – Ms Ros Petelin  
Marketing, Advertising and Public Relations – Mr Terry Euler  
Journalism and Film and TV – Associate Professor Len Granato

### **Course Requirements**

Students commencing the Bachelor of Business from 1992 onwards must complete the following requirements:

- (i) 24 subjects totalling 288 credit points;
- (ii) these subjects will comprise four faculty core subjects, four subjects as required by a student's Board of Studies and eight specific subjects comprising a Primary Major and one of the following:
  - (a) Extended Major and four electives or a minor
  - (b) Secondary Major
  - (c) two minors
  - (d) one Minor and four electives
  - (e) eight electives.

Electives may be chosen from any degree course at QUT or at any other recognised University subject to the approval of the student's Course Coordinator. Synopses of the specialist elective subjects offered by the Faculty of Business can be found commencing on page 721.

### **DEFINITIONS**

Different types of Major

- (i) **Primary Major** – a group of eight specified subjects in a particular discipline area. These subjects are specified in the course outline.  
Primary means the discipline in which the student wishes to graduate.  
Every graduate in the Bachelor of Business will have a primary major.
- (ii) **Secondary Major** – a coherent group of eight specified subjects in a discipline area different to the primary major.
- (iii) **Minor** – a coherent group of four specified subjects in a discipline area.
- (iv) **Extended Major** – an additional group of four specified subjects in the same discipline area as the primary major.

## **□ Accountancy Major (ACA)**

### **ACCOUNTANCY PRIMARY MAJOR**

**Location:** School of Accountancy Gardens Point and Kedron Park campuses, Sunshine Coast Centre (1st year only)

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

**Total Credit Points:** 288

**Standard Credit Points/Full-Time Semester:** 48

**Course Coordinator:** Ms Chris Ryan



## Professional Recognition

Students completing the Bachelor of Business (Accountancy) degree satisfy the academic requirements for membership of various professional associations and statutory bodies provided the extended major indicated below is completed.

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); Companies Auditors Board (CAB); Tax Agents Registration Board (TARB); Australian Computer Society (ACS). The degree is also recognised for undergraduate membership by the Institute of Chartered Secretaries and Administrators (ICS&A) and also the Institute of Corporate Managers, Secretaries and Administrators (ICMS&A) provided students complete Company Secretarial Practice and Finances 3 as electives.

To satisfy the academic requirements for Associate level membership of the ASCPA, graduates must have completed the Accountancy major.

To satisfy the academic requirements for CPA level membership of the ASCPA and membership of the ICA, graduates must complete the Professional Accounting Extended Major.

### ACCOUNTANCY EXTENDED MAJOR

Full-Time Course Structure		Credit Points	Contact Hrs/Wk
<b>Year 1, Semester 1</b>			
AYB110	Accounting	12	4
EPB150	Microeconomics	12	3
FNB102	Business Computing	12	3/4
MAB173	Quantitative Methods	12	3
<b>Year 1, Semester 2</b>			
ALB110	Business Law	12	3
AYB111	Financial Accounting	12	4
EPB110	Business Statistics	12	3
EPB140	Macroeconomics	12	3
<b>Year 2, Semester 1</b>			
ALB122	Law of Business Associations	12	3
AYB101	Computerised Accounting Systems	12	3
AYB112	Company Accounting	12	4
COB160	Professional Communication (Business)	12	3
<b>Year 2, Semester 2</b>			
AYB210	Auditing	12	4
BSB102	Management & Organisation	12	3
FNB111	Finance 1	12	4
FNB123	Managerial Accounting 1	12	4
<b>Year 3, Semester 1</b>			
ALB132	Taxation Law	12	3
FNB112	Finance 2	12	4
FNB124	Managerial Accounting 2	12	4
	Elective	12	
<b>Year 3, Semester 2</b>			
AYB113	Accounting Theory & Applications	12	4
	Elective	12	
	Elective	12	
	Elective	12	

Part-Time Course Structure		Credit Points	Contact Hrs/Wk
<b>Year 1, Semester 1</b>			
AYB110	Accounting	12	4
EPB150	Microeconomics	12	3
<b>Year 1, Semester 2</b>			
AYB111	Financial Accounting	12	4
EPB140	Macroeconomics	12	3
<b>Year 2, Semester 1</b>			
FNB102	Business Computing	12	3/4
MAB173	Quantitative Methods	12	3
<b>Year 2, Semester 2</b>			
ALB110	Business Law	12	3
EPB110	Business Statistics	12	3
<b>Year 3, Semester 1</b>			
AYB101	Computerised Accounting Systems	12	3
COB160	Professional Communication (Business)	12	3
<b>Year 3, Semester 2</b>			
BSB102	Management & Organisation	12	3
FNB111	Finance 1	12	4
<b>Year 4, Semester 1</b>			
AYB112	Company Accounting	12	4
ALB122	Law of Business Associations	12	3
<b>Year 4, Semester 2</b>			
AYB210	Auditing	12	4
FNB123	Managerial Accounting 1	12	4
<b>Year 5, Semester 1</b>			
ALB132	Taxation Law	12	3
FNB112	Finance 2	12	4
<b>Year 5, Semester 2</b>			
AYB113	Accounting Theory & Applications	12	4
	Elective	12	
<b>Year 6, Semester 1</b>			
FNB124	Managerial Accounting 2	12	4
	Elective	12	
<b>Year 6, Semester 2</b>			
	Elective	12	
	Elective	12	

#### **BUSINESS LAW AND TAXATION SECONDARY MAJOR**

(For Bachelor of Business (Accountancy) students only.)

To complete the Business Law and Taxation Secondary Major, students must complete the Accountancy Extended Major and select four of the following subjects as electives:

#### **Secondary Major Options**

ALB100	Administrative Law
ALB103	Financial Institutions Law
ALB111	Commercial & Securities Law
ALB120	Company Law & Practice

ALB121	Insolvency Law & Practice
ALB130	Indirect Taxation
ALB131	Tax Planning
ALB133	Taxation of Business Entities

## ACCOUNTANCY WITH BUSINESS COMPUTING SECONDARY MAJOR

### Full-Time Course Structure

#### Year 1, Semester 1

AYB110	Accounting	12	4
CSB181	Introduction to Computer Science*	12	4
EPB150	Microeconomics	12	3
MAB173	Quantitative Methods	12	3

#### Year 1, Semester 2

AYB111	Financial Accounting	12	4
EPB110	Business Statistics	12	3
EPB140	Macroeconomics	12	3
FNB102	Business Computing	12	3/4

#### Year 2, Semester 1

ALB110	Business Law	12	3
AYB101	Computerised Accounting Systems	12	3
COB160	Professional Communication (Business)	12	3
ISB283	Database & Procedural Languages*	12	4

#### Year 2, Semester 2

BSB102	Management & Organisation	12	3
FNB123	Managerial Accounting 1	12	4
ISB281	Info. Systems Analysis & Design 1*	12	4
ITB508	Data Communications*	12	4

#### Year 3, Semester 1

AYB112	Company Accounting	12	4
AYB210	Auditing	12	4
FNB124	Managerial Accounting 2	12	4
ISP381	Advanced Information Systems*	12	3
	OR		
ISP383	Office Information Systems*	12	3

#### Year 3, Semester 2

AYB113	Accounting Theory & Applications	12	4
AYB212	Computer Security & Audit	12	3
FNB111	Finance 1	12	4
	Elective+	12	

### Part-Time Course Structure

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

#### Year 1, Semester 1

AYB110	Accounting	12	4
EPB150	Microeconomics	12	3

#### Year 1, Semester 2

AYB111	Financial Accounting	12	4
EPB140	Macroeconomics	12	3

\* Subject names and content to be determined by the Faculty of Information Technology.

+ Computing Electives.

**Year 2, Semester 1**

CSB181	Introduction to Computer Science*	12	4
MAB173	Quantitative Methods	12	3

**Year 2, Semester 2**

EPB110	Business Statistics	12	3
FNB102	Business Computing	12	3/4

**Year 3, Semester 1**

AYB101	Computerised Accounting Systems	12	3
COB160	Professional Communication (Business)	12	3

**Year 3, Semester 2**

BSB102	Management & Organisation	12	3
ISB281	Information Systems Analysis & Design 1	12	4

**Year 4, Semester 1**

ALB110	Business Law	12	3
AYB112	Company Accounting	12	4

**Year 4, Semester 2**

FNB123	Managerial Accounting 1	12	4
ITB508	Data Communications*	12	4

**Year 5, Semester 1**

AYB210	Auditing	12	4
ISB283	Database & Procedural Languages*	12	4

**Year 5, Semester 2**

AYB212	Computer Security & Audit	12	3
FNB111	Finance 1	12	4

**Year 6, Semester 1**

FNB124	Managerial Accounting 2	12	4
ISP381	Advanced Information Systems*	12	3
	OR		
ISP383	Office Information Systems*	12	3

**Year 6, Semester 2**

AYB113	Accounting Theory & Applications	12	4
	Elective+	12	

**□ Advertising Major (ADV)**

**Location:** School of Marketing, Advertising and Public Relations Gardens Point campus

**Course Duration:** 3 years full-time or 6 years part-time

**Total Credit Points:** 288

**Coordinator:** Mr Terry Euler

**Standard Credit Points/Full-Time Semester:** 48

\* Subject names and content to be determined by the Faculty of Information Technology.

+ Computing Electives.

## Professional Recognition

The course is accredited by the Advertising Institute of Australia. It is also endorsed by the Advertising Federation of Australia, the Australian Association of National Advertisers and the Australian Direct Marketing Association.

Graduates are eligible for Associate Membership (Dip) of the Advertising Institute of Australia.

### Full-Time Course Structure

**Credit  
Points**

**Contact  
Hrs/Wk**

#### Year 1, Semester 1

COB113	Theoretical Perspectives on Communication	12	3
FNB102	Business Computing	12	3
MKB112	Research Methods	12	3
MKB140	Principles of Marketing	12	3

#### Year 1, Semester 2

COB134	Speech Communication: Theory & Practice	12	3
COB138	Written Communication: Theory & Practice	12	3
MKB116	Principles of Advertising	12	3
MKB142	Consumer Behaviour	12	3

#### Year 2, Semester 1

MKB118	Advertising Copywriting	12	3
MKB122	Advertising Regulation & Ethics	12	3
MKB141	Marketing Management	12	3
	Elective (Video Production)	12	

#### Year 2, Semester 2

EPB124	Government	12	3
MKB125	Media Planning	12	3
	Elective (Advertising Copywriting - Electronic)		
	Elective (Retail Advertising)		

#### Year 3, Semester 1

COB106	Group Communication: Theory & Practice	12	3
EPB116	Economic Principles	12	3
MKB126	Advertising Management	12	3
	Elective	12	

#### Year 3, Semester 2

MKB128	Direct Response Advertising	12	3
MKB131	Advertising Campaigns	12	3
MKB155	Strategic Marketing	12	3
	Elective	12	

### Part-Time Course Structure

**Credit  
Points**

**Contact  
Hrs/Wk**

#### Year 1, Semester 1

FNB102	Business Computing	12	3
MKB140	Principles of Marketing	12	3

#### Year 1, Semester 2

COB113	Theoretical Perspectives on Communication	12	3
MKB112	Research Methods	12	3

#### Year 2, Semester 1

COB138	Written Communication: Theory & Practice	12	3
MKB116	Principles of Advertising	12	3

**Year 2, Semester 2**

MKB118	Advertising Copywriting	12	3
MKB122	Advertising Regulation & Ethics	12	3

**Year 3, Semester 1**

MKB125	Media Planning	12	3
MKB142	Consumer Behaviour	12	3

**Year 3, Semester 2**

COB134	Speech Communication: Theory & Practice	12	3
	Elective	12	

**Year 4, Semester 1**

MKB141	Marketing Management	12	3
	Elective	12	

**Year 4, Semester 2**

EPB116	Economic Principles	12	3
MKB126	Advertising Management	12	3

**Year 5, Semester 1**

MKB128	Direct Response Advertising	12	3
	Elective	12	

**Year 5, Semester 2**

COB106	Group Communication: Theory & Practice	12	3
	Elective		

**Year 6, Semester 1**

EPB124	Government	12	3
MKB131	Advertising Campaigns	12	3

**Year 6, Semester 2**

MKB155	Strategic Marketing	12	3
	Elective	12	

**□ Banking and Finance Major (BKF)****BANKING AND FINANCE PRIMARY MAJOR****Location:** School of Finance, 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:** Ms Chris Ryan**Professional Recognition**

Students completing the Bachelor of Business (Banking and Finance) degree satisfy the academic requirements for membership of various professional associations.

The degree is recognised for membership purposes by the Australian Institute of Bankers. If the subjects Law of Business Associations, Auditing, Taxation Law and Accounting Theory and Applications are completed as electives, students will satisfy the academic requirements for CPA level membership of ASCPA and membership of the ICA. If the subjects Law of Business Associations, Company Secretarial Practice and Finance 3 are

included as electives, students will satisfy the academic requirements for membership of the Institute of Chartered Secretaries and Administrators (ICSA) and the Institute of Corporate Managers, Secretaries and Administrators (ICMSA).

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

AYB110	Accounting	12	4
EPB150	Microeconomics	12	3
FNB102	Business Computing	12	3/4
MAB173	Quantitative Methods	12	3

**Year 1, Semester 2**

ALB110	Business Law	12	3
AYB111	Financial Accounting	12	4
EPB110	Business Statistics	12	3
EPB140	Macroeconomics	12	3

**Year 2, Semester 1**

ALB103	Financial Institutions Law	12	3
AYB112	Company Accounting	12	4
COB160	Professional Communication (Business)	12	3
FNB111	Finance 1	12	4

**Year 2, Semester 2**

BSB102	Management & Organisation	12	3
FNB112	Finance 2	12	4
FNB117	Financial Modelling	12	4
FNB123	Managerial Accounting 1	12	4

**Year 3, Semester 1**

FNB100	Australian Financial Markets	12	3
FNB114	Financial Institutions - Lending	12	3
	Elective	12	
	Elective	12	

**Year 3, Semester 2**

FNB120	International Finance	12	4
FNB115	Financial Institutions - Management	12	4
	Elective	12	
	Elective	12	

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

AYB110	Accounting	12	4
EPB150	Microeconomics	12	3

**Year 1, Semester 2**

AYB111	Financial Accounting	12	4
EPB140	Macroeconomics	12	3

**Year 2, Semester 1**

FNB102	Business Computing	12	3/4
MAB173	Quantitative Methods	12	3

**Year 2, Semester 2**

ALB110	Business Law	12	3
EPB110	Business Statistics	12	3

**Year 3, Semester 1**

COB160	Professional Communication (Business)	12	3
FNB111	Finance 1	12	4

**Year 3, Semester 2**

BSB102	Management & Organisation	12	3
FNB112	Finance 2	12	4

**Year 4, Semester 1**

ALB103	Financial Institutions Law	12	3
AYB112	Company Accounting	12	4

**Year 4, Semester 2**

FNB117	Financial Modelling	12	4
FNB123	Managerial Accounting 1	12	4

**Year 5, Semester 1**

FNB100	Australian Financial Markets	12	3
FNB114	Financial Institutions - Lending	12	3

**Year 5, Semester 2**

FNB115	Financial Institutions - Management	12	4
	Elective	12	

**Year 6, Semester 1**

	Elective	12	
	Elective	12	

**Year 6, Semester 2**

FNB120	International Finance	12	4
	Elective	12	

**□ Economics Major (ECO)**

**Location:** School of Economics and Public Policy, Gardens Point and Kedron Park campuses

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

**Total Credit Points:** 288

**Standard Credit Points/Full-Time Semester:** 48

**Course Coordinator:** Dr Mike Quayle

**Professional Recognition**

This degree satisfies the academic requirements for the Economics Society of Australia, the Chartered Institute of Transport, the Market Research Society and the Australian Marketing Institute.

**Full-Time Course Structure**

		<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
<b>Year 1, Semester 1</b>			
BSB102	Management & Organisation	12	3
	OR		
EPB124	Government	12	3
EPB140	Macroeconomics	12	3



FNB102	Business Computing	12	3
MAB173	Quantitative Methods	12	3

### Year 1, Semester 2

AYB110	Accounting	12	4
EPB106	Australian Economic History	12	3
EPB110	Business Statistics	12	3
EPB150	Microeconomics	12	3

### Year 2, Semester 1

BSB102	Management & Organisation OR	12	3
EPB124	Government OR Elective	12	3
EPB104	Applied Economic Techniques 1	12	3
EPB142	Macroeconomic Theory	12	3
EPB152	Microeconomic Theory	12	3

### Year 2, Semester 2

EPB141	Macroeconomic Policy	12	3
EPB151	Microeconomic Policy Major Option Elective	12 12 12	3

### Year 3, Semester 1

Major Option	12
Extended Major Option	12
Extended Major Option	12
Elective	12

### Year 3, Semester 2

Extended Major Option	12
Extended Major Option	12
Elective	12
Elective	12

### Part-Time Course Structure

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

### Year 1, Semester 1

EPB140	Macroeconomics	12	3
FNB102	Business Computing	12	3/4

### Year 1, Semester 2

BSB102	Management & Organisation OR	12	3
EPB124	Government	12	3
MAB173	Quantitative Methods	12	3

### Year 2, Semester 1

AYB110	Accounting	12	4
EPB150	Microeconomics	12	3

### Year 2, Semester 2

EPB106	Australian Economic History	12	3
EPB110	Business Statistics	12	3

### Year 3, Semester 1

EPB142	Macroeconomic Theory	12	3
EPB152	Microeconomic Theory	12	3

**Year 3, Semester 2**

EPB141	Macroeconomic Policy	12	3
EPB151	Microeconomic Policy	12	3

**Year 4, Semester 1**

BSB102	Management & Organisation	12	3
	OR		
EPB124	Government	12	3
	OR		
	Elective	12	
EPB104	Applied Economic Techniques 1	12	3

**Year 4, Semester 2**

Major Option	12
Elective	12

**Year 5, Semester 1**

Major Option	12
Elective	12

**Year 5, Semester 2**

Extended Major Option	12
Elective	12

**Year 6, Semester 1**

Extended Major Option	12
Extended Major Option	12

**Year 6, Semester 2**

Extended Major Option	12
Elective	12

**MAJOR AND EXTENDED MAJOR OPTIONS**

EPB102	Applied Econometrics A*	12	3
EPB103	Applied Econometrics B	12	3
EPB107	Business Economic Forecasting	12	3
EPB111	Comparative Economic Systems	12	3
EPB114	Economic Development	12	3
EPB115	Economic Model Building	12	3
EPB117	Economics of Industry	12	3
EPB127	History of Economic Thought	12	3
EPB130	International Economics*	12	3
EPB144	Mathematical Economic Applications*	12	3
EPB153	Monetary Theory & Policy	12	3
EPB158	Public Finance	12	3
EPB160	Public Sector Economics*	12	3
EPB164	Spatial & Regional Economics	12	3
EPB168	Transport & Communication Economics	12	3
FNB111	Finance 1	12	4

**□ Film and TV Production Major (FTV)**

**Location:** School of Media and Journalism, Gardens Point campus

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

**Total Credit Points:** 288

\* Denotes Major Option.

**Standard Credit Points/Full-Time Semester: 48****Coordinator: Mr Ridley Williams****Full-Time Course Structure****Credit  
Points****Contact  
Hrs/Wk****Year 1, Semester 1**

COB113	Theoretical Perspectives on Communication	12	3
COB138	Written Communication: Theory & Practice	12	3
FNB102	Business Computing	12	3/4
MJB118	Fundamentals of Photography	12	3

**Year 1, Semester 2**

COB134	Speech Communication: Theory & Practice	12	3
MJB108	Creative Sound & Image	12	3
MJB120	Newsriting	12	3
MJB127	Narrative Concepts	12	3

**Year 2, Semester 1**

COB106	Group Communication: Theory & Practice	12	3
MJB126	Video Production	12	3
MJB129	Film & Television Scriptwriting	12	3
	Elective	12	

**Year 2, Semester 2**

MJB113	Film Drama Production	12	3
MJB116	Film Language & Genre	12	3
MJB134	Video Documentary Production	12	3
	Elective	12	

**Year 3, Semester 1**

MJB104	Media Industries & Issues	12	3
MJB114	Film & Video Business	12	3
MJB131	Television Studio/Post Production	12	3
	Elective	12	

**Year 3, Semester 2**

BSB102	Management & Organisation	12	3
EPB116	Economic Principles	12	3
MJB102	Advanced Text Analysis	12	3
	OR		
MJB115	Supervised Project Film & TV	12	3
	Elective	12	

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

COB138	Written Communication: Theory & Practice	12	3
FNB102	Business Computing	12	3/4

**Year 1, Semester 2**

COB113	Theoretical Perspectives on Communication	12	3
MJB118	Fundamentals of Photography	12	3

**Year 2, Semester 1**

COB134	Speech Communication: Theory & Practice	12	3
MJB127	Narrative Concepts	12	3

**BUSINESS**

**Year 2, Semester 2**

MJB120	Newsriting	12	3
MJB129	Film & Television Scriptwriting	12	3

**Year 3, Semester 1**

MJB108	Creative Sound & Image	12	3
MJB116	Film Language & Genre	12	3

**Year 3, Semester 2**

COB106	Group Communication: Theory & Practice	12	3
MJB126	Video Production	12	3

**Year 4, Semester 1**

EPB116	Economic Principles	12	3
MJB134	Video Documentary Production	12	3

**Year 4, Semester 2**

MJB104	Media Industries & Issues	12	3
MJB131	Television Studio/Post Production	12	3

**Year 5, Semester 1**

MJB113	Film Drama Production	12	3
	Elective	12	

**Year 5, Semester 2**

MJB114	Film & Video Business	12	3
	Elective	12	

**Year 6, Semester 1**

MJB102	Advanced Text Analysis	12	3
	OR		
MJB115	Supervised Project Film & TV	12	3
	Elective	12	

**Year 6, Semester 2**

BSB102	Management & Organisation	12	3
	Elective	12	

**□ Human Resource Management Major (HRM)**

**Location:** School of Human Resource Management and Labour Relations, 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 Paul Sutcliffe

**Professional Recognition**

This degree satisfies the academic requirements for membership of the Australian Institute of Management, the Australian Institute of Training and Development and the Institute of Personnel Management, Australia.

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

BSB102 Management &amp; Organisation

12

3

EPB116 Economic Principles

12

3

OR

EPB140 Macroeconomics\*

12

3

EPB124 Government

12

3

HRB130 Organisational Behaviour

12

3

**Year 1, Semester 2**

AYB100 Accounting for Managers

12

3

EPB109 Business Methodology

12

3

FNB102 Business Computing

12

3/4

HRB131 Personnel Management &amp; Industrial Relations

12

3

**Year 2, Semester 1**

HRB105 Human Resources &amp; the Organisation

12

3

Major Option

12

Elective

12

Elective

12

**Year 2, Semester 2**

HRB103 Employment Regulation &amp; Administration

12

3

HRB104 Foundation HRM Competencies

12

3

Major Option

12

Elective

12

**Year 3, Semester 1**

HRB100 Advanced Organisational Behaviour

12

3

Major Option

12

Elective

12

Elective

12

**Year 3, Semester 2**

HRB136 Strategic HRM

12

3

Elective

12

Elective

12

Elective

12

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

BSB102 Management &amp; Organisation

12

3

EPB116 Economic Principles

12

3

OR

EPB140 Macroeconomics\*

12

3

**Year 1, Semester 2**

HRB130 Organisational Behaviour

12

3

HRB131 Personnel Management &amp; Industrial Relations

12

3

**Year 2, Semester 1**

EPB124 Government

12

3

FNB102 Business Computing

12

3/4

**Year 2, Semester 2**

AYB100 Accounting for Managers

12

3

EPB109 Business Methodology

12

3

\* Students selecting Macroeconomics must also include Microeconomics in their program.

**Year 3, Semester 1**

HRB105	Human Resources & the Organisation	12	3
	Major Option	12	

**Year 3, Semester 2**

HRB103	Employment Regulation & Administration	12	3
HRB104	Foundation HRM Competencies	12	3

**Year 4, Semester 1**

Elective	12	
Elective	12	

**Year 4, Semester 2**

Major Option	12	
Elective	12	

**Year 5, Semester 1**

HRB100	Advanced Organisational Behaviour	12	3
	Elective	12	

**Year 5, Semester 2**

Elective	12	
Elective	12	

**Year 6, Semester 1**

Major Option	12	
Elective	12	

**Year 6, Semester 2**

HRB136	Strategic HRM	12	3
	Elective	12	

**MAJOR AND EXTENDED MAJOR OPTIONS**

Extended majors are any four subjects from the list of options not already completed in the major.

COB102	Consulting For Organisational Change	12	3
COB111	Organisational Change: Applications	12	3
HRB101	Advanced Training & Development	12	3
HRB102	Advocacy & Negotiation	12	3
HRB107	Independent Study - HRD	12	3
	OR		
HRB108	Independent Study - HRM	12	3
HRB114	Industrial Relations Institutions	12	3
HRB119	Interviewing & Counselling	12	3
HRB120	Introductory Training & Development	12	3
HRB128	Occupational Health & Safety Management	12	3
HRB134	Recruitment & Selection	12	3
HRB146	Special Topic - HRM	12	3
HRB403	Quality Management	12	3

**☐ Industrial Relations Major (IRE) (not on offer 1992)**

**Location:** School of Human Resource Management and Labour Relations, 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 Paul Sutcliffe****Full-Time Course Structure****Credit  
Points****Contact  
Hrs/Wk****Year 1, Semester 1**

BSB102	Management & Organisation	12	3
EPB116	Economic Principles*	12	3
	OR		
EPB140	Macroeconomics*	12	3
EPB124	Government	12	3
HRB130	Organisational Behaviour	12	3

**Year 1, Semester 2**

EPB106	Australian Economic History*	12	3
	OR		
EPB150	Microeconomics*	12	3
FNB102	Business Computing	12	3/4
HRB114	Industrial Relations Institutions	12	3
HRB131	Personnel Management & Industrial Relations	12	3

**Year 2, Semester 1**

ALB104	Industrial Law	12	3
HRB113	Industrial Relations History	12	3
HRB138	Work & Society	12	3
	Elective	12	

**Year 2, Semester 2**

HRB137	Wages & Employment	12	3
	Core Option	12	
	Major Option	12	
	Elective	12	

**Year 3, Semester 1**

	Major Option	12	
	Elective	12	
	Elective	12	
	Elective	12	

**Year 3, Semester 2**

	Major Option	12	
	Elective	12	
	Elective	12	
	Elective	12	

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

BSB102	Management & Organisation	12	3
EPB116	Economic Principles*	12	3
	OR		
EPB140	Macroeconomics*	12	3

**Year 1, Semester 2**

HRB130	Organisational Behaviour	12	3
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\* Students must complete either EPB140 Macroeconomics and EPB150 Microeconomics or EPB116 Economics Principles and EPB106 Australian Economic History.

HRB131	Personnel Management & Industrial Relations	12	3
<b>Year 2, Semester 1</b>			
EPB124	Government	12	3
FNB102	Business Computing	12	3/4
<b>Year 2, Semester 2</b>			
EPB150	Microeconomics*	12	3
	OR		
EPB106	Australian Economic History*	12	3
	Core Option	12	
<b>Year 3, Semester 1</b>			
HRB113	Industrial Relations History	12	3
HRB114	Industrial Relations Institutions	12	3
<b>Year 3, Semester 2</b>			
ALB104	Industrial Law	12	3
HRB138	Work & Society	12	3
<b>Year 4, Semester 1</b>			
HRB137	Wages & Employment	12	3
	Elective	12	
<b>Year 4, Semester 2</b>			
	Major Option	12	
	Elective	12	
<b>Year 5, Semester 1</b>			
	Major Option	12	
	Elective	12	
<b>Year 5, Semester 2</b>			
	Major Option	12	
	Elective	12	
<b>Year 6, Semester 1</b>			
	Elective	12	
	Elective	12	
<b>Year 6, Semester 2</b>			
	Elective	12	
	Elective	12	
<b>Core Options</b>			
AYB100	Accounting for Managers	12	3
EPB109	Business Methodology	12	3
EPB112	Critical Analysis	12	3
MAB173	Quantitative Methods	12	3

#### MAJOR AND EXTENDED MAJOR OPTIONS

Extended majors are any four subjects from the list of options not already completed in the major.

HRB102	Advocacy & Negotiation	12	3
HRB103	Employment Regulation & Administration	12	3
HRB105	Human Resources & The Organisation	12	3
HRB109	Industrial Democracy	12	3
HRB115	Industrial Relations Policies	12	3
HRB144	Public Sector Industrial Relations	12	3
HRP100	Comparative Industrial Relations	12	3

\* Students must complete either EPB140 Macroeconomics and EPB150 Microeconomics or EPB116 Economics Principles and EPB106 Australian Economic History.



## □ International Business Major (INB)

**Location:** School of Economics and Public Policy, 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:** Dr Mike Quayle

### Professional Recognition

This degree satisfies the academic requirements for membership of the Australian Business Economists Society.

### Full-Time Course Structure

**Credit  
Points**

**Contact  
Hrs/Wk**

#### Year 1, Semester 1

BSB102	Management & Organisation	12	3
EPB140	Macroeconomics	12	3
FNB102	Business Computing Language 1	12	3/4

#### Year 1, Semester 2

AYB100	Accounting for Managers OR	12	3
AYB110	Accounting	12	4
EPB150	Microeconomics	12	3
EPB163	Research & Survey Methods OR	12	3
MAB173	Quantitative Methods Language 2	12	3

#### Year 2, Semester 1

ALB110	Business Law	12	3
COB160	Professional Communication OR	12	3
EPB124	Government	12	3
MKB140	Principles of Marketing Language 3	12	3

#### Year 2, Semester 2

EPB132	International Trade & Finance	12	3
	Area Studies 1	12	
	Language 4	12	
	Elective	12	

#### Year 3, Semester 1

FNB111	Finance 1*	12	4
	Area Studies 2	12	
EPB133	Globalisation & World Business*	12	3
	Elective	12	

#### Year 3, Semester 2

ALB105	International Business Law*	12	3
	OR		
EPB131	International Politics & Business*	12	3

\* Denotes Extended Major subject.

MKB149	International Marketing*	12	3
	Elective	12	
	Elective	12	
<b>Part-Time Course Structure</b>		<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
<b>Year 1, Semester 1</b>			
BSB102	Management & Organisation	12	3
FNB102	Business Computing	12	3/4
<b>Year 1, Semester 2</b>			
EPB140	Macroeconomics	12	3
MAB173	Quantitative Methods	12	3
	OR		
EPB163	Research & Survey Methods	12	3
<b>Year 2, Semester 1</b>			
AYB100	Accounting for Managers	12	3
	OR		
AYB110	Accounting	12	4
COB160	Professional Communication (Business)	12	3
	OR		
EPB124	Government	12	3
<b>Year 2, Semester 2</b>			
ALB110	Business Law	12	3
EPB150	Microeconomics	12	3
<b>Year 3, Semester 1</b>			
MKB140	Principles of Marketing	12	3
	Language 1	12	
<b>Year 3, Semester 2</b>			
	Language 2	12	
	Area Studies 1	12	
<b>Year 4, Semester 1</b>			
FNB111	Finance 1	12	4
	OR		
	Elective	12	
	Language 3	12	
<b>Year 4, Semester 2</b>			
EPB132	International Trade & Finance	12	3
	Language 4	12	
<b>Year 5, Semester 1</b>			
EPB133	Globalisation & World Business	12	3
	OR		
	Elective	12	
	Area Studies 2	12	
<b>Year 5, Semester 2</b>			
MKB149	International Marketing	12	3
	Elective	12	
<b>Year 6, Semester 1</b>			
	Elective	12	
	Elective	12	

\* Denotes Extended Major subject.

**Year 6, Semester 2**

ALB105	International Business Law	12	3
	OR		
EPB131	International Politics & Business	12	3
	Elective	12	

**Area Studies Options**

Students must select either Europe or Asia.

**ASIA**

EPB105	Asian Economic Development	12	3
EPB108	Business in Asia	12	3

**EUROPE**

EPB120	European Economic History	12	3
EPB121	European Integration	12	3

**□ Journalism Major (JOU)**

**Location:** School of Media and Journalism, Gardens Point campus

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

**Total Credit Points:** 288

**Standard Credit Points/Full-Time Semester:** 48

**Coordinator:** Dr Erol Hodge

**Professional Recognition**

This degree is recognised by the Australian Journalists' Association.

**Full-Time Course Structure**

**Credit  
Points**

**Contact  
Hrs/Wk**

**Year 1, Semester 1**

COB113	Theoretical Perspectives on Communication	12	3
COB138	Written Communication: Theory & Practice	12	3
FNB102	Business Computing	12	3/4
MJB120	Newsriting	12	3

**Year 1, Semester 2**

COB134	Speech Communication: Theory & Practice	12	3
EPB116	Economic Principles	12	3
EPB124	Government	12	3
MJB121	Reporting Principles	12	3

**Year 2, Semester 1**

COB106	Group Communication: Theory & Practice	12	3
MJB124	Feature Writing	12	3
MJB126	Video Production	12	3
	Elective	12	

**Year 2, Semester 2**

COB144	Literature & Communication	12	3
MJB132	Radio/Television Journalism 1	12	3
MJB139	Journalistic Ethics & Issues	12	3
	Elective	12	

**Year 3, Semester 1**

MBJ104	Media Industries & Issues	12	3
MBJ122	Sub-editing & Layout	12	3
MBJ138	Radio/Television Journalism 2	12	3
	Elective	12	

**Year 3, Semester 2**

MBJ102	Advanced Text Analysis	12	3
MBJ103	News Production	12	3
MBJ137	Public Affairs Reporting	12	3
	Elective	12	

**Part-Time Course Structure**

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

**Year 1, Semester 1**

COB138	Written Communication: Theory & Practice	12	3
FNB102	Business Computing	12	3/4

**Year 1, Semester 2**

COB113	Theoretical Perspectives on Communication	12	3
MBJ120	News Writing	12	3

**Year 2, Semester 1**

COB134	Speech Communication: Theory & Practice	12	3
MBJ121	Reporting Principles	12	3

**Year 2, Semester 2**

EPB116	Economic Principles	12	3
MBJ124	Feature Writing	12	3

**Year 3, Semester 1**

EPB124	Government	12	3
MBJ139	Journalistic Ethics & Issues	12	3

**Year 3, Semester 2**

COB106	Group Communication: Theory & Practice	12	3
MBJ126	Video Production	12	3

**Year 4, Semester 1**

COB144	Literature & Communication	12	3
MBJ132	Radio/Television Journalism 1	12	3

**Year 4, Semester 2**

MBJ104	Media Industries & Issues	12	3
MBJ138	Radio/Television Journalism 2	12	3

**Year 5, Semester 1**

MBJ137	Public Affairs Reporting	12	3
	Elective	12	

**Year 5, Semester 2**

MBJ122	Sub-editing & Layout	12	3
	Elective	12	

**Year 6, Semester 1**

MBJ102	Advanced Text Analysis	12	3
MBJ103	News Production	12	3

## Year 6, Semester 2

Elective	12
Elective	12

## □ Management Major (MAN)

**Location:** School of Human Resource Management and Labour Relations, Gardens Point and Kedron Park campuses

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

**Total Credit Points:** 288

**Standard Credit Points/Full-Time Semester:** 48

**Coordinator:** Mr Paul Sutcliffe

### Professional Recognition

This major satisfies the academic requirements for membership of the Australian Institute of Management.

Full-Time Course Structure		Credit Points	Contact Hrs/Wk
<b>Year 1, Semester 1</b>			
BSB102	Management & Organisation	12	3
EPB116	Economic Principles*	12	3
	OR		
EPB140	Macroeconomics*	12	3
EPB124	Government	12	3
HRB130	Organisational Behaviour	12	3
<b>Year 1, Semester 2</b>			
AYB100	Accounting for Managers	12	3
EPB150	Microeconomics*	12	3
	OR		
EPB106	Australian Economic History*	12	3
FNB102	Business Computing	12	3/4
HRB131	Personnel Management & Industrial Relations	12	3
<b>Year 2, Semester 1</b>			
HRB126	Management Processes	12	3
HRB127	Management Theory & Issues	12	3
	Major Option	12	
	Elective	12	
<b>Year 2, Semester 2</b>			
HRB116	Innovation & Entrepreneurship	12	3
	Major Option	12	
	Elective	12	
	Elective	12	
<b>Year 3, Semester 1</b>			
HRB129	Operations & Production Management	12	3
	Major Option	12	
	Elective	12	
	Elective	12	

\* Students must complete either EPB140 Macroeconomics and EPB150 Microeconomics or EPB116 Economic Principles and EPB106 Australian Economic History

**Year 3, Semester 2**

HRB125	Management Policy & Strategy	12	3
	Elective	12	
	Elective	12	
	Elective	12	

**Part-Time Course Structure**

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

**Year 1, Semester 1**

BSB102	Management & Organisation	12	3
EPB116	Economic Principles*	12	3
	OR		
EPB140	Macroeconomics*	12	3

**Year 1, Semester 2**

HRB130	Organisational Behaviour	12	3
HRB131	Personnel Management & Industrial Relations	12	3

**Year 2, Semester 1**

EPB124	Government	12	3
FNB102	Business Computing	12	3/4

**Year 2, Semester 2**

AYB100	Accounting for Managers	12	3
EPB150	Microeconomics*	12	3
	OR		
EPB106	Australian Economic History*	12	3

**Year 3, Semester 1**

HRB126	Management Processes	12	3
HRB127	Management Theory & Issues	12	3

**Year 3, Semester 2**

	Major Option	12	
	Elective	12	

**Year 4, Semester 1**

HRB129	Operations & Production Management	12	3
	Elective	12	

**Year 4, Semester 2**

HRB116	Innovation & Entrepreneurship	12	3
	Elective	12	

**Year 5, Semester 1**

	Major Option	12	
	Elective	12	

**Year 5, Semester 2**

	Elective	12	
	Elective	12	

**Year 6, Semester 1**

	Major Option	12	
	Elective	12	

\* Students must complete either EPB140 Macroeconomics and EPB150 Microeconomics or EPB116 Economic Principles and EPB106 Australian Economic History

**Year 6, Semester 2**

HRB125	Management Policy & Strategy	12	3
	Elective	12	

**MAJOR AND EXTENDED MAJOR OPTIONS**

Extended majors are any four subjects from the list of options not already completed in the major.

COB102	Consulting for Organisational Change	12	3
EPB109	Business Methodology	12	3
FNB111	Finance 1	12	4
HRB105	Human Resources & the Organisation	12	3
HRB106	Independent Study in Management	12	3
HRB114	Industrial Relations Institutions	12	3
HRB118	International Management	12	3
HRB133	Public Sector Management	12	3
HRB135	Small Business Management	12	3
HRB140	Management & Technology	12	3
HRX108	Sports Administration	12	3
MKB141	Marketing Management	12	3

**□ Marketing Major (MKG)**

**Location:** School of Marketing, Advertising and Public Relations, Gardens Point and Kedron Park campuses

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

**Total Credit Points:** 288

**Standard Credit Points/Full-Time Semester:** 48

**Coordinator:** Mr Terry Euler

**Professional Recognition**

Students of the marketing degree may meet the requirements of membership of a number of professional bodies. These could include the Australian Marketing Institute, the Marketing Research Society of Australia, the Australian Institute of Management and the American Marketing Association. Details of such membership may be obtained through the School of Marketing, Advertising and Public Relations.

Full-Time Course Structure		Credit Points	Contact Hrs/Wk
<b>Year 1, Semester 1</b>			
COP115	Professional Communication	12	3
EPB116	Economic Principles	12	3
FNB102	Business Computing	12	3/4
MKB140	Principles of Marketing	12	3
<b>Year 1, Semester 2</b>			
AYB100	Accounting for Managers	12	3
	OR		
AYB110	Accounting	12	4
BSB102	Management & Organisation	12	3
	OR		
EPB124	Government	12	3
EPB109	Business Methodology	12	3
MKB142	Consumer Behaviour	12	3

**Year 2, Semester 1**

ALB110	Business Law	12	3
MKB141	Marketing Management	12	3
	Elective	12	
	Elective	12	

**Year 2, Semester 2**

MKB108	Market Practices	12	3
	OR		
MKB148	Marketing Decision Making	12	3
MKB136	Marketing Logistics	12	3
	OR		
MKB146	Services Marketing	12	3
	Elective	12	
	Elective	12	

**Year 3, Semester 1**

HRB129	Operations & Production Management	12	3
MKB151	Marketing Research	12	3
	Elective	12	
	Elective	12	

**Year 3, Semester 2**

FNB111	Finance 1	12	4
MKB155	Strategic Marketing	12	3
	Elective	12	
	Elective	12	

**Part-Time Course Structure**

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

**Year 1, Semester 1**

EPB116	Economic Principles	12	3
MKB140	Principles of Marketing	12	3

**Year 1, Semester 2**

COP115	Professional Communication	12	3
FNB102	Business Computing	12	3/4

**Year 2, Semester 1**

AYB100	Accounting for Managers	12	3
	OR		
AYB110	Accounting	12	4
MKB142	Consumer Behaviour	12	3

**Year 2, Semester 2**

EPB109	Business Methodology	12	3
BSB102	Management & Organisation	12	3
	OR		
EPB124	Government	12	3

**Year 3, Semester 1**

MKB141	Marketing Management	12	3
	Elective	12	

**Year 3, Semester 2**

MKB136	Marketing Logistics	12	3
	OR		
MKB146	Services Marketing	12	3
	Elective	12	



**Year 4, Semester 1**

ALB110	Business Law	12	3
	Elective	12	

**Year 4, Semester 2**

MKB108	Market Practices	12	3
	OR		
MKB148	Marketing Decision Making	12	3
	Elective	12	

**Year 5, Semester 1**

MKB151	Marketing Research	12	3
	Elective	12	

**Year 5, Semester 2**

FNB111	Finance 1	12	4
	Elective	12	

**Year 6, Semester 1**

HRB129	Operations & Production Management	12	3
	Elective	12	

**Year 6, Semester 2**

MKB155	Strategic Marketing	12	3
	Elective	12	

**□ Organisational Communication Major (ORC)**

**Location:** School of Communication and Organisational Studies, Gardens Point campus

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

**Total Credit Points:** 288

**Standard Credit Points/Full-Time Semester:** 48

**Coordinator:** Ms Ros Petelin

**Professional Recognition**

Graduates may become members of the Society of Business Communicators and other similar professional organisations.

**Full-Time Course Structure**

		<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
<b>Year 1, Semester 1</b>			
COB110	Organisation & Society	12	3
COB113	Theoretical Perspectives on Communication	12	3
COB138	Written Communication: Theory & Practice	12	3
FNB102	Business Computing	12	3/4
<b>Year 1, Semester 2</b>			
BSB102	Management & Organisation	12	3
COB134	Speech Communication: Theory & Practice	12	3
EPB124	Government	12	3
MJB120	Newsriting	12	3

**Year 2, Semester 1**

COB106	Group Communication: Theory & Practice	12	3
COB159	Research Concepts & Techniques	12	3
	Elective/Minor/Major 2	12	
	Elective/Minor/Major 2	12	

**Year 2, Semester 2**

COB112	Organisational Communication	12	3
COB157	Corporate Writing & Editing	12	3
	Elective/Minor/Major 2	12	
	Elective/Minor/Major 2	12	

**Year 3, Semester 1**

COB102	Consulting for Organisational Change	12	3
COB158	Advanced Speech Communication (Theory & Practice)	12	3
	Elective/Minor/Major 2	12	
	Elective/Minor/Major 2	12	

**Year 3, Semester 2**

COB100	Communication Management	12	3
COB101	Computer Mediated Communication	12	3
	Elective/Minor/Major 2	12	
	Elective/Minor/Major 2	12	

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

COB138	Written Communication: Theory & Practice	12	3
FNB102	Business Computing	12	3/4

**Year 1, Semester 2**

COB110	Organisation & Society	12	3
COB113	Theoretical Perspectives on Communication	12	3

**Year 2, Semester 1**

COB134	Speech Communication: Theory & Practice	12	3
EPB124	Government	12	3

**Year 2, Semester 2**

BSB102	Management & Organisation	12	3
MJB120	News writing	12	3

**Year 3, Semester 1**

	Elective/Minor/Major 2	12	
	Elective/Minor/Major 2	12	

**Year 3, Semester 2**

COB106	Group Communication: Theory & Practice	12	3
COB159	Research Concepts & Techniques	12	3

**Year 4, Semester 1**

COB112	Organisational Communication	12	3
	Elective/Minor/Major 2	12	

**Year 4, Semester 2**

COB102	Consulting for Organisational Change	12	3
COB158	Advanced Speech Communication: Theory & Practice	12	3

**Year 5, Semester 1**

COB157	Corporate Writing & Editing	12	3
	Elective/Minor/Major 2	12	

**Year 5, Semester 2**

Elective/Minor/Major 2	12
Elective/Minor/Major 2	12

**Year 6, Semester 1**

COB100	Communication Management	12	3
COB101	Computer Mediated Communication	12	3

**Year 6, Semester 2**

Elective/Minor/Major 2	12
Elective/Minor/Major 2	12

**□ Organisational Studies Major (ORS)**

**Location:** School of Communication and Organisational Studies, Kedron Park campus

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

**Total Credit Points:** 288

**Standard Credit Points/Full-Time Semester:** 48

**Coordinator:** Mr Bob Thompson

**Professional Recognition**

Graduates from this degree may become members of the Institute of Management Consulting, Australia, the Australian Institute of Training and Development and affiliate members of the Australian Institute of Management.

**Full-Time Course Structure**

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

**Year 1, Semester 1**

COB110	Organisation & Society	12	3
COB138	Written Communication: Theory & Practice	12	3
EPB116	Economic Principles	12	3
EPB124	Government	12	3

**Year 1, Semester 2**

BSB102	Management & Organisation	12	3
COB105	Ethics	12	3
COB134	Speech Communication: Theory & Practice	12	3
COB159	Research Concepts & Techniques	12	3

**Year 2, Semester 1**

COB129	Organisational Processes	12	3
HRB104	Foundation HR Competencies	12	3
	Elective/minor/major 2	12	
	Elective/minor/major 2	12	

**Year 2, Semester 2**

COB108	Inter-organisational Relations	12	3
COB112	Organisational Communication	12	3
	Elective/minor/major 2	12	
	Elective/minor/major 2	12	

**Year 3, Semester 1**

COB102	Consulting for Organisational Change	12	3
COB114	Trends in Organisational Design	12	3

	Elective/minor/major 2	12	
	Elective/minor/major 2	12	
<b>Year 3, Semester 2</b>			
COB103	Critical Perspectives on Organisations & Environment	12	3
COB111	Organisational Change: Applications	12	3
	Elective/minor/major 2	12	
	Elective/minor/major 2	12	
<b>Part-Time Course Structure</b>		<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
<b>Year 1, Semester 1</b>			
COB110	Organisation & Society	12	3
EPB124	Government	12	3
<b>Year 1, Semester 2</b>			
BSB102	Management & Organisation	12	3
COB105	Ethics	12	3
<b>Year 2, Semester 1</b>			
COB129	Organisational Processes	12	3
COB134	Speech Communication: Theory & Practice	12	3
<b>Year 2, Semester 2</b>			
COB138	Written Communication: Theory & Practice	12	3
COB159	Research Concepts & Techniques	12	3
<b>Year 3, Semester 1</b>			
EPB116	Economic Principles	12	3
HRB104	Foundation HR Competencies	12	3
<b>Year 3, Semester 2</b>			
COB108	Inter-organisational Relations	12	3
	Elective/minor/major 2	12	
<b>Year 4, Semester 1</b>			
COB112	Organisational Communication	12	3
	Elective/minor/major 2	12	
<b>Year 4, Semester 2</b>			
COB102	Consulting for Organisational Change	12	3
COB114	Trends in Organisational Design	12	3
<b>Year 5, Semester 1</b>			
	Elective/minor/major 2	12	
	Elective/minor/major 2		
<b>Year 5, Semester 2</b>			
	Elective/minor/major 2	12	
	Elective/minor/major 2	12	
<b>Year 6, Semester 1</b>			
COB103	Critical Perspectives on Organisations & Environment	12	3
	Elective/minor/major 2	12	
<b>Year 6, Semester 2</b>			
COB111	Organisational Change: Applications	12	3
	Elective/minor/major 2	12	

## ☐ Public Administration Major (PUA)

**Location:** School of Economics and Public Policy, Gardens Point campus

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

**Total Credit Points:** 288

**Coordinator:** Dr Mike Quayle

**Standard Credit Points/Full-Time Semester:** 48

### Professional Recognition

This degree satisfies the academic requirements for membership of the Royal Institute of Public Administration, the Institute of Municipal Management and, subject to the choice of suitable electives, the Institute of Personnel Management, Australia.

Full-Time Course Structure		Credit Points	Contact Hrs/Wk
<b>Year 1, Semester 1</b>			
BSB102	Management & Organisation	12	3
EPB112	Critical Analysis	12	3
EPB124	Government	12	3
EPB140	Macroeconomics	12	3
<b>Year 1, Semester 2</b>			
EPB100	Administrative Theory	12	3
EPB150	Microeconomics	12	3
EPB154	National Government	12	3
FNB102	Business Computing	12	3/4
<b>Year 2, Semester 1</b>			
EPB135	Local Government	12	3
EPB163	Research & Survey Methods	12	3
EPB167	State Government	12	3
	Elective	12	
<b>Year 2, Semester 2</b>			
AYB110	Accounting	12	4
	OR		
AYB100	Accounting for Managers	12	3
EPB157	Public Enterprise	12	3
EPB162	Reform & the Public Sector	12	3
	OR		
EPB109	Business Methodology	12	3
	Elective	12	
<b>Year 3, Semester 1</b>			
ALB108	Public Administrative Law	12	3
EPB125	Government & Business	12	3
EPB159	Public Policy	12	3
	Elective	12	
<b>Year 3, Semester 2</b>			
EPB131	International Politics & Business	12	3
	OR		
EPB109	Business Methodology	12	3
EPB155	Policy & Program Evaluation	12	3

EPB156	Political & Administrative Analysis	12	3
	OR		
EPB109	Business Methodology	12	3
	Elective	12	
<b>Part-Time Course Structure</b>		<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
<b>Year 1, Semester 1</b>			
EPB124	Government	12	3
EPB140	Macroeconomics	12	3
<b>Year 1, Semester 2</b>			
EPB150	Microeconomics	12	3
EPB154	National Government	12	3
<b>Year 2, Semester 1</b>			
BSB102	Management & Organisation	12	3
EPB167	State Government	12	3
<b>Year 2, Semester 2</b>			
EPB157	Public Enterprise	12	3
FNB102	Business Computing	12	3/4
<b>Year 3, Semester 1</b>			
EPB112	Critical Analysis	12	3
EPB135	Local Government	12	3
<b>Year 3, Semester 2</b>			
EPB100	Administrative Theory	12	3
EPB162	Reform & the Public Sector	12	3
<b>Year 4, Semester 1</b>			
ALB108	Public Administrative Law	12	3
EPB163	Research & Survey Methods	12	3
<b>Year 4, Semester 2</b>			
AYB110	Accounting	12	4
	OR		
AYB100	Accounting for Managers	12	3
EPB109	Business Methodology	12	3
	OR		
EPB156	Political & Administrative Analysis	12	3
<b>Year 5, Semester 1</b>			
EPB159	Public Policy	12	3
	Elective	12	
<b>Year 5, Semester 2</b>			
EPB155	Policy & Program Evaluation	12	3
	Elective	12	
<b>Year 6, Semester 1</b>			
EPB125	Government & Business	12	3
	Elective	12	
<b>Year 6, Semester 2</b>			
EPB131	International Politics & Business	12	3
	OR		
EPB109	Business Methodology	12	3
	Elective	12	

## LOCAL GOVERNMENT ADMINISTRATION SECONDARY MAJOR

For students wishing to obtain the Queensland Local Government Clerks Certificate.

ALB110	Business Law	12	3
ALB111	Commercial & Securities Law	12	3
AYB103	Government Accounting	12	3
AYB111	Financial Accounting	12	4
EPB125	Government & Business	12	3
EPB136	Local Government Administrative Practice 1	12	3
EPB137	Local Government Administrative Practice 2	12	3
EPB162	Reform & the Public Sector	12	3

### ☐ Public Relations Major (PUR)

**Location:** School of Marketing, Advertising and Public Relations, Gardens Point campus

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

**Total Credit Points:** 288

**Standard Credit Points/Full-Time Semester:** 48

**Coordinator:** Mr Terry Euler

#### Professional Recognition

Students of the Public Relations degree may, as a result of their choice of area of major study or elective study, meet the requirements of membership of a number of professional bodies. These could include the Public Relations Institute of Australia, the Society of Business Communicators as well as associated and international bodies.

Details of such memberships can be obtained through the School of Marketing, Advertising and Public Relations.

Full-Time Course Structure		Credit Points	Contact Hrs/Wk
<b>Year 1, Semester 1</b>			
COB113	Theoretical Perspectives on Communication	12	3
COB138	Written Communication: Theory & Practice	12	3
FNB102	Business Computing	12	3/4
MJB120	News writing	12	3
<b>Year 1, Semester 2</b>			
COB134	Speech Communication: Theory & Practice	12	3
EPB116	Economic Principles	12	3
MKB124	Public Relations Principles	12	3
MKB140	Principles of Marketing	12	3
<b>Year 2, Semester 1</b>			
COB106	Group Communication: Theory & Practice OR	12	3
MJB104	Media Industries & Issues	12	3
MKB112	Research Methods	12	3
MJB126	Video Production	12	3
MKB129	Publicity & Promotion - Print	12	3
<b>Year 2, Semester 2</b>			
MKB123	Publication Management	12	3
MKB130	Publicity & Promotion - Electronic	12	3

MKB142	Consumer Behaviour Elective	12 12	3
<b>Year 3, Semester 1</b>			
MKB120	Public Relations Writing & Editing	12	3
EPB124	Government	12	3
MKB133	Public Relations Consulting & Management Elective	12 12	3
<b>Year 3, Semester 2</b>			
MKB117	Public Relations Campaigns	12	3
MKB132	Government & Financial Relations Elective Elective	12 12 12	3
<b>Part-Time Course Structure</b>		<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
<b>Year 1, Semester 1</b>			
COB138	Written Communication: Theory & Practice	12	3
FNB102	Business Computing	12	3/4
<b>Year 1, Semester 2</b>			
COB113	Theoretical Perspectives on Communication	12	3
MJB120	Newswriting	12	3
<b>Year 2, Semester 1</b>			
COB134	Speech Communication: Theory & Practice	12	3
MKB124	Public Relations Principles	12	3
<b>Year 2, Semester 2</b>			
MJB126	Video Production	12	3
MKB129	Publicity & Promotion - Print	12	3
<b>Year 3, Semester 1</b>			
MKB130	Publicity & Promotion - Electronic	12	3
MKB140	Principles of Marketing	12	3
<b>Year 3, Semester 2</b>			
COB106	Group Communication: Theory & Practice OR	12	3
MJB104	Media Industries & Issues	12	3
MKB142	Consumer Behaviour	12	3
<b>Year 4, Semester 1</b>			
EPB116	Economic Principles	12	3
MKB123	Publication Management	12	3
<b>Year 4, Semester 2</b>			
EPB124	Government	12	3
MKB120	Public Relations Writing & Editing	12	3
<b>Year 5, Semester 1</b>			
MKB112	Research Methods	12	3
MKB132	Government & Financial Relations	12	3
<b>Year 5, Semester 2</b>			
MKB133	Public Relations Consulting & Management Elective	12 12	3



**Year 6, Semester 1**

MKB117	Public Relations Campaigns	12	3
	Elective	12	

**Year 6, Semester 2**

Elective	12
Elective	12

**SECONDARY MAJORS****Credit  
Points****Contact  
Hrs/Wk****ADVERTISING SECONDARY MAJOR**

MKB116	Principles of Advertising	12	3
MKB118	Advertising Copywriting	12	3
MKB122	Advertising Regulation & Ethics	12	3
MKB125	Media Planning	12	3
MKB126	Advertising Management	12	3
MKB128	Direct Response Advertising	12	3
MKB131	Advertising Campaigns	12	3
MKB142	Consumer Behaviour	12	3

**BUSINESS LAW AND TAXATION SECONDARY MAJOR**

(For students other than Bachelor of Business (Accountancy)).

Subject to prerequisite requirements eight subjects selected from the following:

ALB100	Administrative Law	12	3
ALB103	Financial Institutions Law	12	3
ALB110	Business Law	12	3
ALB111	Commercial & Securities Law	12	3
ALB120	Company Law & Practice	12	3
ALB121	Insolvency Law & Practice	12	3
ALB122	Law of Business Associations	12	3
ALB131	Tax Planning	12	3
ALB132	Taxation Law	12	3
ALB133	Taxation of Business Entities	12	3
ALN105	Indirect Taxation	12	3

**COMMUNICATION TECHNOLOGY SECONDARY MAJOR**

(Bachelor of Education secondary major)

COB118	Communication Technology in Organisations	12	3
COB119	Text Formatting & Transcription	12	3
COB120	Business Communication	12	3
COB121	Records Management	12	3
COB122	Office Procedures	12	3
COB123	Issues in Communication Technology	12	3
COB126	Supervision & Administration	12	3
COB128	Supervised Project	12	3

**COMPUTER APPLICATIONS SECONDARY MAJOR**

ALB122	Law of Business Associations	12	3
ALB132	Taxation Law	12	3
AYB101	Computerised Accounting Systems	12	3
FNB112	Finance 2	12	4
	Secondary Major Option	12	
	Secondary Major Option	12	
	Secondary Major Option	12	
	Secondary Major Option	12	

**COMPUTER APPLICATIONS SECONDARY MAJOR OPTIONS**

AYB212	Computer Security & Audit	12	3
FNB104	Computer Applications in Finance	12	4
FNB105	Computer Applications in Managerial Accounting	12	4

FNB106	Computer Applications in Public Practice	12	4
FNB117	Financial Modelling	12	4

#### **ECONOMICS SECONDARY MAJOR** (For Non Faculty of Business Students.)

EPB106	Australian Economic History OR	12	3
EPB111	Comparative Economic Systems	12	3
EPB114	Economic Development	12	3
EPB132	International Trade & Finance	12	3
EPB140	Macroeconomics	12	3
EPB142	Macroeconomic Theory	12	3
EPB150	Microeconomics	12	3
EPB152	Microeconomic Theory	12	3
EPB163	Research & Survey Methods	12	3

#### **ECONOMICS SECONDARY MAJOR** (For Faculty of Business students only.)

EPB106	Australian Economic History	12	3
EPB141	Macroeconomic Policy	12	3
EPB142	Macroeconomic Theory	12	3
EPB151	Microeconomic Policy	12	3
EPB152	Microeconomic Theory	12	3
	Elective	12	
	Elective	12	
	Elective	12	

#### **FILM AND TELEVISION PRODUCTION SECONDARY MAJOR**

MJB108	Creative Sound & Image	12	3
MJB113	Film Drama Production	12	3
MJB118	Fundamentals of Photography	12	3
MJB126	Video Production	12	3
MJB127	Narrative Concepts	12	3
MJB129	Film & Television Scriptwriting	12	3
MJB131	Television Studio/Post Production	12	3
MJB134	Video Documentary Production	12	3

#### **FINANCE SECONDARY MAJOR**

ALB122	Law of Business Associations	12	3
ALB132	Taxation Law	12	3
AYB101	Computerised Accounting Systems	12	3
FNB112	Finance 2	12	4
	Secondary Major Option	12	
	Secondary Major Option	12	
	Secondary Major Option	12	
	Secondary Major Option	12	

#### **FINANCE SECONDARY MAJOR OPTIONS**

FNB113	Finance 3	12	4
FNB117	Financial Modelling	12	4
FNB120	International Finance	12	4
FNB121	Issues in Finance	12	4
FNB126	Portfolio & Security Analysis	12	4

#### **HUMAN RESOURCE MANAGEMENT SECONDARY MAJOR**

HRB103	Employment Regulation & Administration	12	3
HRB105	Human Resources & the Organisation	12	3
HRB130	Organisational Behaviour	12	3
HRB131	Personnel Management & Industrial Relations	12	3
HRB136	Strategic HRN	12	3
	Secondary Major Option	12	
	Secondary Major Option	12	
	Secondary Major Option	12	

**HUMAN RESOURCE MANAGEMENT SECONDARY MAJOR OPTIONS**

COB102	Consulting for Organisational Change	12	3
HRB100	Advanced Organisational Behaviour	12	3
HRB101	Advanced Training & Development	12	3
HRB102	Advocacy & Negotiation	12	3
HRB104	Foundation HRM Competencies	12	3
HRB107	Independent Study - HRD OR	12	3
HRB108	Independent Study - HRM	12	3
HRB114	Industrial Relations Institutions	12	3
HRB119	Interviewing & Counselling	12	3
HRB120	Introductory Training & Development	12	3
HRB128	Occupational Health & Safety Management	12	3
HRB134	Recruitment & Selection	12	3
HRB144	Public Sector Industrial Relations	12	3
HRB402	Public Personnel Management	12	3
HRB146	Special Topic - HRM	12	3

**INDUSTRIAL RELATIONS SECONDARY MAJOR**

BSB102	Management & Organisation	12	3
HRB131	Personnel Management & Industrial Relations	12	3
HRX102	Industrial Relations Institutions	12	3
	Secondary Major Option	12	
	Secondary Major Option	12	
	Secondary Major Option	12	
	Secondary Major Option	12	
	Secondary Major Option	12	

**INDUSTRIAL RELATIONS SECONDARY MAJOR OPTIONS**

ALP102	Industrial Law	12	3
HRB102	Advocacy & Negotiation	12	3
HRB103	Employment Regulation & Administration	12	3
HRB105	Human Resources & the Organisation	12	3
HRB109	Industrial Democracy	12	3
HRB113	Industrial Relations History	12	3
HRB115	Industrial Relations Policies	12	3
HRB137	Wages & Employment	12	3
HRB138	Work & Society	12	3
HRB144	Public Sector Industrial Relations	12	3
HRP100	Comparative Industrial Relations	12	3

**JOURNALISM SECONDARY MAJOR**

MJB120	News writing	12	3
MJB121	Reporting Principles	12	3
MJB122	Sub-editing & Layout	12	3
MJB124	Feature Writing	12	3
MJB132	Radio/Television Journalism I	12	3
MJB137	Public Affairs Reporting	12	3
MJB138	Radio/Television Journalism 2	12	3
MJB139	Journalistic Ethics & Issues	12	3

**MANAGEMENT SECONDARY MAJOR**

BSB102	Management & Organisation*	12	3
HRB126	Management Processes	12	3
HRB127	Management Theory & Issues	12	3
HRB131	Personnel Management & Industrial Relations	12	3
	Secondary Major Option	12	
	Secondary Major Option	12	
	Secondary Major Option	12	
	Secondary Major Option	12	

\* An additional secondary major option must be substituted if this subject has already been completed.

**MANAGEMENT SECONDARY MAJOR OPTIONS**

COB102	Consulting for Organisational Change	12	3
FNB111	Finance 1	12	4
HRB105	Human Resources & the Organisation	12	3
HRB106	Independent Study in Management	12	3
HRB114	Industrial Relations Institutions	12	3
HRB118	International Management	12	3
HRB133	Public Sector Management	12	3
HRB135	Small Business Management	12	3
HRB140	Management & Technology	12	3
HRX108	Sports Administration	12	3
MKB141	Marketing Management	12	3

**MARKETING SECONDARY MAJOR**

MKB140	Principles of Marketing	12	3
MKB141	Marketing Management	12	3
MKB142	Consumer Behaviour	12	3
	Secondary Major Option	12	
	Secondary Major Option	12	
	Secondary Major Option	12	
	Secondary Major Option	12	
	Secondary Major Option	12	

**MARKETING SECONDARY MAJOR OPTIONS**

MKB136	Marketing Logistics	12	3
MKB144	Sales Management	12	3
MKB145	Retailing Management 1	12	3
MKB146	Services Marketing	12	3
MKB148	Marketing Decision Making	12	3
MKB149	International Marketing	12	3
MKB152	Promotional Strategy	12	3
MKB155	Strategic Marketing	12	3

**MEDIA STUDIES SECONDARY MAJOR****(Bachelor of Education secondary major)**

MJB100	Media Production	12	3
MJB105	Film & Society	12	3
MJB109	Australian Television	12	3
MJB126	Video Production	12	3
MJB130	Media Text Analysis	12	3
MJB140	The Media & Society	12	3
MJB141	Film Language	12	3
MJB143	Australian Film	12	3

**MEDIA STUDIES SECONDARY MAJOR****(Bachelor of Arts secondary major)**

MJB105	Film & Society	12	3
MJB109	Australian Television	12	3
MJB130	Media Text Analysis	12	3
MJB140	The Media & Society	12	3
MJB141	Film Language	12	3
MJB143	Australian Film	12	3
	Secondary Major Option	12	
	Secondary Major Option	12	

**MEDIA STUDIES SECONDARY MAJOR OPTIONS**

MJB100	Media Production	12	3
MJB106	Screen Adaptation	12	3
MJB107	Gender & the Media	12	3
MJB110	Asian & Latin American Cinema	12	3
MJB126	Video Production	12	3
MJB144	European Cinema	12	3

MJB146	Australian Documentary Film	12	3
MJB147	Film Genres	12	3
MJB149	Film History	12	3

#### ORGANISATIONAL COMMUNICATION SECONDARY MAJOR

BSB102	Management & Organisation	12	3
COB101	Computer Mediated Communication	12	3
COB106	Group Communications: Theory & Practice	12	3
COB112	Organisational Communication	12	3
COB157	Corporate Writing & Editing	12	3
COB158	Advanced Speech Communication: Theory & Practice	12	3
COP106	Communication Theory 1	12	3

#### PUBLIC RELATIONS SECONDARY MAJOR

MJB120	Newswriting	12	3
MKB117	Public Relations Campaigns	12	3
MKB120	Public Relations Writing & Editing	12	3
MKB123	Publication Management	12	3
MKB124	Public Relations Principles	12	3
MKB129	Publicity & Promotion - Print	12	3
MKB130	Publicity & Promotion - Electronic	12	3
MKB133	Public Relations Consulting & Management	12	3

### ■ Associate Diploma in Business (Industrial Relations) (BS10)

**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:** Dr Don Lambert

Course Structure		Credit Points	Contact Hrs/Wk
<b>Year 1, Semester 1</b>			
HRX100	Australian Development	12	3
HRX103	Industrial Relations Skills 1	12	3
<b>Year 1, Semester 2</b>			
ALX102	The Legal Process	12	3
HRX107	Sociology of Work	12	3
<b>Year 2, Semester 1</b>			
ALX100	Australian Employment Law	12	3
HRX102	Industrial Relations Institutions	12	3
<b>Year 2, Semester 2</b>			
EPX104	Research Methods	12	3
HRX104	Industrial Relations Skills 2	12	3
<b>Year 3, Semester 1</b>			
COX100	Introduction to Organisation	12	3
EPX100	Elements of Labour Economics	12	3

\* It is unlikely that the external mode will be offered. Intending candidates for external study should contact the Faculty of Business for further information.

**Year 3, Semester 2**

EPX102	Macroeconomic Analysis	12	3
HRX101	Industrial Relations & Management	12	3

**Year 4, Semester 1**

HRX105	Industrial Relations Skills 3	12	3
HRX110	Workplace Issues	12	3

**Year 4, Semester 2**

ALX101	Australian Industrial Law	12	3
HRX106	Industrial Relations Skills 4	12	3

# FACULTY OF EDUCATION

EDUCATION

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# FACULTY OF EDUCATION

## Course Structures

### ■ Master of Education (Research) (ED12)

**Location:** Carseldine and Kelvin Grove campuses

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

**Total Credit Points:** 96

**Standard Credit Points/Full-Time Semester:** 48

**Course Coordinator:** Dr Sue Johnston

#### Entry Requirements

A person may enrol as a candidate for the degree of Master of Education by research if that person holds:

- (i) an honours degree; or
- (ii) a grade point average of 5 or better in a graduate diploma with demonstrated potential for further study and/or evidence of professional standing; or
- (iii) a grade point average of 5 or better in a coursework master degree program with demonstrated potential for further study and/or evidence of professional standing.

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 (Research) 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.

- (i) A candidate so admitted shall be required to complete any designated qualifying subjects at credit level or better.
- (ii) 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.
- (iii) 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 Course Coordinator. The maximum period of extension of provisional candidature shall be one year.
- (iv) 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.
- (v) 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

- (i) Before submitting an application for enrolment, a potential candidate shall consult the Coordinator of the Master of Education (Research) concerning eligibility and special interests.
- (ii) A person seeking admission to the Master of Education (Research) shall apply on the appropriate forms through Student Administration. 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 Student Administration, an application will be forwarded for consideration by the Course Coordinator who may require the applicant to attend an interview.
- (iii) The Course Coordinator will forward recommendations on applications to the Dean for approval before forwarding official advice to all applicants on the outcome of their applications through Student Administration.

## Course of Study

### LENGTH

Candidates for the degree of Master of Education (Research) will normally be required to complete their course in one year 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 two years of study. Full-time students will be normally permitted to spend no more than two years to complete the course and part-time students will be allowed to spend a maximum of four years.

### CREDIT POINTS

A candidate for the Master of Education (Research) award will obtain a total of 96 credit points from research studies.

Studies in the course of the award will consist of four stages of detailed research investigations.

## Special Course Requirements

As a student proceeds through the four stages of the course he/she 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

### 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.

**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.

**STAGE 3: IMPLEMENTATION**

Implementation of the research for the thesis; completion of the literature review; provision of a progress report.

**STAGE 4: SUBMISSION**

Completion and presentation of a thesis or alternative to the supervisory team for approval; production of the thesis in a suitable form for examination.

**TRANSFER OF CREDIT**

- (i) On the recommendation of the Course Coordinator, the Dean may grant credit for studies passed at an approved institution of higher education, provided that:
  - (a) the studies are of equivalent standard and value to those offered at the University;
  - (b) the studies are appropriate to the candidate's work at the University;
  - (c) the studies have not counted towards a previous qualification;
  - (d) the studies are not included in those that have been designated as qualifying studies for the course.
- (ii) There shall be no maximum credit granted for subjects previously completed at this institution prior to enrolment in the Master of Education (Research) award.
- (iii) The maximum credit granted for studies passed elsewhere shall be the equivalent to one semester of full-time study.
- (iv) Credit may be granted for subjects passed elsewhere after enrolment in the Master of Education (Research) award, provided that the candidate has previously obtained the permission of the Dean to enrol in these subjects.
- (v) Where credit is granted the Dean may reduce proportionately the candidate's period of enrolment.
- (iv) 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 (Research) award consists of the supervision of a thesis. The thesis 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 Student Administration.

**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 to 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 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 semester of the candidature the academic progress of each candidate shall be reviewed by the Course Coordinator. Satisfactory progress for provisional candidates will consist of passing of qualifying requirements or course subjects at the appropriate levels. For students enrolled in research studies, satisfactory progress will be judged by the submission of a report to the Course Coordinator. Progress reports will be submitted at designated intervals, normally at least twice each year.

#### **UNSATISFACTORY PROGRESS**

- (i) 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.
- (ii) 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.
- (iii) 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**

- (i) A candidate should submit a minimum of three copies of a thesis to the 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.
- (ii) The thesis should be accompanied by a signed declaration that:
  - (a) the candidate has complied with the ethics of experimentation as set out in the publication *Guide to Thesis Presentation*;

- (b) the thesis is the candidate's own work and that all other sources are correctly acknowledged;
- (c) the thesis has not been submitted to another institution.

#### EXAMINATION OF THESIS

- (i) Each thesis will be examined by at least two examiners appointed by the Dean on the recommendation of the 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.
- (ii) 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 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.
- (iii) 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.
- (iv) 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 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:
  - (a) Pass – implying that the thesis will be fully satisfactory except possibly for minor editorial changes;
  - (b) 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;
  - (c) Fail – implying that the thesis is not of an acceptable standard.
- (v) In the case of (a) and (b) 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 Course Coordinator.
- (vi) The Course Coordinator will forward the set of examiner's assessment forms (together with the additional signed judgments 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.
- (vii) If a recommendation of type (a) is accepted, the Dean will ask the 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 Course Coordinator that all required changes have been completed satisfactorily.

- (viii) If a recommendation of type (b) is accepted, the Dean will ask the Course Coordinator to ensure that the candidate is requested to submit the thesis with any necessary corrections or modifications and that the revised thesis is forwarded to the examiner for assessment.
- (ix) If the Dean accepts a recommendation of type (c) 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.

## ■ Master of Education (ED13)

**Location:** Kelvin Grove and Carseldine campuses

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

**Total Credit Points:** 96

**Standard Credit Points/Full-Time Semester:** 48

**Course Coordinator:** Dr Keith Lucas

### Entry Requirements

Candidates will be admitted to the course who:

- ☐ hold an appropriate four-year bachelor degree or equivalent at a standard acceptable to the Dean of the Faculty; or
- ☐ hold other qualifications acceptable to the Dean which may include substantial work experience or involvement in relevant research activities; and
- ☐ have had at least one year's practical experience in some branch of education acceptable to the Dean; and
- ☐ have a command of English.

Students who do not meet the entry requirements may be admitted on a provisional basis and be required to undertake preliminary coursework and reading as determined by the Specialisation Coordinator. After satisfactory completion of the preliminary studies students will be admitted to full candidature.

### Provisional Enrolment

In special circumstances and with the specific approval of the Dean, a person may be admitted to the Master of Education course on a provisional basis to complete qualifying subjects. The conditions which must be satisfied to meet the qualifying requirement must be detailed in writing by the Specialisation Coordinator and endorsed by the Higher Degrees Advisory Committee for the Dean's approval.

- (i) A candidate so admitted shall be required to complete any designated qualifying subjects at credit level (grade of 5) or better.
- (ii) A candidate who completes course subjects at a satisfactory level during the period of provisional enrolment may be permitted to count these subjects towards the degree.

- (iii) Unless the Higher Degrees Advisory Committee 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 submission of a positive recommendation by the relevant Specialisation Coordinator for approval by the Higher Degrees Advisory Committee. The maximum period of extension of provisional candidature shall be one year.
- (iv) 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 shall have their candidature terminated or be required to show cause to the Higher Degrees Advisory Committee through the Specialisation Coordinator as to why their candidature should not be terminated.
- (v) A candidate whose provisional candidature is terminated may, after a period of two years, be permitted to apply for re-enrolment as a provisional candidate.

### **Procedure for Enrolment**

- (i) Before submitting an application for enrolment, a potential candidate shall consult the Coordinator of the relevant Specialisation of the Master of Education course concerning eligibility and special interests.
- (ii) A person seeking admission to the Master of Education course shall apply on the appropriate forms through Student Administration. 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 specialisations. A person relying on qualifications from another institution of higher education shall furnish with their application evidence of such qualifications. After acknowledgement and recording of basic information by Student Administration, an application will be forwarded for consideration by the Specialisation Coordinator who may require the applicant to attend an interview.
- (iii) Specialisation Coordinators will forward recommendations on applications to the Dean for approval before forwarding official advice to all applicants on the outcome of their applications through Student Administration.

### **Course of Study**

#### **LENGTH**

Candidates for the degree of Master of Education will normally be required to complete their course in a minimum of one year 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 two years of study. Full-time students normally will be permitted to spend no more than two years to complete the course and part-time students will be allowed to spend a maximum of four years.

#### **CREDIT POINTS**

- (i) A candidate for a Master of Education will obtain a total of 96 credit points from studies in coursework subjects and/or from research studies. The course will consist of core subjects and studies in a series of specialisations, e.g. Mathematics, Science, Early Childhood, Leadership, and Social and Environmental Education. Core studies will occupy 24 or 36 credit points and each specialisation will consist of studies totalling 60-72 credit points or their equivalent. Candidates will enrol to study in one of the designated specialisations. They will not normally be permitted to transfer from one specialisation to another.

- (ii) Studies in the specialisations of the course will consist of coursework subjects and research investigations. Research studies will constitute between 25% and not more than 50% of the work to be completed in the course.

<b>Course Structure</b>	<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
<b>Semester 1</b>		
<b>CORE SUBJECTS</b>		
EDN600 Research Methods in Education	12	3
EDN601 Major Issues in Education	12	3
<b>SPECIALISATION SUBJECTS</b>		
Two subjects taken from the specialisation area (refer to Specialisation Lists)	12	3
	12	3
<b>Semester 2</b>		
Option 1 EDN606 Dissertation	48	
OR		
Option 2 One Specialisation Subject	12	
EDN605 Dissertation	36	
OR		
Option 3 Two Specialisation Subjects	24	
EDN604 Dissertation	24	
OR		
Option 4 Three Specialisation Subjects	36	
One Independent Study	12	
OR		
Option 5 Independent Study	12	
EDN605 Dissertation	36	

### **List of Specialisation Subjects**

#### **EARLY CHILDHOOD EDUCATION**

EAN601	Early Childhood Curriculum: Design Issues
EAN602	Early Childhood Services & Policies
EAN603	Research Seminar in Early Childhood Issues
EAN604	Young Children, Families & Community

#### **LANGUAGE AND LITERACY EDUCATION**

LAN601	Foundations of English/Language Arts Education
LAN602	Literacy & Schooling

#### **LEADERSHIP**

CPN601	Emerging Leadership Approaches in Education
CPN602	Leaders as Agents of Change in Education

#### **MATHEMATICS/SCIENCE/COMPUTING EDUCATION**

MDN601	Curriculum Studies in Mathematics, Science & Computer Education
MDN602	Focus on the Mathematics, Science & Computer Education Classroom
MDN603	Curriculum Specialisation in Mathematics, Science & Computer Education
MDN604	Diagnosis & Assessment in Mathematics
MDN605	Resources & Technology in Mathematics & Science Education
MDN606	Policy Study in Mathematics & Science Education
MDN607	Issues in Science Education
MDN608	Computer Supported Learning Environments
MDN609	Emerging Educational Technologies
MDN610	The Computer as Instructional Medium

#### **SOCIAL AND ENVIRONMENTAL EDUCATION**

SBN601	Social & Environmental Education 1
SBN602	Social & Environmental Education 2



**INDIVIDUAL SUPERVISED SUBJECTS**

EDN602	Advanced Seminars
EDN603	Independent Study
EDN604	Dissertation (24 cps)
EDN605	Dissertation (36 cps)
EDN606	Dissertation (48 cps)

**TRANSFER OF CREDIT**

- (i) On the recommendation of the Specialisation Coordinator, the Higher Degrees Advisory Committee may grant credit for studies passed at an approved institution of higher education, provided that:
  - (a) the studies are of equivalent standard and value to those offered at the University;
  - (b) the studies are appropriate to the candidate's work at the University;
  - (c) the studies have not counted towards a previous qualification;
  - (d) the studies are not included in those that have been designated as qualifying studies for the course.
- (ii) There shall be no maximum to credit granted for subjects previously completed at this institution prior to enrolment in the Master of Education course.
- (iii) The maximum credit granted for studies passed elsewhere shall be the equivalent to half the full-time study program.
- (iv) Credit may be granted for subjects passed elsewhere after enrolment in the Master of Education course, provided that the candidate has previously obtained the permission of the Higher Degrees Advisory Committee to enrol in these subjects.
- (v) Students may be exempted from core subjects based on the successful completion of previous equivalent studies provided that the candidate has previously obtained the permission of the Higher Degrees Advisory Committee.
- (vi) Where credit is granted, the Higher Degrees Advisory Committee may reduce proportionately the candidate's period of enrolment.
- (vii) A candidate who is re-enrolling following withdrawal or termination of candidature may be granted credit by the Higher Degrees Advisory Committee for previously completed studies upon the recommendation of the Specialisation Coordinator.

**Supervision**

Supervision in the Master of Education course consists of two components:

- (i) the supervision of individualised coursework subjects; and
- (ii) the supervision of a thesis/dissertation/research project.

**SUPERVISION OF INDIVIDUALISED SUBJECTS**

Certain coursework subjects in particular specialisations involve individual candidates working with supervising lecturers on a one-to-one basis. Here, candidates 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 consists of a dialogue between candidate and lecturer to design an appropriate course of study for the particular subjects. Subsequently, they submit this plan of study to the Specialisation Coordinator for approval.

**SUPERVISION OF A THESIS**

Any course component representing 25% 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 Postgraduate Studies Officer.

**(i) Thesis/project**

- (a) 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.
- (b) Early planning must allow for the submission of an approved initial subject enrolment form to Student Administration by the published due date.
- (c) 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 Specialisation Coordinator (who shall retain copies) and be lodged along with the appropriate Ethical Clearance forms with the Higher Degrees Advisory Committee for endorsement.
- (d) 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.

**(ii) Supervision**

- (a) 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. Where appropriate in selected specialist areas, an Associate Supervisor, external to the Faculty or the University, may be appointed. An appointment will be made by the Higher Degrees Advisory Committee on the advice of the relevant Specialisation Coordinator.
- (b) 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.
- (c) Supervisors should be readily available to consult with candidates, should provide scholarly support and constructive criticism and should assist as appropriate with access to facilities, and any relevant external agencies.
- (d) The Higher Degrees Advisory Committee will not normally approve the appointment of any staff member as Thesis Supervisor to more than four candidates concurrently.
- (e) In special circumstances and with the specific approval of the Higher Degrees Advisory Committee, an external Supervisor may be appointed.

**Progression and Unsatisfactory Progress**

**PROGRESSION**

In each year of candidature the academic progress of each candidate shall be reviewed by the relevant Specialisation Coordinator. Satisfactory progress for provisional candidates will consist of passing of qualifying requirements or course subjects at appropriate exit levels. For candidates enrolled in the coursework degree, it will mean the successful completion of the relevant coursework subjects.

Progress reports will be submitted at designated intervals, normally at least twice each year, to the Higher Degrees Advisory Committee.

**UNSATISFACTORY PROGRESS**

- (i) With respect to coursework studies, candidates who have failed two or more subjects or who have otherwise progressed unsatisfactorily, may have their candidature terminated on the recommendation of the Higher Degrees Advisory Committee.

- (ii) With respect to the thesis project, progress which is considered clearly unsatisfactory by both the Supervisor and the Specialisation Coordinator may lead to a recommendation by them to the Higher Degrees Advisory Committee that the candidate be excluded from the course.
- (iii) Before the Higher Degrees Advisory Committee recommends 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

- (i) A candidate should submit a minimum of three copies of a thesis to the relevant Specialisation 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.
- (ii) The thesis should be accompanied by a signed declaration which states that:
  - (a) the candidate has complied with the ethics of experimentation as set out in the publication *Guide to Thesis Presentation*;
  - (b) the thesis is the candidate's own work and that all other sources are correctly acknowledged;
  - (c) the thesis has not been submitted to another institution.

#### EXAMINATION OF THESIS

- (i) Each thesis will be examined by at least two examiners appointed by the Higher Degrees Advisory Committee on the recommendation of the relevant Specialisation 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.
- (ii) An oral defence of a specific thesis may be made a component of the overall thesis examination procedure upon the recommendation of the Higher Degrees Advisory Committee. Should this be the case, the relevant Specialisation 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 Dean and relevant Head of School, is subject to the express approval of the Higher Degrees Advisory Committee.
- (iii) 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.
- (iv) 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 Specialisation Coordinator by the specified date and, if there is to be an oral examination, before such oral examination. These assessments are individual and confidential and should not be made available to other examiners. Each should make one of the following recommendations:
  - (a) Pass – implying that the thesis will be fully satisfactory except possibly for minor editorial changes;

- (b) 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;
- (c) Fail – implying that the thesis is not of an acceptable standard.
- (v) In the case of (a) and (b) 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 Specialisation Coordinator.
- (vi) The relevant Specialisation Coordinator will forward the set of examiner's assessment forms (together with the additional signed judgments of each examiner respecting any oral examination) to the Higher Degrees Advisory Committee, attaching a formal recommendation based on the examiners' reports. The Faculty Academic Board may accept or reject the recommendation.
- (vii) If a recommendation of type (a) is accepted, the Higher Degrees Advisory Committee will ask the relevant Specialisation 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 Specialisation Coordinator that all changes have been completed satisfactorily.
- (viii) If a recommendation of type (b) is accepted, the Higher Degrees Advisory Committee will ask the relevant Specialisation 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 examiners for assessment.
- (ix) If the Faculty Academic Board accepts a recommendation of type (c) the normal implication is that the candidate will be excluded from the course. However, in exceptional circumstances, the Higher Degrees Advisory Committee may grant the candidate an opportunity to submit a substantially new thesis after a period of not less than six months.
- (x) Normally **all** examiners will be expected to rate the thesis as meeting a satisfactory standard in order for a pass to be awarded. However, if there is substantial disagreement between examiners concerning the acceptability of a thesis, the Faculty Academic Board may confer and seek further advice from the Higher Degree Advisory Committee before making a ruling.

### **Admission to Degree**

Prior to admission to the award, 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:

- ☐ thesis or dissertation associated with a coursework specialisation where this constitutes at least 25% of the credit point total for the course.

A candidate who:

- (i) fulfils the requirements of these rules; and
- (ii) whose work is of a standard that satisfies the Faculty Academic Board (after considering the results in all subjects and/or the reports of all examiners); and
- (iii) has otherwise complied with the provisions of all statutes and other applicable rules; may be admitted to the degree of Master of Education.

## ■ Graduate Diploma in Education (Computer Education) (ED21)

**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:** Ms Glenice Watson

### 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 (e.g. Sperry PC) with at least 640K of memory for at least some parts of the course.

Course Structure		Credit Points	Contact Hrs/Wk
<b>Year 1, Semester 1</b>			
MDP501	Computer Systems	12	3
MDP502	Computers in Education	12	3
<b>Year 1, Semester 2</b>			
MDP503	Information Systems & Education	12	3
Elective	Select from List A	12	3
<b>Year 2, Semester 1</b>			
Elective	Select from List B	12	3
Elective	Select from List B	12	3
<b>Year 2, Semester 2</b>			
MDP506	Computer Education Project	12	3
Elective	Select from List A	12	3
<b>Elective Lists</b>			
<b>List A</b>			
CSP837	Structured Programming	12	3
CSP842	Artificial Intelligence	12	3
MDP504	Computers & School Administration	12	3
MDP505	Computer Tools for Teaching	12	3
<b>List B</b>			
CSP843	Computer Graphics	12	3
MDP507	Teaching Computer Studies: Secondary	12	3
MDP508	Computers in Primary Education	12	3
MDP509	Modelling Information Systems	12	3

## ■ Graduate Diploma in Education (Curriculum) (ED22)

**Location:** Kelvin Grove and/or Carseldine campus

**Course Duration:** 2 years part-time

**Total Credit Points:** 96

**Standard Credit Points/Full-Time Semester:** 48

**Course Coordinator:** Dr Roy Ballantyne

### Entry Requirements

To be eligible for entry an applicant must:

- (i) hold an approved diploma or degree (or equivalent); and
- (ii) have had at least one year's teaching experience; and
- (iii) have successfully completed some studies in the specialisation area of their choice.

### Course Structure

Students elect to specialise in the areas of Art Education, Arts in Early Childhood, Environmental Education, Human Relationships Education, Mathematics Education, Music Education and Science Education.

Students must take both core subjects and six specialisation subjects from the elected area to satisfy requirements for the award of a Graduate Diploma in Education (Curriculum).

The subjects in the program are organised as set out below.

		Credit Points	Contact Hrs/Wk
<b>COURSE CORE SUBJECTS</b>			
CUP501	Curriculum Foundations	12	3
CUP502	Curriculum Development & Innovation	12	3
<b>SPECIALISATIONS</b>			
<b>ART EDUCATION</b>			
AAP501	Art Curriculum Foundations	12	3
AAP502	Art Education Program Design & Practice	12	3
Choose four from the following:			
AAP503	Clay Materials 1	12	3
AAP504	Clay Materials 2	12	3
AAP505	Fibre Arts 1	12	3
AAP506	Fibre Arts 2	12	3
AAP507	Painting & Drawing 1	12	3
AAP508	Painting & Drawing 2	12	3
AAP509	Photographic Media 1	12	3
AAP510	Photographic Media 2	12	3
AAP511	Printmaking 1	12	3
AAP512	Printmaking 2	12	3
AAP513	Applied Study in Art Education	12	3
AAP514	Curriculum Evaluation: Arts Education	12	3
<b>ARTS IN EARLY CHILDHOOD</b>			
EAP551	Dance Education in Early Childhood	12	3
EAP552	From Play to Drama in Early Childhood Education	12	3
EAP553	Music in Early Childhood Education	12	3

EAP554	The Artistic Process & the Visual Arts in Early Childhood Education	12	3
Choose two from the following:*			
AAB202	Acting 1	8	3
AAB203	Acting 2	12	4
AAB305	Advanced Drama Process	8	3
AAP503	Clay Materials 1	12	3
AAP504	Clay Materials 2	12	3
AAB117	Dance in Education	16	3
AAB213	Directing	8	3
AAB214	Drama Process	8	3
AAB208	Elements of Drama	12	4
AAP505	Fibre Arts 1	12	3
AAP506	Fibre Arts 2	12	3
AAP507	Painting & Drawing 1	12	3
AAP508	Painting & Drawing 2	12	3
AAP511	Printmaking 1	12	3
AAB119	Jazz & Folk Dance	12	3
AAB206	Stagecraft 1	8	4
AAB303	Theatre in Education	8	3
ENVIRONMENTAL EDUCATION			
SBP500	Curriculum Issues in Environmental Education 1	12	3
SBP501	Curriculum Issues in Environmental Education 2	12	3
SBP502	Ethics & Economics in Environmental Education	12	3
SBP503	Natural Environmental Education Issues	12	3
SBP504	Practical & Fieldwork in Environmental Education	12	3
SBP505	Social Environmental Education Issues	12	3
HUMAN RELATIONSHIPS EDUCATION			
Only six from the subjects below will be offered:			
LEP515	Human Sexuality & Learning	12	3
LEP516	Human Sexuality & Development	12	3
	OR		
LEP517	Ethics & Human Relationships Education	12	3
LEP518	Human Relationships Across the Lifespan	12	3
LEP519	Interpersonal & Professional Relationships 1	12	3
LEP520	Interpersonal & Professional Relationships 2	12	3
	OR		
LEP521	Sociocultural Context of Human Relationships Education	12	3
LEP522	Interpersonal & Small Group Teaching Strategies	12	3
MATHEMATICS EDUCATION			
MDP515	Mathematics Curriculum Specialisation	12	3
MDP516	Diagnosis & Evaluation in Mathematics Education	12	3
MDP517	Foundations of Mathematics in Education	12	3
MDP518	Historical Topics for Mathematics Education	12	3
MDP519	Mathematics, Science, Technology & Society	12	3
MDP520	Thinking & Learning in Mathematics & Science	12	3
MUSIC EDUCATION			
AAP530	Curriculum Analysis & Modification	12	3
AAP531	Issues in Music Education	12	3
AAP532	Studies in Curriculum	12	3
AAP533	Baroque & the Rococo	12	3
AAP534	Classical & Romantic Music	12	3
AAP535	Twentieth Century Music	12	3
SCIENCE EDUCATION			
MDP519	Mathematics, Science, Technology & Society	12	3
MDP520	Thinking & Learning in Mathematics & Science	12	3
MDP525	Science Curriculum Specialisation	12	

\* Check availability of subjects with Academy of Arts.

MDP526	Resourcing Science Education	12	3
MDP527	Science Concept Development & Learning	12	3
MDP528	Perceptual & Experimental Skills in Science Education	12	3

## ■ Graduate Diploma in Education (Early Childhood) (ED20)

**Location:** Kelvin Grove campus

**Course Duration:** 2 years external

**Total Credit Points:** 96

**Standard Credit Points/Full-Time Semester:** 48

**Course Coordinator:** Ms Ann Farrell

### 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 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 is 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

#### Year 1, Semester 1

EAP520	Early Childhood Development & Learning	8
EAP521	Early Childhood Education 1	12

#### Year 1, Semester 2

EDP510	Practicum in Early Childhood 1	8
EAP522	Early Childhood Education 2	12
EAP523	The Context of Early Childhood Education	8

#### Year 2, Semester 1

EAP524	Research in Early Childhood	8
EAP525	Early Childhood Program Planning	12

#### Year 2, Semester 2

EDP511	Practicum in Early Childhood 2	8
EAP526	Early Childhood Education 3	12
EAP527	Transactions in Early Childhood Education	8



## ■ Graduate Diploma in Education (Early Childhood Teaching) (ED30)

**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 Berthelsen

### 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 60 days of practice teaching and field studies within early childhood educational settings.

Course Structure		Credit Points	Contact Hrs/Wk
<b>Semester 1</b>			
EAP410	Social, Emotional & Physical Development (0-9)	8	3
EAP411	Creativity & Language 1	8	4
EAP412	Thinking & Problem Solving 1	8	4
EAP413	Program Planning & Teaching Strategies 1	8	3
EAP414	Sociocultural Contexts of Education	8	3
EDP410	Practice Teaching 1	8	-
<b>Semester 2</b>			
EAP415	Cognition & Language (0-9)	8	3
EAP416	Creativity & Language 2	8	4
EAP417	Thinking & Problem Solving 2	8	4
EAP418	Program Planning & Teaching Strategies 2	8	3
EAP419	Teaching in Contemporary Society	8	3
EDP411	Practice Teaching 2	8	-

## ■ Graduate Diploma in Education (Primary Teaching) (ED31)

**Location:** Carseldine campus

**Course Duration:** 1 year full-time

**Total Credit Points:** 96

**Standard Credit Points/Full-Time Semester:** 48

**Course Coordinator:** Ms Tania Aspland

### Entry Requirements

To be eligible for admission, an applicant must hold an approved degree or equivalent (no prerequisite studies are required). Interviews will be conducted when deemed necessary.

### Special Course Requirements

Students are required to demonstrate competencies in swimming and first aid by the conclusion of the year and prior to Teacher Registration. Students may be given opportunities to specialise in a LOTE subject if certain requirements are met.

Credit Points		Credit Points	Contact Hrs/Wk
<b>Year 1, Semester 1</b>			
CUP420	Professional & Curriculum Studies 1	12	4
EDP412	Practice Teaching 1	8	4 weeks
LEP430	Human Development & Learning	8	3
LAP440	Language & Literacy 1	8	3
MDP450	Mathematics, Science & Technology 1	12	4
<b>Year 2, Semester 2</b>			
CPP431	The Sociocultural Context of Contemporary Educational Issues & Practice	8	4
CUP421	Professional & Curriculum Studies 2	12	3
EDP413	Practice Teaching 2	8	4 weeks
LAP441	Language & Literacy 2	8	3
MDP451	Mathematics, Science & Technology 2	12	4

## ■ Graduate Diploma in Education (Resource Teaching) (ED24)

**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 Don Burnes

### Note: Fieldwork Subjects for Part-time Students

Students studying on a part-time basis should replace the subject LEP504 Resource Teaching Fieldwork 1 (8 credit points) with LEP509 Resource Teaching Fieldwork 1A (4 credit points) and LEP510 Resource Teaching Fieldwork 1B (4 credit points), and also replace LEP506 Resource Teaching Fieldwork 2 (8 credit points) with LEP511 Resource Teaching Fieldwork 2A (4 credit points) and LEP512 Resource Teaching Fieldwork 2B (4 credit points) in the appropriate semesters.

### Entry Requirements

To be eligible for admission, an applicant must:

- hold an appropriate degree or Diploma of Teaching (or equivalent); and
- have had suitable teaching experience; and
- 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
<b>Semester 1</b>			
LEP501	Learners with Special Needs	10	3
LEP502	Developing Relationships & Groups +	10	4
LEP503	Remediating Literacy Difficulties *+	10	3
LEP504	Resource Teaching Fieldwork 1 *+	8	2
MDP511	Diagnostic Assessment in Mathematics	10	3
<b>Semester 2</b>			
CPP500	Sociocultural Issues in Education	10	3
CUP500	Curriculum: Learners with Special Needs	10	3
LEP505	Study Skills, Literacy & Learning *+	10	3
LEP506	Resource Teaching Fieldwork 2	8	2
LEP507	Research Methods in Resource Teaching *+	10	3
	OR		
LEP508	Independent Study in Resource Teaching *+	10	3

## ■ Graduate Diploma in Education (Secondary Teaching) (ED32)

**Location:** Kelvin Grove campus

**Course Duration:** 1 year full-time

**Total Credit Points:** 96

**Standard Credit Points/Full-Time Semester:** 48

**Course Coordinator:** Dr Ian Macpherson

### Entry Requirements

There are two sets of entry requirements:

- (i) possession of a recognised degree, or in some cases diploma; and
- (ii) eligibility to study Curriculum and Teaching Subjects, as follows:
  - **Curriculum major:** successful studies amounting to 33 per cent of the undergraduate degree;
  - **Curriculum minor:** successful studies amounting to 16 per cent of the undergraduate degree.

Some subject areas have further requirements:

- **Science:** a breadth of Science studies is sought;
- **Art:** a range of studio skills is preferred.

Interviews and auditions are held in certain subject areas such as Drama and Music.

\* Subject available for part-time (evening) students.

+ Subject available for part-time (external) students.

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

CPP410	Understanding Education A	9	3
EDP450	Teaching Practice A	6	-
	Curriculum & Teaching Studies A (One Subject Selected from Group A)	24	6
LEP410	Human Development & Learning A	9	3

**Semester 2**

CPP411	Understanding Education B	9	3
EDP451	Teaching Practice B	6	-
	Curriculum & Teaching Studies B (One Subject Selected from Group B)	12	3
	Curriculum & Teaching Studies C (One Subject Selected from Group C)	12	
LEP411	Human Development & Learning B	9	3

**Curriculum and Teaching Studies**

Group A subjects are prerequisites for the Group B subjects in the same block. Together, A and B subjects form the Curriculum major. Students take:

- ☐ one Group A subject and two Group B subjects in the same block, or
- ☐ one Group B subject in the same block and one Group C subject, or
- ☐ one Group B subject in the same block and one Group B subject for which they are qualified from a different block.

Science is an exception to this (see note in Science block).

**Group A subjects**

SBP420	Business Education CTS A
LAP420	Communication CTS A
MDP420	Computer Education CTS A
PNP420	Home Economics CTS A
LAP430	Languages other than English (LOTE) CTS A
MDP430	Mathematics CTS A
HMP420	Physical Education CTS A
MDP440	Science CTS A* (Full-time)

**Group B subjects**

SBP421	Accounting/ Business Management CTS B
SBP422	Economics CTS B
SBP423	Legal Studies CTS B
SBP424	Office Automation CTS B
LAP421	English CTS B
LAP422	Film & Television CTS B
MDP421	Computer Education CTS B
PNP421	Home Economics CTS B
LAP431	Chinese CTS B
LAP432	French CTS B
LAP433	German CTS B
LAP434	Indonesian CTS B
LAP435	Italian CTS B
LAP436	Japanese CTS B
MDP431	Mathematics CTS B
HMP421	Physical Education CTS B
MDP441	Science CTS B
MDP442	Agriculture CTS B
MDP443	Biology CTS B
MDP444	Chemistry CTS B
MDP445	Earth Science CTS B
MDP446	Marine Studies CTS B
MDP447	Physics CTS B

\* For Science students, the Curriculum and Teaching Studies structure requires compulsory enrolment in Science A, Science B and usually one other of the Group C Science subjects. If this pattern is followed, a Group C subject is not possible.

SBP430 Social Science CTS A

SBP431 Geography CTS B

SBP432 History CTS B

AAP420 The Arts CTS A

AAP421 Dance CTS B

AAP422 Drama CTS B

AAP423 Music CTS B

AAP424 Visual Arts CTS B

### Group C subjects

For students who take a Group C subject, this is the Curriculum minor.

Prerequisite undergraduate studies are required for the following:

AAP425 Drama CTS C

AAP426 Music CTS C

AAP427 Visual Arts CTS C

HMP423 Outdoor Education CTS C

LAP423 Junior English\* CTS C

LAP424 Teaching English as a Second Language CTS C

LAP437 LOTE in the Primary School CTS C

LEP420 Human Relations Education CTS C

MDP432 Junior Mathematics\* CTS C

MDP448 Junior Science\* CTS C

SBP433 Junior Social Science\* CTS C

NO prerequisite studies are required for the following:

CPP420 Aboriginal Education CTS C

LEP421 Adult Learners CTS C

LEP422 Exceptionality CTS C

### Part-Time Course Structure (Science only)

**Credit  
Points**

**Contact  
Hrs/Wk**

#### Year 1, Semester 1

LEP410	Human Development & Learning A	9	3
MDP449	Science Curriculum & Teaching Studies A	24	6
EDP450	Teaching Practice A	6	-

#### Year 1, Semester 2

CPP410	Understanding Education A	9	3
MDP449	Science Curriculum & Teaching Studies A (continued)	(24)	(6)

#### Year 2, Semester 1

LEP411	Human Development & Learning B	9	3
MDP441	Science Curriculum & Teaching Studies B	12	3
EDP451	Teaching Practice B	6	-

#### Year 2, Semester 2

CPP411	Understanding Education B Curriculum & Teaching Studies C	9 12	3 -
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## ■ Graduate Diploma in Education (Teacher-Librarianship) (ED25)

**Location:** Kelvin Grove campus

**Course Duration:** 1 year full-time, 1.5 years full-time/part-time

**Total Credit Points:** 96

\* These subjects are incompatible with the Group A subject in the same field.

**Entry Requirements:**

To be eligible for admission, an applicant must:

- (i) hold an appropriate degree, diploma or equivalent qualification, including an approved teaching qualification; and
- (ii) have had proven satisfactory teaching experience, normally at least three years in the last 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 course is divided into two parts, Part A and Part B, each of which corresponds to one semester of full-time study. Part A is offered full-time, or part-time during the day, in both semesters each year, while Part B is offered by evening and external studies. Part B is normally completed part-time, but may be completed full-time in one semester.

Applicants normally fall into two categories: those seeking sponsorship by employing authorities (State and Catholic Education); and independent (private) applicants. Teachers who fall into the first category are notified by circular memorandum to schools and/or by a notice in the Education Office Gazette (April and September).

Course Structure		Credit Points	Contact Hrs/Wk
<b>Part A: Full-time; part-time during the day</b>			
Part A comprises four core subjects:			
LAP501	Foundations of Teacher-Librarianship	12	3
LAP502	Curriculum & Related Resources	12	3
LAP503	Literature & Literacy: Resources & Strategies	12	2
LAP504	School Library Resources: Organisation & Access	12	*4

**Part B: Part-time (Evening and/or External); Full-time (Evening and/or External)**

Part B comprises four subjects – two core and two electives:

**Core**

LAP505	Communication & Management in School Library Resource Centres	12	External
LAP506	Information Services for Schools	12	3 or External

**Electives**

Elective subjects provide opportunities for students to extend their competence in specialised areas falling within overall course objectives.

Students are required to complete 24 credit points.

\* Plus Field Program: 2 hrs/wk and 3 weeks school experience.

**List A (Literature/Resources)**

ISP811	Books & Publishing	12	External
LAP507	Australian Literature for Young People	12	External
LAP511	Literacy Education & Libraries	12	External
LAP512	Literature for Young People	12	External
LAP515	Resource Services for Special Needs	12	3 or External
LAP517	Storytelling	12	3
LAP518	Visual Literacy & Resource Design	12	External

**List B (Systems/Management/Communication)**

LAP510	Interactive Technologies in Instruction	12	External
LAP513	Media Literacy & the School	12	External
LAP514	Reference Services & Materials	12	External

**List C**

LAP509	Directed Study	12	-
LAP516	Special Seminar	12	May vary

**Note:** Students may select Elective subjects from the Graduate Diploma in Library Science and from other University courses as approved by the Course Coordinator.

## ■ Bachelor of Education (In-service) (ED26)

**Location:** 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' preservice 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 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 & Early Childhood Teachers**

#### **Credit Points**

##### **Part 1: Compulsory Subjects**

LAB490	Recent Developments in Language/Reading	12
MDB490	Topics in Teaching Mathematics	12
PLUS		

##### **Part 2: Two of the following subjects determined by the Course Coordinator after reviewing the student's academic background:**

CPB491	Sociology of Education	12
CPB492	Philosophy of Education	12
LEB490	Human Development & Learning	12

#### **For TAFE and Secondary Teachers**

##### **Part 1: Compulsory Subjects**

CPB493	Secondary Education Today	12
CUB490	Introduction to Curriculum Construction	12
PLUS		

##### **Part 2: Two of the following subjects determined by the Course Coordinator after reviewing the student's academic background:**

CPB491	Sociology of Education	12
CPB492	Philosophy of Education	12
LEB490	Human Development & Learning	12

Any student who has completed four or more subjects of an Upgrading course will be eligible for 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:

#### **Speciality**

Studies in Education (List A)	CPB420 Contemporary Issues in Education plus 12 credit points from List A	12 12
Curriculum Studies (List B)	CUB410 Teachers & the Curriculum plus 12 credit points from List B	12 12



Studies in the Teaching/  
Learning Process  
and Specialist Studies  
(Lists C and D)

24 credit points selected  
from these specialities  
with the proviso that at  
least 12 credit points  
are studied from the  
Specialist Studies  
speciality.  
(Note: There is no  
requirement to select a  
subject from the  
Teaching/Learning  
Process speciality).

24

plus 24 credit points  
selected from any  
speciality (Lists A,  
B, C, D), subject to  
approval of pattern  
of study by the Course  
Coordinator.

24

96

List A: Studies in Education		Credit Points	Contact Hrs/Wk
CPB420	Contemporary Issues in Education	12	3
CPB421	Philosophical Perspectives on Schooling	12	3
CPB422	Philosophy in the Classroom	12	3
CPB423	Society, Social Policy & Education	12	3
CPB424	Sociology of the School	12	3
CPB425	Aesthetic Education	12	3
LEB420	Interpersonal Psychology in Education	12	3
LEB421	Applied Strategies in Classroom Learning	12	3
LEB422	Adult Learning	12	3
List B: Curriculum Studies			
CUB410	Teachers & the Curriculum	12	3
AAB410	Art Curriculum Design & Development	12	3
AAB411	Drama Across the Curriculum	12	3
CUB411	Evaluation in Curriculum Development	12	3
CUB413	Curriculum, Making it Happen at School	12	3
CUB414	Adult Education	12	3
EAB410	Early Education: Deciding the Curriculum	12	3
EAB411	Early Education: Literacy	12	3
HMB410	Physical Education Curriculum: Secondary	12	3
HMB411	Physical Education Curriculum: Primary	12	3
LAB410	Language Curriculum Issues	12	3
MDB410	Computers in the School Curriculum	12	3
MDB411	Early Childhood Mathematics Curriculum	12	3
MDB412	Primary Mathematics Curriculum	12	3
MDB413	Secondary Mathematics Curriculum	12	3
MDB415	Primary Science Curriculum	12	3
MDB416	Secondary Science Curriculum	12	3
PUB412	Health Education Curriculum Planning	12	3
PUB414	Home Economics Applied Curriculum	12	3
SBB410	Consumer Education	12	3
SBB411	Social Education Curriculum Development	12	3
SBB412	Social Education in the Curriculum	12	3
SBB413	Legal Studies Applied Curriculum	12	3

**List C: Studies in the Teaching/Learning Process**

CUB431	Classroom Management: Models & Practice	12	3
CUB432	Teachers & Isolated Learners	12	3
CUB433	Teaching Strategies	12	3
CUB434	Supervision of Teaching	12	3
LEB430	Creativity in Problem Solving	12	3
LEB431	Innovative Teaching Methods	12	3
MDB430	Teaching Mathematics Problem Solving	12	3

**List D: Specialist Studies****ACADEMY OF THE ARTS,****FACULTY OF ARTS**

AAB440	Visual Awareness & Communication	12	3
AAB442	History of Australian Art	12	3
AAB443	Photography as Visual Art	12	3
AAB444	Visual Arts of Asia	12	3
AAB445	Clay Materials	12	3
AAB446	Painting Studies	12	3
AAB447	Drawing	12	3
AAB449	Educational Drama	12	3
AAB450	Studies in Graphic Printmaking	12	3
AAB451	Fibre Construction	12	3
AAB452	Contemporary Surface Design for Textiles	12	3
AAB453	Computer Graphics in the Curriculum	12	3
AAB454	Advanced Three-dimensional Studies	12	3
AAB712	Contemporary Art Issues	12	3

**SCHOOL OF CULTURAL AND POLICY STUDIES,****FACULTY OF EDUCATION**

CPB440	The Community & School Administration	12	3
CPB441	History of Australian Education	12	3
CPB442	Education for a Multicultural Society	12	3
CPB443	Comparative & International Education	12	3
CPB444	Issues in Aboriginal Education	12	3
CPB445	Career & Life Patterns of Women Teachers	12	3
CPB446	Women, Education & Social Change in Australia	12	3

**SCHOOL OF CURRICULUM AND PROFESSIONAL STUDIES,****FACULTY OF EDUCATION**

CUB441	International Education Field Study	12	3
CUB442	Introduction to Educational Administration	12	3
CUB443	Classroom Assessment Practices	12	3
CUB444	Educators & the Law	12	3
CUB445	Community Resources & School Change	12	3

**SCHOOL OF EARLY CHILDHOOD,****FACULTY OF EDUCATION**

EAB440	Working with Parents & Community	12	3
EAB441	Early Education Development & Learning	12	3

**SCHOOL OF HUMAN MOVEMENT STUDIES,****FACULTY OF HEALTH**

HMB440	Motor Development & Learning in Children	12	3
HMB441	Sociology of Sport	12	3
HMB442	Administration in Physical Education & Sport	12	3

**SCHOOL OF HUMANITIES,****FACULTY OF ARTS**

HUB002	Contemporary Moral Problems	12	3
HUB111	Approaches to Literature	12	3
HUB311	The Study of History	12	3
HUB312	Asian Studies	12	3
HUB313	Australian Studies	12	3
HUB314	Indonesia: Australia's Neighbour	12	3

**SCHOOL OF LANGUAGE AND LITERACY EDUCATION,  
FACULTY OF EDUCATION**

LAB440	The Teacher & the Writing Process	12	3
LAB441	Children's Literature	12	3
LAB442	Tutoring Parents as Literacy Tutors	12	3
LAB443	Trends in the Teaching of Reading	12	3
LAB444	Learning to Read Through Reading/Writing	12	3
LAB445	Language Learning Through FLIP	12	3
LAB446	Grammar for Writers	12	3

**SCHOOL OF LEARNING AND DEVELOPMENT,  
FACULTY OF EDUCATION**

LEB441	Educational Counselling	12	3
LEB442	Advanced Educational Counselling	12	3
LEB443	Human Sexuality & Learning	12	3
LEB444	Human Sexuality & Development	12	3
LEB445	Studies in Alcohol & Other Drugs	12	3
LEB446	Psychoeducational Assessment	12	3
LEB447	Psychology of Reading Disability	12	3

**SCHOOL OF LIFE SCIENCE,  
FACULTY OF SCIENCE**

LSB485	Australian Biology	12	3
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**SCHOOL OF MATHEMATICS, SCIENCE AND TECHNOLOGY EDUCATION,  
FACULTY OF EDUCATION**

MDB440	Computers & Education	12	3
MDB441	Explorations Using LOGO	12	3

**SCHOOL OF PUBLIC HEALTH,  
FACULTY OF HEALTH**

PUB365	Evolution of Western Dress	12	3
PUB440	Clothing Design	12	3
PUB441	Nutrition Education	12	3

**SCHOOL OF SOCIAL, BUSINESS AND ENVIRONMENTAL EDUCATION,  
FACULTY OF EDUCATION**

SBB440	Environmental Education	12	3
SBB441	Advanced Secretarial Studies	12	3

**SCHOOL OF SOCIAL SCIENCE,  
FACULTY OF ARTS**

SSB802	Technology & Culture	12	3
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**FACULTY OF EDUCATION SUBJECTS**

EDB440	Independent Study (Available both semesters. Check Independent Study Guide available from Student Affairs, Kelvin Grove - telephone 864 3408.)	12	3
EDB441	Educational Research & Practice (Subject to approval)	12	3

**Note:** In addition to the above subjects students may also be given approval to enrol in selected subjects from Graduate Diplomas offered by the University.

## ■ Bachelor of Education (Secondary) (ED50)

**Location:** Kelvin Grove campus (some subject areas are located at Carseldine and Gardens Point campuses)

**Course Duration:** 4 years full-time

**Total Credit Points:** 384

**Standard Credit Points/Full-Time Semester: 48****Course Coordinator: Dr Bob Hardingham**

<b>Course Structure</b>		<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
<b>PROFESSIONAL STUDIES COMPONENT</b> (192 credit points required)			
<b>Year 1, Semester 1</b>			
CPB301	Education in Context	12	3
	OR		
LEB301	Adolescent Development & Human Relationships	12	3
<b>Year 1, Semester 2</b>			
CPB301	Education in Context	12	3
	OR		
LEB301	Adolescent Development & Human Relationships	12	3
<b>Year 2, Semester 1</b>			
CPB302	Education & Society	12	3
<b>Year 2, Semester 2</b>			
CUB301	Introduction to Curriculum & Teaching Studies	12	3
<b>Year 3, Semester 1</b>			
LEB302	Psychology of Learning & Teaching	12	3
	Curriculum & Teaching Studies 1A*	8	3
<b>Year 3, Semester 2</b>			
CPB303	Philosophical Analysis of School Practices	12	3
	Curriculum & Teaching Studies 1B *	8	3
<b>Year 3, Semesters 1 and 2</b>			
EDB301	Practice Teaching 1	8	-
<b>Year 4, Semester 1</b>			
CUB302	Teachers & School Programs	12	3
	Curriculum & Teaching Studies 2A*	12	3
	Curriculum & Teaching Studies 2B*	12	3
EDB302	Practice Teaching 2	12	-
<b>Year 4, Semester 2</b>			
	Curriculum & Teaching Studies 3A*	8	3
	Curriculum & Teaching Studies 3B*	8	3
EDB303	Practice Teaching 3	8	-
	Two Electives (no more than one from any category)		
	The list of Electives will be expanded for 1993		
<b>Category 1: Social, Cultural and International Studies</b>			
CPB320	Critical Perspectives on Classroom Knowledge	12	3
CPB321	Education for a Multicultural Society	12	3
<b>Category 2: Professional Issues and Generic Curriculum Studies</b>			
CUB320	Education, Law & the Beginning Teacher	12	3
SBB320	Environmental Education	12	3

\* Students complete two sets of subjects corresponding with the two discipline areas selected from Table 3. The sets of Curriculum and Teaching Studies are shown in Table 1.

## Bachelor of Education (Secondary) Course Structure+

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	
<b>Discipline Studies*</b>	Discipline Studies A (24 CPs)	Discipline Studies B (24 CPs)	Discipline Studies B (24 CPs)	Discipline Studies A (24 CPs)	Discipline Studies A or B (12 CPs)	Discipline Studies A or B (12 CPs)			<b>192</b>
	Discipline Studies A or C (12 CPs)	Discipline Studies B or C (12 CPs)	Discipline Studies B or C (12 CPs)	Discipline Studies A or C (12 CPs)	Discipline Studies A, B or C (12 CPs)	Discipline Studies A, B or C (12 CPs)			
<b>Professional Studies</b>	Education in Context (12 CPs)	Education in Context (12 CPs)	Education and Society (12 CPs)	Introduction to Curriculum and Teaching Studies (12 CPs)	Psychology of Learning and Teaching (12 CPs)	Philosophical Analysis of School Practices (12 CPs)	Teachers and School Programs (12 CPs)	General Electives (24 CPs)	<b>192</b>
	OR Adolescent Development and Human Relationships (12 CPs)	OR Adolescent Development and Human Relationships (12 CPs)			Curriculum and Teaching Studies 1A (8 CPs)	Curriculum and Teaching Studies 1B (8 CPs)	Curriculum and Teaching Studies 2A (12 CPs)	Curriculum and Teaching Studies 3A (8 CPs)	
							Curriculum and Teaching Studies 2B (12 CPs)	Curriculum and Teaching Studies 3B (8 CPs)	
	Field Experiences 1 week	Field Experiences 1 week	Field Experiences 1 week	Intro to Prac. Teaching 2 weeks Field Experiences 1 week		Prac Teaching 1 4 weeks (8 CPs)	Prac. Teaching 2 6 weeks (12 CPs)	Prac. Teaching 3 4 weeks (8 CPs)	
<b>TOTALS</b>	<b>48</b>	<b>48</b>	<b>48</b>	<b>48</b>	<b>48</b>	<b>48</b>	<b>48</b>	<b>48</b>	<b>384</b>

\* Depending on a student's choice within this strand, different patterns of study may apply.

+ Second and third year students in 1992 will follow a modified structure.

**Category 3: Studies in Human Development and Student Learning**

LEB320	Helping Students with Learning Problems	12	3
LEB321	Teacher as Counsellor	12	3

**Table 1: Curriculum and Teaching Studies A and B**

SBB350	Accounting/Bus. Management Curric & Teach 1	8	3
SBB351	Accounting/Bus. Management Curric & Teach 2	12	3
SBB352	Accounting/Bus. Management Curric & Teach 3	8	3
AAB434	Art Curric & Teach 1	8	3
AAB435	Art Curric & Teach 2	12	3
AAB436	Art Curric & Teach 3	8	3
MDB350	Biology Curric & Teach 1	8	3
MDB351	Biology Curric & Teach 2	12	3
MDB352	Biology Curric & Teach 3	8	3
MDB353	Chemistry Curric & Teach 1	8	3
MDB354	Chemistry Curric & Teach 2	12	3
MDB355	Chemistry Curric & Teach 3	8	3
SBB353	Communication Technology Curric & Teach 1	8	3
SBB354	Communication Technology Curric & Teach 2	12	3
SBB355	Communication Technology Curric & Teach 3	8	3
MDB356	Computing Curric & Teach 1	8	3
MDB357	Computing Curric & Teach 2	12	3
MDB358	Computing Curric & Teach 3	8	3
AAB437	Drama Curric & Teach 1	8	3
AAB438	Drama Curric & Teach 2	12	3
AAB439	Drama Curric & Teach 3	8	3
MDB359	Earth Science Curric & Teach 1	8	3
MDB360	Earth Science Curric & Teach 2	12	3
MDB361	Earth Science Curric & Teach 3	8	3
SBB356	Economics Curric & Teach 1	8	3
SBB357	Economics Curric & Teach 2	12	3
SBB358	Economics Curric & Teach 3	8	3
LAB350	English Curric & Teach 1	8	3
LAB351	English Curric & Teach 2	12	3
LAB352	English Curric & Teach 3	8	3
LAB353	Film & Media Curric & Teach 1	8	3
LAB354	Film & Media Curric & Teach 2	12	3
LAB355	Film & Media Curric & Teach 3	8	3
SBB359	Geography Curric & Teach 1	8	3
SBB360	Geography Curric & Teach 2	12	3
SBB361	Geography Curric & Teach 3	8	3
PUB340	Health Education Curric & Teach 1	8	3
PUB350	Health Education Curric & Teach 2	12	3
PUB360	Health Education Curric & Teach 3	8	3
SBB362	History Curric & Teach 1	8	3
SBB363	History Curric & Teach 2	12	3
SBB364	History Curric & Teach 3	8	3
PUB310	Home Economics Curric & Teach 1	8	3
PUB320	Home Economics Curric & Teach 2	12	3
PUB330	Home Economics Curric & Teach 3	8	3
LEB350	Human Relationships Education Curric & Teach 1	8	3
LEB351	Human Relationships Education Curric & Teach 2	12	3
LEB352	Human Relationships Education Curric & Teach 3	8	3
SBB365	Legal Studies Curric & Teach 1	8	3
SBB366	Legal Studies Curric & Teach 2	12	3
SBB367	Legal Studies Curric & Teach 3	8	3

LAB356	LOTE Curric & Teach 1	8	3
LAB357	LOTE Curric & Teach 2	12	3
LAB358	LOTE Curric & Teach 3	8	3
MDB362	Mathematics Curric & Teach 1	8	3
MDB363	Mathematics Curric & Teach 2	12	3
MDB364	Mathematics Curric & Teach 3	8	3
HMB310	Physical Education Curric & Teach 1	8	3
HMB320	Physical Education Curric & Teach 2	12	3
HMB330	Physical Education Curric & Teach 3	8	3
MDB365	Physics Curric & Teach 1	8	3
MDB366	Physics Curric & Teach 2	12	3
MDB367	Physics Curric & Teach 3	8	3
MDB368	Science Curric & Teach 1	8	3
MDB369	Science Curric & Teach 2	12	3
MDB370	Science Curric & Teach 3	8	3
SBB368	Social Science Curric & Teach 1	8	3
SBB369	Social Science Curric & Teach 2	12	3
SBB370	Social Science Curric & Teach 3	8	3

#### DISCIPLINE STUDIES COMPONENT (192 credit points required)

Students are required to specialise in two teaching areas appropriate to Years 8-12 in Queensland. They must complete at least 72 credit points in one area and 96 credit points in the other. The remaining 24 credit points may be added to the 72, added to the 96, or used for personal development in a third area. Hence the combinations available include the following:

(a) Teaching area 1	72 credit points
Teaching area 2	120 credit points
(b) Teaching area 1	96 credit points
Teaching area 2	96 credit points
(c) Teaching area 1	72 credit points
Teaching area 2	96 credit points
Liberal Studies	24 credit points

Initial entry into the course is into one of the course streams as shown in Table 2.

**Table 2: Entry into Course Streams**

Course Stream	Discipline Areas
Art	Art
Business Education	Accounting/Business Management Communication Technology Economics Legal Studies
Communication	English Film & Media Studies French German Italian
Drama	Drama
Home Economics	Home Economics
Physical Education	Physical Education

Science/Mathematics

Biology  
Chemistry  
Computing  
Earth Science  
Mathematics  
Physics  
Science Studies

Social Science

Geography  
History  
Social Science

Studies are also available in Health Education and Human Relationships Education.

The teaching areas are divided into Group A and Group B as shown in Table 3. Students select one area from Group A and one from Group B. Students may select up to 24 credit points from subjects in Group C.

**Table 3: Possible Combinations of Subject Areas**

Group A	Group B	Group C
Accounting/Business Management	Accounting/Business Management	Subjects listed under A and B (excluding the two teaching areas) plus subjects from other QUT courses.
Art	Biology	
Communication Technology	Chemistry	
Drama	Computing	
English	Earth Science	
History	Economics	
Home Economics	English	
Mathematics	Film & Media	
Physical Education	French	
Science Studies	Geography	
Social Science	German	
	Health Education	
	Human Relationships Education	
	Italian	
	Legal Studies	
	Mathematics	
	Physics	

**Note:**

- Where the same subject area is listed in both Groups A and B (e.g. English), it may only be selected once.
- There may be limited places in some disciplines as a second teaching area.
- Students selecting Science Studies or Physical Education are encouraged to complete at least 96 credit points in these areas.
- Students in second or third year of the course will continue with subject combinations outlined in 1991.

**ACCOUNTING/BUSINESS MANAGEMENT**

**Minor (72 credit points)**

AYB110	Accounting	12	4
AYB111	Financial Accounting	12	4
COB115	Organisation & Management	12	3
FNB102	Business Computing	12	4
FNB122	Management Accounting	12	4
COB116	Small Business Enterprise	12	3
	OR		
AYB101	Computerised Accounting Systems	12	4

**Major (96 credit points)**

AYB101	Computerised Accounting Systems	12	4
AYB102	Accounting Disclosure & Auditing	12	4



AYB110	Accounting	12	4
AYB111	Financial Accounting	12	4
COB115	Organisation & Management	12	3
COB116	Small Business Enterprise	12	3
FNB102	Business Computing	12	4
FNB122	Management Accounting	12	4

### Extended Major (120 credit points)

AYB101	Computerised Accounting Systems	12	4
AYB110	Accounting	12	4
AYB111	Financial Accounting	12	4
AYB112	Company Accounting	12	4
AYB210	Auditing	12	3
COB115	Organisation & Management	12	3
COB116	Small Business Enterprise	12	3
FNB102	Business Computing	12	4
FNB107	Finance 1	12	4
FNB122	Management Accounting	12	4

### ART

#### Minor (72 credit points)

AAB052	Signs & Meanings	12	3
AAB421	Foundation Art Studies	12	4
AAB422	Painting/Drawing/Fibre Studies	12	6
AAB423	Computer Graphics/Intermedia Studies	8	4
AAB424	Ceramic/Sculpture Studies	8	4
AAB425	Photography/Printmaking Studies	8	4
AAB442	History of Australian Art	12	3

#### Major (96 credit points)

AAB052	Signs & Meanings	12	3
AAB421	Foundation Art Studies	12	4
AAB422	Painting/Drawing/Fibre Studies	12	6
AAB423	Computer Graphics/Intermedia Studies	8	4
AAB424	Ceramic/Sculpture Studies	8	4
AAB425	Photography/Printmaking Studies	8	4
AAB442	History of Australian Art	12	3
	EITHER		
AAB426	Advanced Discipline Studies 1 - 2D Studies	12	3
AAB427	Advanced Discipline Studies 2 - 2D Studies	12	3
	OR		
AAB428	Advanced Discipline Studies 1 - 3D Studies	12	3
AAB429	Advanced Discipline Studies 2 - 3D Studies	12	3
	OR		
AAB430	Advanced Discipline Studies 1		
	- Imaging in Technology	12	3
AAB431	Advanced Discipline Studies 2		
	- Imaging in Technology	12	3
	OR		
AAB432	Advanced Discipline Studies 1 - Intermedia Studies	12	3
AAB433	Advanced Discipline Studies 2 - Intermedia Studies	12	3

### Extended Major (120 credit points)

As for the major program plus 24 credit points from either further subjects from the Advanced Discipline Studies or Art subjects in other suitable courses.

### BIOLOGY

#### Minor (72 credit points)

LSB122	Biology 1	12	5
LSB222	Biology 2	12	5
LSB242	Human Anatomy & Physiology	12	5
LSB312	Marine Studies	12	5

Plus two (24 credit points) elective Biology subjects selected in consultation with the BEd Science Strand Coordinator. In some cases students may need to select the subject Cell Biology as a prerequisite for certain second level subjects.

### **Major (96 credit points)**

As for the minor program plus two (24 credit points) electives in Biology subjects selected in consultation with the BEd Science Strand Coordinator.

### **Extended Major (120 credit points)**

As for the major program plus two (24 credit points) electives in Biology subjects selected in consultation with the Science Strand Coordinator.

## **CHEMISTRY**

### **Minor (72 credit points)**

CHB182	Chemistry 1	12	5
CHB282	Chemistry 2	12	5

Plus two of the following electives:

CHB313	Analytical Chemistry 3	12	5
CHB333	Inorganic Chemistry 3	12	5
CHB352	Organic Chemistry 3	12	5
CHB372	Chemistry 3	12	5

Plus any two second or third level Chemistry or Chemistry related subjects (e.g. Biochemistry, Geochemistry) selected in consultation with the BEd Science Strand Coordinator. Students must ensure that they have studied the necessary prerequisites for Chemistry related subjects.

### **Major (96 credit points)**

As for the minor program plus two (24 credit points) electives in Chemistry or Chemistry related subjects selected in consultation with the BEd Science Strand Coordinator.

### **Extended Major (120 credit points)**

As for the major program plus two (24 credit points) electives in Chemistry subjects or Chemistry related subjects selected in consultation with the BEd Science Strand Coordinator.

## **COMMUNICATION TECHNOLOGY**

### **Minor (72 credit points)**

COP100	Business Communication	12	3
COB118	Communication Technology in Organisations	12	3
COB119	Text Formatting & Transcription	12	3
COB121	Records Management	12	3
COB122	Office Procedures	12	3
COB123	Issues in Communication Technology	12	3

### **Major (96 credit points)**

As for the minor program plus the following:

COB126	Supervision & Administration	12	3
COB128	Supervised Project	12	2

## **COMPUTING**

### **Minor (72 credit points)**

CSB860	Computer Systems & Architecture	12	3
CSB862	Computational & Mathematical Foundations	12	3
CSB864	Programming Principles	12	3
CSB866	Artificial Intelligence	12	3
ISB863	Database Theory & Techniques	12	3
ISB865	Information System Modelling	12	3
MDB375	Computer Applications	12	3

**Major (96 credit points)**

As for the minor program plus the following:

CSB087	Programming Languages	12	3
MDB377	Project Planning & Implementation	12	3

**Extended Major (120 credit points)**

As for the major program plus two elective Computing subjects selected in consultation with the BEd Computing Strand Coordinator.

**DRAMA****Minor (72 credit points)**

AAB202	Acting 1	8	4
AAB204	Voice & Movement 1	8	4
AAB205	Voice & Movement 2	8	3
AAB206	Stagecraft 1	8	4
AAB208	Elements of Drama	12	4
AAB209	Introductory Theatre Studies	8	4
AAB211	Development of Theatre 1	8	3
AAB225	Practicum 1	12	-

**Major (96 credit points)**

As for the minor program plus the following:

AAB214	Drama Process	8	3
AAB220	Theatre Studies Option	8	2
AAB302	Children's Play to Performance	8	3

**Extended Major (120 credit points)**

As for the major program plus the following:

AAB212	Development of Theatre 2	8	3
AAB304	Forming Knowledge	8	3
AAB305	Advanced Drama Process	8	4

**EARTH SCIENCE****Minor (72 credit points)**

ESB122	Earth Science 1	12	5
ESB222	Earth Science 2	12	5
SCB222	Exploration of the Universe	12	4

Plus three (36 credit points) elective Earth Science subjects or Earth Science related subjects selected in consultation with the BEd Science Strand Coordinator.

**Major (96 credit points)**

As for the minor program plus two (24 credit points) elective Earth Science subjects or Earth Science related subjects selected in consultation with the BEd Science Strand Coordinator.

**Extended Major (120 credit points)**

As for the major plus two (24 credit points) elective Earth Science subjects or Earth Science related subjects selected in consultation with the BEd Science Strand Coordinator.

**ECONOMICS****Minor (72 credit points)**

EPB111	Comparative Economic Systems	12	3
EPB114	Economic Development	12	3
EPB140	Macroeconomics	12	3
EPB142	Macroeconomic Theory	12	3
EPB150	Microeconomics	12	3
EPB152	Microeconomic Theory	12	3

**Major (96 credit points)**

As for the minor program plus two additional electives:

EPB106	Australian Economic History	12	3
EPB132	International Trade & Finance	12	3
EPB141	Macroeconomic Policy	12	3
EPB151	Microeconomic Policy	12	3
EPB163	Research & Survey Methods	12	3

**ENGLISH****Minor (72 credit points)**

HUB100	Approaches to Cultural Studies	12	3
HUB101	Australian Literary Studies	12	3
LAB320	Studies in Language	12	3
MJB140	The Media & Society	12	3

Plus two of the following electives:

HUB102	Modern British Literature	12	3
HUB103	Nineteenth Century Literature	12	3
HUB104	American Literature	12	3
HUB105	Shakespeare in the Elizabethan World	12	3
HUB108	Classical & Medieval Literature	12	3
HUB109	Narrative & Social Context	12	3
LAB321	Writing Workshop	12	3
LAB322	Literature in Teaching	12	3
LAB323	Adolescent & Young Adult Fiction	12	3

**Major (96 credit points)**

As for the minor program plus two additional electives.

**Extended Major (120 credit points)**

As for the major program plus two additional electives.

**FILM AND MEDIA****Minor (72 credit points)**

MJB100	Media Production	12	3
MJB126	Video Production	12	3
MJB130	Media Text Analysis	12	3
MJB140	The Media & Society	12	3
MJB141	Film Language	12	3

Plus one of the following electives:

MJB109	Australian Television	12	3
MJB142	Film & Society	12	3
MJB143	Australian Film	12	3

**Major (96 credit points)**

As for the minor program plus two additional electives.

**Extended Major (120 credit points)**

As for the major program plus two additional electives from the following:

MJB107	Gender & the Media	12	3
MJB147	Film Genres	12	3
MJB149	Film History	12	3

**FRENCH****Minor (72 credit points)**

HUB317	Modern European Studies	12	3
HUB318	European Cultural History	12	3
HUB400	French Language 1	12	3
HUB401	French Language 2	12	3
HUB402	French Language & Literature 1	12	3
HUB403	French Language & Literature 2	12	3

**Major (96 credit points)**

As for the minor program plus the following:

HUB404	French Language & Literature 3	12	3
HUB405	French Language & Literature 4	12	3

**GEOGRAPHY****Minor (72 credit points)**

HUB200	Introduction to Cultural Geography	12	3
HUB201	People & the Natural Environment 1	12	3
HUB202	Introduction to Geography	12	3

Plus three of the following electives:

HUB203	People & the Natural Environment 2	12	3
HUB204	Australian Geographical Studies	12	3
HUB205	Living in Cities	12	3
HUB206	Advanced Geographical Techniques	12	3
HUB207	Environmental Hazards	12	3
HUB208	Asian Geographical Studies	12	3
HUB209	Resources Planning & Development	12	3
HUB210	Advanced Urban Studies	12	3
HUB503	Australia & Third World Issues	12	3

**Major (96 credit points)**

As for the minor program plus two additional electives.

**Extended Major (120 credit points)**

As for the major program plus two additional electives.

**GERMAN****Minor (72 credit points)**

HUB317	Modern European Studies	12	3
HUB318	European Cultural History	12	3
HUB412	German Language 1	12	3
HUB413	German Language 2	12	3
HUB414	German Language & Literature 1	12	3
HUB415	German Language & Literature 2	12	3

**Major (96 credit points)**

As for the minor program plus the following:

HUB416	German Language & Literature 3	12	3
HUB417	German Language & Literature 4	12	3

**HEALTH STUDIES****Minor (72 credit points)**

HMB306	Interpersonal & Group Dynamics	12	3
HMB305	Personal Health	12	3
PUB327	Health Issues in Australia	12	3
PUB328	Contemporary Influences on Health Status	12	3
PUB329	Foundations of Health Studies & Health Behaviour	12	3
SSB922	Social & Cultural Aspects of Health	12	3

**Major (96 credit points)**

As for the minor program plus two of the following:

HMB332	Health Related Fitness	12	3
HMB333	Child & Adolescent Health	12	3
PUB334	Food for Health	12	3
PUB335	Occupational & Environmental Health	12	3
PUB336	Women's Health	12	3
PUB337	Health Needs of Specific Populations	12	3
SSB	Health & the Life-cycle	12	3
PUB338	Substance Use in Contemporary Society	12	3
SSB807	Human Sexuality	12	3

## HISTORY

### Minor (72 credit points)

HUB300	Modern Political Ideologies	12	3
HUB301	Australian Studies	12	3
HUB315	Introduction to History	12	3

Plus three of the following electives:

HUB302	The Emergence of Civilisation	12	3
HUB303	The Classical World	12	3
HUB304	Modern China & Japan	12	3
HUB305	Modern India & South-east Asia	12	3
HUB306	European Studies 1	12	3
HUB307	European Studies 2	12	3
HUB308	American Studies	12	3
HUB309	Women in Australian History	12	3
HUB310	History Seminar	12	3
HUB502	Aboriginal Culture Studies	12	3
HUB503	Australia & Third World Issues	12	3
HUB508	Pacific Island History (since 1945)	12	3

### Major (96 credit points)

As for the minor program plus two additional electives.

### Extended Major (120 credit points)

As for the major program plus two additional electives.

## HOME ECONOMICS

### Minor (72 credit points)

PUB311	Home Economics: Conceptual Foundations	8	3
PUB313	Design	8	3
PUB315	Home Economics: Science Foundations	8	4
PUB317	Management & Consumer Studies	8	4
PUB319	Food & Nutrition	12	6
PUB321	Textiles 1	12	6
PUB323	Home Economics: Social Foundations	8	4
PUB325	Shelter Studies	8	4

### Major (96 credit points)

As for the minor program plus two of the following electives.

PUB331	Shelter Design	12	4
PUB333	Shelter: Cultural & Historical Contexts	12	4
PUB345	Family Relationships	12	4
PUB347	Families in Other Cultures	12	4
PUB349	Families & Households in Australia	12	4
PUB353	Consumer Food	12	4
PUB355	Food Service: Principles & Practices	12	4
PUB357	Nutrition Issues in Australia	12	4
PUB361	Textiles 2	12	4
PUB363	Consumer Textiles	12	3
PUB365	Evolution of Western Dress	12	3
PUB367	Menswear 1	12	4
PUB381	Introduction to Apparel Design & Production	12	4
PUB474	Food Studies	12	5
SSB805	Personal & Interpersonal Change	12	4
SSB807	Human Sexuality	12	4

### Extended Major (120 credit points)

As for the major program plus two additional electives.

**HUMAN RELATIONSHIPS EDUCATION****Minor (72 credit points)**

HUB005	Social Ethics & Human Relationships	12	4
SSB805	Personal & Interpersonal Change	12	4
SSB806	Interpersonal & Group Processes	12	4
SSB807	Human Sexuality	12	4
SSB816	Human Relationships: A Sociological Perspective	12	4
	An Approved Elective	12	4

**Major (96 credit points)**

As for the minor program plus 24 credit points from approved electives.

**ITALIAN****Minor (72 credit points)**

HUB317	Modern European Studies	12	3
HUB318	European Cultural History	12	3
HUB406	Italian Language 1	12	4
HUB407	Italian Language 2	12	4
HUB408	Italian Language & Literature 1	12	3
HUB409	Italian Language & Literature 2	12	3

**Major (96 credit points)**

As for the minor program plus the following:

HUB410	Italian Language & Literature 3	12	3
HUB411	Italian Language & Literature 4	12	3

**LEGAL STUDIES****Minor (72 credit points)**

JSS001	The Law & Legal Institutions	12	3
JSS005	Individual Legal Responsibilities	12	3
LWB102	Law of Contract	12	3
LWB103	Law of Torts	12	3
LWB202	Criminal Law & Procedure	12	3

Plus one of the following electives:

ALB107	Legal Environment of Business	12	3
LWB101	Introduction to Law	12	3

**Major (96 credit points)**

ALB101	Commercial Law	12	3
ALB107	Legal Environment of Business	12	3
JSS001	The Law & Legal Institutions	12	3
JSS005	Individual Legal Responsibilities	12	3
LWB101	Introduction to Law	12	3
LWB102	Law of Contract	12	3
LWB103	Law of Torts	12	3
LWB202	Criminal Law & Procedure	12	3

**MATHEMATICS****Minor (72 credit points)**

MAB212	Mathematics 1	12	3
MAB222	Mathematics 2	12	3
MAB237	Statistics	12	3
MAB422	Topics in Mathematics	12	3

Plus two (24 credit points) elective Mathematics subjects selected in consultation with the Mathematics Strand Coordinator.

**Major (96 credit points)**

As for the minor program plus an additional two (24 credit points) elective Mathematics subjects selected in consultation with the Mathematics Strand Coordinator.

**Extended Major (120 credit points)**

As for the major program plus an additional (24 credit points) elective Mathematics subjects selected in consultation with the Mathematics Strand Coordinator.

**PHYSICAL EDUCATION****Minor (72 credit points)**

HMB309	Motor Development & Skill Acquisition	12	5
HMB314	Performance Skills 1	12	6
HMB315	Performance Skills 2	12	6
HMB316	Performance Skills 3	12	6

Plus two of the following level 1 electives:

HMB311	Anatomy & Biomechanics	12	4
HMB312	Exercise Physiology	12	5
HMB313	Foundations of Physical Education	12	4

**Major (96 credit points)**

As for the minor program plus two of the following level 2 electives:

HMB317	Outdoor Education	12	6
HMB318	Research in Movement Studies	12	3
HMB319	Sports Psychology	12	3
HMB321	Sociology of Sport	12	3
HMB322	Adapted Physical Education	12	3
HMB323	Sport & Fitness Development	12	3
HMB324	Advanced Skill Laboratories 1	12	3
HMB325	Independent Study	12	3
HMB326	Human Performance Analysis	12	3
HMB327	Computers in Sport & Physical Education	12	3
HMB328	Comparative Physical Education	12	3
HMB329	Anthropology of Play	12	3
HMB334	Functional Anatomy & Kinesiology	12	3
HMB335	Individual Games & Sports	12	4
HMB336	Leisure & Australians	12	3
HMB442	Administration of Physical Education & Sport	12	3
PUB327	Health Issues in Australia	12	3

**Extended Major (120 credit points)**

As for the major program plus the additional level 1 elective and an additional level 2 elective.

**PHYSICS****Minor (72 credit points)**

PHB122	Physics 1	12	5
PHB222	Physics 2	12	5
MAB212	Mathematics 1	12	4

Plus three (36 credit points) elective Physics or Physics related subjects selected in consultation with the BEd Science Strand Coordinator.

**Major (96 credit points)**

As for the minor program plus two (24 credit points) elective Physics or Physics related subjects selected in consultation with the BEd Science Strand Coordinator.

**Extended Major (120 credit points)**

As for the major program plus two (24 credit points) elective Physics or Physics related subjects selected in consultation with the BEd Science Strand Coordinator.



**SCIENCE STUDIES****Minor (72 credit points)**

LSB122	Biology 1	12	5
CHB182	Chemistry 1	12	5
PHB122	Physics 1	12	5
ESB122	Earth Science 1	12	5
	OR		
SCB222	Exploration of the Universe	12	4

Plus two of the following electives:

LSB242	Human Anatomy & Physiology	12	5
	OR		
LSB222	Biology 2	12	5
CHB282	Chemistry 2	12	5
PHB222	Physics 2	12	5
ESB222	Earth Science 2	12	5
	OR		
SCB222	Exploration of the Universe	12	4

Students without a Sound Achievement in Senior Biology, Chemistry or Physics need to take the respective co-requisite Introductory Biology, Chemistry or Physics. It is highly recommended that students undertaking any of these introductory subjects consider them as part of their C Strand electives. Subjects must be selected in consultation with the BEd Science Strand Coordinator.

**Major (96 credit points)**

As for minor program plus an additional two (24 credit points) electives listed for the minor. It is highly recommended that students undertaking any of the introductory subjects consider them as part of their C Strand electives. Subjects must be selected in consultation with the BEd Science Strand Coordinator.

**Extended Major (120 credit points)**

As for the Major program plus two (24 credit points) electives from any science subjects selected in consultation with the BEd Science Strand Coordinator.

**SOCIAL SCIENCE****Minor (72 credit points)**

HUB500	Local Community	12	3
HUB501	Introduction to the Social Sciences	12	3
HUB507	Consumerism	12	3

Plus three of the following electives:

HUB204	Australian Geographical Studies	12	3
HUB205	Living in Cities	12	3
HUB300	Modern Political Ideologies	12	3
HUB301	Australian Studies	12	3
HUB502	Aboriginal Culture Studies	12	3
HUB503	Australia & Third World Issues	12	3
HUB504	Contemporary Global Issues	12	3
HUB505	Social Science Seminar	12	3
HUB506	Introduction to Australian Politics	12	3

**Major (96 credit points)**

As for the minor program plus two additional electives.

**Extended Major (120 credit points)**

As for the major program plus two additional electives.

## ■ Bachelor of Teaching (Early Childhood/Primary)

**Location:** Kelvin Grove and Carseldine campuses

**Course Duration:** 3 years full-time

**Total Credit Points:** 288

**Standard Credit Points/Full-time Semester:** 48

**Course Coordinator:** Associate Professor Susan Wright

The Bachelor of Teaching (Early Childhood/Primary) course is a three-year preservice education degree with specialisations in Early Childhood (ED40) and Primary Teaching (ED41). An external Upgrading program (ED42) is also offered in the Early Childhood specialisation.

## □ Bachelor of Teaching (Early Childhood) (ED40)

**Location:** Kelvin Grove campus

**Early Childhood Specialisation Manager:** Mr Rod Campbell

Course Structure		Credit Points	Contact Hrs/Wk
<b>Year 1, Semester 1</b>			
CPB200	Education in the Australian Context	8	3
CUB210	Introduction to Education	20	4
LEB240	Development & Learning 1	12	3
MDB220	Mathematics Foundation	8	3
<b>Year 1, Semester 2</b>			
EAB102	Human Relationships in Early Childhood Education	8	3
EAB111	Early Childhood Curriculum Approaches	12	3.5
EAB141	Physical, Perceptual, Motor Aspects: B-8 years	8	2
EAB151	Teaching Strategies 1: Before School Settings	12	2
Elective	Select from List B	8	2
<b>Year 2, Semester 1</b>			
EAB103	Australian Families & Early Education	8	2
EAB121	Early Childhood Curriculum: Mathematics	8	3
EAB122	Early Childhood Curriculum: Language & Literacy	8	3
EAB142	Language & Cognitive Aspects: B-8 years	8	2
EAB152	Teaching Strategies 2: Years 1-3	12	2
Elective	Select from List A	4	2
<b>Year 2, Semester 2</b>			
EAB104	Early Childhood Teachers & Families	8	2
EAB123	Early Childhood Curriculum: Visual Arts	8	3
EAB124	Early Childhood Curriculum: Drama & Social Education	8	3
EAB143	Social Emotional & Creative Aspects: B-8 years	8	2
EAB153	Teaching Strategies 3	12	2
Elective	Select from List A	4	2
<b>Year 3, Semester 1</b>			
EAB125	Early Childhood Curriculum: Music & Movement	8	3
EAB126	Early Childhood Curriculum: Science/Health Education	8	3
EAB144	Integrating the Exceptional Child in Early Childhood	8	2

Select one of the following:

EAB154	Teaching Strategies 4: Child Care	12	2
EAB155	Teaching Strategies 4: Kindergarten/Preschool	12	2
EAB156	Teaching Strategies 4: Years 1-3	12	2
Elective	Select from List A	4	2
Elective	Select from List B	8	2

### Year 3, Semester 2

EAB105	Early Childhood Education Contexts	8	2
EAB157	Teaching Strategies 5	12	3

Two subjects from the following:

EAB112	Integrated Curriculum for 3-5 Year Olds	12	3
EAB113	Integrated Routines & Learning for Under 3s	12	3
EAB127	Early Childhood Curriculum: Mathematics, Science, Literacy	12	3
Elective	Select from List A	4	2

### 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

#### List A: 4 Credit Point Electives

AAB921	Understanding Art	4	2
AAB922	Painting & Drawing	4	2
AAB923	Printmaking 1	4	2
AAB924	Sculpture	4	2
AAB929	Dance Conditioning & Fitness	4	2
AAB932	Practical Studies B1 (Early Childhood)	4	3
AAB933	Practical Studies B2 (Early Childhood)	4	3
AAB935	Guitar for Beginners	4	1
AAB936	Piano for Beginners	4	1
AAB937	Creative Music Workshop	4	2
EAB163	Graphic Media for Early Childhood Teachers	4	2
EAB164	Early Childhood Choral & Percussion Ensemble	4	2
EAB166	Special Programs for Young Children	4	3
EAB169	Child Care Policies	4	2
EAB171	Management of Early Childhood Services	4	2
EAB174	Projected Visual Media in Early Childhood Settings	4	2
EAB175	Early Childhood Nutrition Planning	4	2
EAB181	Technology in Early Childhood Contexts	4	2
HMB101	Movement for Young Children	4	2
HMB103	Games for Recreation	4	2
HMB104	Personal Health & Fitness	4	2
HMB107	Leisure Education	4	2
LAB003	Study of Language	4	2
MDB101	Personal Computing	4	2
MDB102	Number Enrichment for Young Children	4	2
MDB103	Mathematical Thinking & Problem Solving	4	2
MDB104	Science Models & Toys	4	2
PUB153	Food for Kids	4	2
PUB155	Child Safety	4	2

#### List B: 8 Credit Point Electives

AAB925	Theatre Games	8	2
AAB926	Communication Through Drama	8	2
AAB927	Children's Theatre	8	2
AAB931	National & Folk Dance	8	2
AAB938	Exploring Music	8	2
CPB101	Schools & Communities	8	2
CPB102	Socialisation Through Play	8	2

CUB101	Alternative Education	8	2
CUB102	Legal Issues & the Teacher	8	2
EAB160	ESL in Early Childhood Settings	8	2
EAB161	Cultural Inclusivity in Early Childhood	8	2
EAB162	Education for Transformation - Early Childhood Teachers	8	2
EAB165	Programs for Children Under Three Years	8	3
EAB167	Children's Literature for Early Childhood Settings	8	3
EAB168	Drama for Special Children	8	2
EAB170	Microcomputers in Early Childhood	8	2
EAB172	Parent - Professional Relationships in Early Childhood Settings	8	2
EAB176	Media for Early Childhood Teachers	8	2
EAB180	Dance Education for Young Children	8	2
EAB181	Technology in Early Childhood Contexts	8	2
EAB182	Keyboard Musicianship 1 & 2 (Early Childhood)	8	2
HMB102	Introduction to Human Movement	8	3
HMB105	Outdoor Pursuits	8	3
HMB106	Dance for Recreation	8	3
HMB108	Teaching Games & Sport	8	3
HMB340	Special Physical Education	8	3
HUB205	Living in Cities	12	3
HUB309	Women in History	12	3
HUB501	Introduction to Social Sciences	12	3
HUB502	Aboriginal Culture Studies	12	3
LAB001	The Media & Society	8	3
LAB002	Adult Literacy	8	2
LAB004	Language & Communication	8	2
LAB005	Storytelling in Various Media	8	2
LEB101	Human Sexuality & Learning	8	2
MDB105	Writing & Computers	8	3
MDB106	Problem Solving with Computer Graphics	8	2
SSB101	Environmental Education	8	2

## ☐ External Child Care Upgrading Program (ED42)

**Location:** Kelvin Grove campus

**Course Duration:** 2.5 years external

**Total Credit Points:** 144

### Special Requirements

Applicants for the external upgrading program (equivalent to 18 months of full-time study) are 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
<b>Year 1, Semester 2</b>			
EAB501	Advanced Child Care Development & Learning	16	-
EAB502	Advanced Curriculum Theory & Design for Child Care	16	-

### Year 2, Semester 1

EAB103	Australian Families & Early Education	8	-
EAB503	Teaching Strategies for Child Care	16	-

### Year 2, Semester 2

EAB504	Programs & Teaching Strategies for Children Under Three Years	16	-
EAB505	Learning Teaching & Integrated Curriculum for 3-5 years	16	-

### Summer School

EAB506	Field Project (Children 0-5 years)	16	-
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### Year 3, Semester 1

EAB144	Integrating the Exceptional Child in Early Childhood	8	-
EAB507	Early Childhood Leadership & Management in the Sociocultural Context	16	-

### Year 3, Semester 2

EAB508	Field Project (Children 0-12 years)	16	-
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## ☐ Bachelor of Teaching (Primary) (ED41)

**Location:** Carseldine campus

**Primary Specialisation Manager:** Ms Jan Millwater

### Special Course Requirements

Within primary specialisations 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 Childhood Education, Music Education and Physical Education. Selected students begin these studies in their second year, having applied midway through Semester 2 of Year 1.

Course Structure		Credit Points	Contact Hrs/Wk
<b>Year 1, Semester 1</b>			
CPB200	Education in the Australian Context	8	3
CUB210	Introduction to Education	20	4
LEB240	Development & Learning 1	12	3
MDB220	Mathematics Foundations	8	3
<b>Year 1, Semester 2</b>			
EDB251	Practice Teaching 1	8	-
LAB223	Language Education 1*	8	3
LEB241	Development & Learning 2*	8	3
MDB221	Science Foundations	8	3
MDB222	Mathematics Education 1	8	3
	Two subjects selected from List A	16	
<b>Year 2, Semester 1</b>			
EDB252	Practice Teaching 2	8	-
LAB223	Language Education 1*	8	3
LEB241	Development & Learning 2*	8	3
MDB228	Science Education	8	3
	Three subjects selected from List A	32	

\* These subjects are compulsory; they must be taken in alternate semesters and quotas will apply.

## Year 2, Semester 2

CPB201	Education & Society	12	3
CUB211	Teaching as Managing Learning	8	3
EDB253	Practice Teaching 3	8	-
LAB230	Language Education 2	12	3
One subject selected from List B: Disciplines Electives 1		8	

## Year 3, Semester 1

EDB254	Practice Teaching 4	12	-
MDB231	Mathematics Education 2	12	4

24 credit points to be selected from the following:

CPB202	Education & Change*	8	3
CUB212	Teachers as Curriculum Decision Makers*	12	3
Subject(s) from List C: Professional Electives			
Subject(s) from List D: Curriculum Electives			
Subject(s) from List E: Discipline Electives 2			
Subject(s) from List F: Discipline Electives 3			

## Year 3, Semester 2

EDB255	Practice Teaching 5	12	-
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36 Credit Points to be selected from the following:

CPB202	Education & Change*	8	3
CUB212	Teachers as Curriculum Decision Makers*	12	3
Subject(s) from List C: Professional Electives			
Subject(s) from List D: Curriculum Electives			
Subject(s) from List E: Discipline Electives 2			
Subject(s) from List F: Discipline Electives 3			

Electives		Credit Points	Contact Hrs/Wk
<b>List A</b>			
AAB901	Art Education	8	5
AAB906	Music Education 1	8	3
HMB201	Physical Education 1	8	3
HMB240	Health Education	8	3
SBB229	Social Education	8	3
<b>List B: Disciplines Electives 1</b>			
AAB902	Visual Arts 1	8	3
AAB908	Performing Arts 1	8	3
EAB280	Early Childhood 1	8	3
HMB203	Foundations of Physical Activity	8	3
HUB418	LOTE 1	8	3
LAB260	Literature & Education 1	8	3
MDB260	Structure in Mathematics	8	3
MDB261	Earth & Space	8	3
PUB241	Health Studies 1	8	3
SBB260	Social Sciences 1	8	3
<b>List C: Professional Electives</b>			
CPB280	Educational Leadership	8	3
CPB281	Ethnicity & Racism in Education	8	3
CPB282	Policy Issues in Education	8	3
CUB280	Equity as a Curriculum Issue	8	3
CUB281	Negotiated Study in Teaching	8	3
CUB282	Managing Exceptional Children	8	3
LEB280	Development & Learning Elective	8	3

\* These subjects are compulsory; they must be taken in alternate semesters and quotas will apply.

**List D: Curriculum Electives**

AAB905	Drama Education	8	3
AAB907	Music Education 2	8	3
EAB283	Early Childhood Education	8	3
HMB202	Physical Education 2	8	3
LAB270	LOTE Education	8	3
LEB270	Human Relationships Education	8	3
MDB270	Computer Education	8	3
SBB230	Environmental Education	8	3

**List E: Disciplines Electives 2**

AAB903	Visual Arts 2	12	3
AAB909	Performing Arts 2	12	3
EAB281	Early Childhood 2	12	3
HMB204	Physical Activity Studies 1	12	3
HMB242	Health Studies 2	12	3
HUB419	LOTE 2	12	3
LAB261	Literature & Education 2	12	3
LSB340	Science & Survival	12	3
MDB262	History of Mathematics	12	3
SBB261	Social Sciences 2	12	3

**List F: Discipline Electives 3**

AAB904	Visual Arts 3	12	3
AAB910	Performing Arts 3	12	3
EAB282	Early Childhood 3	12	3
HMB205	Physical Activity Studies 2	12	3
HMB243	Health Studies 3	12	3
LAB262	Literature & Education 3	12	3
LAB271	LOTE 3	12	3
LSB341	Biology & Technology	12	3
MDB263	Applications in Mathematics	12	3
SBB262	Social Sciences 3	12	3





# FACULTY OF HEALTH

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# FACULTY OF HEALTH

## Course Structures

### ■ Master of Nursing (NS85)

**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 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 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.

#### Special Course Requirements

Students are 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 1992: Medical/Surgical Nursing, Primary Health Care Nursing, Psychiatric/Mental Health Nursing, Midwifery, Child and Adolescent Nursing and Gerontological Nursing.

Advanced Nursing areas offered in 1992: Management, Education and Clinical.

#### Full-Time Course Structure

		Credit Points	Contact Hrs/Wk
<b>Year 1, Semester 1</b>			
LSN150	Epidemiology & Research Strategies	12	3
NSN401	Strategies for Nursing Research*	12	3
PUN601	Contemporary Health Care Issues	12	3
PUN602	Health Planning, Management & Evaluation	12	3

\* Subject extends over two semesters.

**Year 1, Semester 2**

NSN401	Strategies for Nursing Research*	}	select one	12	3
NSN105	Medical/Surgical Nursing 1				
NSN108	Primary Health Care Nursing 1				
NSN111	Psychiatric/Mental Health Nursing 1				
NSN114	Midwifery 1				
NSN117	Gerontological Nursing 1	}	select one	12	3
NSN120	Child & Adolescent Nursing 1				
NSN106	Medical/Surgical Nursing 2				
NSN109	Primary Health Care Nursing 2				
NSN112	Psychiatric/Mental Health Nursing 2				
NSN115	Midwifery 2	}	select one	12	3
NSN118	Gerontological Nursing 2				
NSN121	Child & Adolescent Nursing 2				
NSN107	Medical/Surgical Nursing 3				
NSN110	Primary Health Care Nursing 3				
NSN113	Psychiatric/Mental Health Nursing 3	}	select one	12	3
NSN116	Midwifery 3				
NSN119	Gerontological Nursing 3				
NSN122	Child & Adolescent Nursing 3				
NSN301	Advanced Nursing Education 1				
NSN304	Advanced Nursing Management 1	}	select one	12	3
NSN307	Advanced Nursing Clinical 1				

**Year 2, Semester 1**

NSN302	Advanced Nursing Education 2	}	select one	12	3
NSN305	Advanced Nursing Management 2				
NSN308	Advanced Nursing Clinical 2				
NSN303	Advanced Nursing Education 3	}	select one	12	3
AYN101	Accounting Principles				
NSN309	Advanced Nursing Clinical 3	}	select one	12	3
NSN403	Dissertation 1				
NSN404	Dissertation 2				

**Part-Time Course Structure**

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

**Year 1, Semester 1**

PUN601	Contemporary Health Care Issues	12	3
NSN401	Strategies for Nursing Research*	6	1.5

**Year 1, Semester 2**

NSN401	Strategies for Nursing Research*	6	1.5		
NSN105	Medical/Surgical Nursing 1	}	select one	12	3
NSN108	Primary Health Care Nursing 1				
NSN111	Psychiatric/Mental Health Nursing 1				
NSN114	Midwifery 1				
NSN117	Gerontological Nursing 1				
NSN120	Child & Adolescent Nursing 1	}	select one	12	3
NSN106	Medical/Surgical Nursing 2				
NSN109	Primary Health Care Nursing 2				
NSN112	Psychiatric/Mental Health Nursing 2				
NSN115	Midwifery 2				
NSN118	Gerontological Nursing 2	}	select one	12	3
NSN121	Child & Adolescent Nursing 2				

**Year 2, Semester 1**

LSN150	Epidemiology & Research Strategies	12	3
PUN602	Health Planning, Management & Evaluation	12	3

\* Subject extends over two semesters.

### Year 2, Semester 2

NSN107	Medical/Surgical Nursing 3	}	select one	12	3
NSN110	Primary Health Care Nursing 3				
NSN113	Psychiatric/Mental Health Nursing 3				
NSN116	Midwifery 3				
NSN119	Gerontological Nursing 3				
NSN122	Child & Adolescent Nursing 3	}	select one	12	3
NSN301	Advanced Nursing Education 1				
NSN304	Advanced Nursing Management 1				
NSN307	Advanced Nursing Clinical 1				

### Year 3, Semester 1

AYN101	Accounting Principles (Management 3)	}	select one	12	3
NSN302	Advanced Nursing Education 2				
NSN308	Advanced Nursing Clinical 2				
NSN403	Dissertation 1			12	3

### Year 3, Semester 2

NSN303	Advanced Nursing Education 3	}	select one	12	3
NSN305	Advanced Nursing Management 2				
NSN309	Advanced Nursing Clinical 3				
NSN404	Dissertation 2			12	3

## ■ Master of Public Health (PU85)

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:** Mr Paul Hindson

### 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:
  - (i) holds a bachelor degree from the university or a similar qualification from an approved institution in the health, behavioural, social or biological sciences:
    - (a) with first or second class honours;
    - (b) which required study for at least four years; or
    - (c) 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 Academic Board that the applicant should be accepted as a candidate; and

(ii) has, since obtaining the qualifications required, had training or experience in a relevant field for a period of at least:

(a) three years, where the applicant seeks entry through paragraph (i) (c) (B);  
or

(b) two years, otherwise.

(2) The Dean may allow a person to be admitted as a candidate, if of the opinion:

(i) that a person has obtained a basic professional qualification in the health, behavioural, social or biological sciences in that person's home country;

(ii) 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

(iii) 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 Academic 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 Directorate of the MPH program (located at the Medical School in Herston).

### **Course of Study**

(1) A candidate must:

(i) pursue the course (full-time) for not less than three nor more than six semesters; and

(ii) obtain 144 credit points (48 per semester F/T, 24 P/T) comprising:

(a) credit for all subjects listed in Part A of the Schedule (core subjects)

(b) 36 credit points from subjects listed in Part B of the Schedule (electives);  
and

(c) credit for PUN607 Dissertation (48 credit points)

(2) The Dean of Health may grant credit for a core subject if the Director considers the candidate has, while enrolled in this course, passed a subject or subjects at least its equivalent in content and standard at any of the three collaborating institutions.

### **Credit for a Subject**

To obtain credit for a subject a candidate must:

(i) attend lectures, seminars, tutorials, practicals and other classes;

(ii) undertake laboratory and fieldwork;

(iii) complete assignments, project reports and theses;

(iv) pass examinations; and

- (v) fulfil any other requirement in the manner and to the extent prescribed by the Director concerned.

### **Dissertation**

- (1) A candidate may not submit a dissertation for PUN607 without approval of the topic by the Director of the program after consultation with the supervisors.
- (2) The dissertation must be examined by two examiners appointed by the Director.
- (3) A candidate may, with the approval of the Director, submit further original work, whether published or not, for the consideration of the examiners.
- (4) The Director shall determine whether credit will be awarded for the dissertation after considering the reports of the examiners.

### **Power of the Faculty Board to Terminate Enrolment**

The Faculty Academic Board may, at any time, terminate a candidate's enrolment if it is of the opinion that the candidate has supplied incomplete or inaccurate information with respect to application for enrolment.

### **Grant of Degree**

The degree of the Master of Public Health may be conferred on a candidate who has fulfilled the requirements of these rules and complied with the provisions of all Statutes and other applicable rules.

### **Course structure**

Full-time students in the program undertake a coursework component in their first two semesters (or four semesters part-time - two subjects per semester), followed by a dissertation component of one semester (or two semesters part-time). The coursework component comprises five core subjects and three advanced elective subjects.

## **PART A**

### **Core Subjects**

PUN602	Health Planning, Management & Evaluation	(QUT)
PUN603	Environmental & Occupational Health	(GU)
PUN604	Principles of Epidemiology	(UQ)
PUN605	Statistical Methods & Computing	(UQ)
PUN606	Social & Behavioural Sciences in Public Health	(GU)

## **PART B**

### **Advanced elective subjects offered by QUT**

		<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
LWS006	Health, Ethics & the Law	12	3
PUN608	Economics & Health	12	3
PUN609	Health Care Finance	12	3
PUN610	Health Services Management	12	3
PUN611	Advanced Health Planning	12	3
PUN612	Advanced Health Evaluation	12	3

(Additional elective subjects are offered by other collaborating universities.)

## **PART C**

Dissertation – the dissertation is equivalent to an honours dissertation in type and scope and is expected to be between 10000 and 20000 words in length.

## ■ Graduate Diploma in Advanced Nursing Practice (NS62)

**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 Karen Stolz

### 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 Nursing course.

### Special Course Requirements

Students are 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 1992: 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 1992.

Full-Time Course Structure		Credit Points	Contact Hrs/Wk
<b>Year 1, Semester 1</b>			
NSN102	Concepts for Advanced Clinical Nursing	12	3
NSN103	Research Methods in Nursing	12	3
PUN601	Contemporary Health Care Issues	12	3
NSN105	Medical/Surgical Nursing 1	12	3
	OR		
NSN108	Primary Health Care Nursing 1	12	3
	OR		
NSN111	Psychiatric/Mental Health Nursing 1	12	3
<b>Year 1, Semester 2</b>			
NSN104	Professional Issues in Nursing	12	3



NSN106	Medical/Surgical Nursing 2	12	3
NSN107	Medical/Surgical Nursing 3	12	3
	OR		
NSN109	Primary Health Care Nursing 2	12	3
NSN110	Primary Health Care Nursing 3	12	3
	OR		
NSN112	Psychiatric/Mental Health Nursing 2	12	3
NSN113	Psychiatric/Mental Health Nursing 3	12	3

### Part-Time Course Structure

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

#### Year 1, Semester 1

PUN601	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 1	12	3
	OR		
NSN108	Primary Health Care Nursing 1	12	3
	OR		
NSN111	Psychiatric/Mental Health Nursing 1	12	3

#### Year 2, Semester 1

NSN103	Research Methods in Nursing	12	3
NSN106	Medical/Surgical Nursing 2	12	3
	OR		
NSN109	Primary Health Care Nursing 2	12	3
	OR		
NSN112	Psychiatric/Mental Health Nursing 2	12	3

#### Year 2, Semester 2

NSN107	Medical/Surgical Nursing 3	12	3
	OR		
NSN110	Primary Health Care Nursing 3	12	3
	OR		
NSN113	Psychiatric/Mental Health Nursing 3	12	3
	Elective(s)	12	3

### Electives

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

LSN116	Human Factors	12	3
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
PUN101	Environmental Health	6	1.5
PUN102	Nutrition & Lifestyle	6	1.5
PUP115	Occupational Health & Safety Administration 1	12	3
PUP250	Occupational Hygiene	12	3

\* Sufficient enrolments are required for any particular subject to be held.

## ■ Graduate Diploma in Health Science (Health Education) (PU68)

**Location:** Kelvin Grove campus

**Course Duration:** 2 years part-time internal and external

**Total Credit Points:** 96

**Standard Credit Points/Full-Time Semester:** 48

**Course Coordinator:** Dr Mary-Lou O'Connor

### Entry Requirements

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

- (i) an approved degree/diploma, or General Nursing Certificate and two post-basic nursing certificates or equivalent; and
- (ii) 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 PUP027 Independent Study (12 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
<b>Year 1, Semester 1</b>			
PUP010	Health & Lifestyle in Australia	12	3
SSP850	Communication Theory & Skills	12	3
<b>Year 1, Semester 2</b>			
PUP012	Research & Evaluation	12	3
HMP014	School Health Education	12	3
	OR		
PUP016	Community Health Education	12	3
<b>Year 2, Semester 1</b>			
PUP007	Epidemiology & Environmental Health	12	3
PUP013	Health Education & the Change Process	12	3
<b>Year 2, Semester 2</b>			
HMP015	School Health Program Planning	12	3
	OR		
PUP017	Community Health Program Planning	12	3
Elective	Select from List		
<b>ELECTIVES</b>			
PUP020	Health Promotion Strategies for Dietitians	12	3
PUP019	Issues in Health Advancement	12	3
PUP027	Independent Study	12	-
SSP543	Health Psychology	12	3

## ■ Graduate Diploma in Nutrition and Dietetics (PU62)

**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 level.

#### SPECIAL ENTRY

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

### 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, School of Public Health, by letter when lodging the application for admission.

### Special Course Requirements

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

	<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
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#### Year 1, Semester 1

PUP109	Nutrition	12	5
PUP110	Nutritional Epidemiology	12	5
PUP126	Clinical Dietetics 1	12	5
SSP850	Communication Theory & Skills	12	3
	OR		
LSB558	Applied Physiology	12	5

#### Year 1, Semester 2

PUP127	Clinical Dietetics 2	12	5
PUP128	Practical Dietetics	12	5

PUP129	Food Service & Dietetic Management	12	5
PUP020	Health Promotion Strategies for Dietitians	12	3
<b>Year 2, Semester 1</b>			
PUP132	Practice in Food Service Management	12	3 wks
PUP122	Practice in Clinical Dietetics	24	11 wks
PUP123	Practice in Community Nutrition	12	4 wks

## ■ Graduate Diploma in Occupational Health and Safety (PU65)

**Location:** Gardens Point campus

**Course Duration:** 2 years part-time

**Total Credit Points:** 96

**Standard Credit Points/Full-Time Semester:** 48

**Course Coordinator:** Mr Terry Farr

### 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 is 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
<b>Year 1, Semester 1</b>			
LSN116	Human Factors	12	3
PUP115	Occupational Health & Safety Administration 1	12	3
<b>Year 1, Semester 2</b>			
MEP201	Safety Technology & Practice 1	12	3
PUP215	Occupational Health & Safety Administration 2	12	3
<b>Year 2, Semester 1</b>			
PUP250	Occupational Hygiene	12	3
MEP301	Safety Technology & Practice 2	12	3

## Year 2, Semester 2

PUP415	Occupational Health	12	3
PUP416	Occupational Health & Safety Project	12	

## ■ Bachelor of Applied Science (Environmental Health) (PU42)

**Location:** Gardens Point campus

**Course Duration:** 3 years full-time

**Total Credit Points:** 288

**Standard Credit Points/Full-Time Semester:** 48

**Course Coordinator:** Mr Bruce Fleming

### Professional Recognition

Graduates are eligible for membership of the Australian Institute of Environmental Health 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 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. Arrangements to complete the course through a 'sandwich' program can be discussed with the course coordinator. This method of attendance is relevant to students living outside the Brisbane region and those who are employed as trainee Environmental Health Officers. Trainee Environmental Health Officers are 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 to 4 no longer offered)	Credit Points	Contact Hrs/Wk
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### Semester 5

CNB013	Building Services 1 - HVAC	4	2
PLS102	Introduction to Town Planning	2	2
PUB205	Environmental Health 5	30	16
PUB210	Occupational Health & Safety 1	8	4
SSB903	Sociology for Health Professionals	6	3

### Semester 6

PUB206	Environmental Health 6	30	16
PUB211	Occupational Health & Safety 2	8	4
SSB904	Sociology of Health & Illness	6	3
SSB914	Psychology	4	3

<b>Full-Time Course Structure (Commencing 1992)</b>		<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
<b>Year 1, Semester 1</b>			
CHB142	Chemistry 1	12	6
LSB122	Biology 1	12	5
PHB150	Physics 1H	12	6
PUB207	Introduction to Environmental Health	12	4
<b>Year 1, Semester 2</b>			
CHB242	Chemistry 2	12	6
MAB152	Quantitative Methods	8	3
PHB263	Physics 2E	12	6
PUB300	Pollution Science 1	8	4
SSB914	Psychology	8	3
<b>Year 2, Semester 1</b>			
CNB151	Construction 1	12	6
CNB173	Material Science 1	4	2
CNB175	Structures 1	4	2
ISB382	Microcomputer Applications	8	3
LSB242	Anatomy & Physiology	12	5
LSB301	Microbiology 1	8	3
<b>Year 2, Semester 2</b>			
CNB172	Construction 2	8	4
CNB174	Material Science 2	4	2
CNB176	Structures 2	4	2
LSB431	Microbiology 2	8	3
PUB481	Pollution Science 2	12	5
PUB478	Food Science & Technology	12	3
<b>Year 3 Semester 1</b>			
CNB013	Building Services HVAC	4	2
PUB210	Occupational Health & Safety 1	8	4
PUB513	Epidemiology & Disease	12	6
PUB518	Food Hygiene Studies	8	4
PUB520	Environmental Health & Management 1	12	5
SVB101	Surveying & Measuring	4	2
<b>Year 3, Semester 2</b>			
PUB211	Occupational Health & Safety 2	8	4
PUB620	Environmental Health Management 2	12	6
PUB621	Environmental Health Practice	12	6
PUB622	Environmental Health Project	8	4
CNB243	Law 1 - Building Acts & Regulations	5	2
CNB345	Hygiene & Sanitation	6	3

**Note:** Students who commenced this degree in 1991 should contact the Course Coordinator to review details of their enrolment program for 1992.

## ■ Bachelor of Applied Science (Home Economics) (PU49)

**Location:** Kelvin Grove campus

**Course Duration:** 3 years full-time

**Total Credit Points:** 288

**Course Coordinator:** Mr Claus Jehne

Course Structure		Credit Points	Contact Hrs/Wk
<b>Year 1, Semester 1</b>			
BSB102	Management & Organisation	12	3
CHB001	Introduction to Chemistry	6	3
PHB144	Applied Science for Designers 1	6	3
PUB274	Home Economics - Social Issues	12	4
SSB803	Social Psychology	12	3
<b>Year 1, Semester 2</b>			
CHB259	Organic Chemistry	12	5
LSB405	Microbiology	12	5
PUB272	Home Economic Consumer Studies	12	4
PUB276	Design Studies	12	4
<b>Year 2, Semester 1</b>			
LSB242	Human Anatomy & Physiology	12	5
LSB305	Biochemistry	12	5
PUB372	Shelter	12	4
PUB374	Family Studies	12	4
PUB376	Practicum 1		
<b>Year 2, Semester 2</b>			
PUB472	Textile Science	12	4
PUB474	Food Studies	12	6
PUB476	Nutrition	12	4
PUB478	Food Science & Technology	12	4
<b>Year 3 Semester 1</b>			
PUB572	Apparel Design	12	5
PUB574	Family Resource Management	12	3
	Elective	12	
	Elective	12	
PUB576	Practicum 2		
<b>Year 3, Semester 2</b>			
PUB672	Research Methods	12	3
PUB674	Business Organisations	12	3
	Elective	12	
	Elective	12	
<b>Electives</b>		<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
PUB328	Contemporary Influences on Health Status	12	3
PUB331	Shelter Design	12	4
PUB333	Shelter: Cultural & Historical Contexts	12	4
PUB334	Food for Health	12	3
PUB336	Women's Health	12	4
PUB345	Family Relationships	12	4
PUB347	Families in Other Cultures	12	4
PUB349	Families and Households in Australia	12	4
PUB353	Consumer Food	12	4
PUB355	Food Service: Principles and Practices	12	4
PUB357	Nutrition Issues in Australia	12	4
PUB361	Textiles 2	12	4
PUB363	Consumer Textiles	12	3
PUB365	Evolution of Western Dress	12	3
PUB367	Menswear 1	12	4
PUB369	Textiles: Supervised Project	12	3
PUB381	Introduction to Apparel Design and Production	12	4
PUB440	Clothing Design	12	4

PUB441	Nutrition Education	12	3
PUB540	Home Economics Counselling	12	3
PUB542	Advanced Counselling Skills	12	3
PUB546	Sociology of Public Health	12	3
PUB552	Social Nutrition	12	4
PUB554	Food Management for Families	12	5
PUB556	Food Production & Presentation	12	6
PUB560	Textile Marketing	12	3
PUB582	Advanced Apparel Design	12	4
PUB590	Product Development	12	3
PUB592	Independent Home Ec. Study 1	12	1
PUB594	Independent Home Ec. Study 2	12	1

Plus approved subjects from courses offered by other Schools.

**Note:** Students who commenced this course prior to 1992 should contact the Course Coordinator for details of their enrolment program in 1992.

## ■ **Bachelor of Applied Science (Occupational Health and Safety) (PU44)**

**Location:** Gardens Point campus

**Course Duration:** 3 years full-time

**Total Credit Points:** 288

**Standard Credit Points/Full-Time Semester:** 48

**Course Coordinator:** Mr Terry Farr

<b>Full-Time Course Structure</b>		<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
<b>Year 1, Semester 1</b>			
CHB142	Chemistry 1	12	6
HRB131	Personnel Management & Industrial Relations	12	3
PHB150	Physics 1H	12	6
PUB212	Occupational Health & Safety 1	12	4
<b>Year 1, Semester 2</b>			
CHB242	Chemistry 2	12	6
MAB152	Quantitative Methods	8	3
PHB263	Physics 2E	12	6
PUB211	Occupational Health & Safety 2	8	4
SSB914	Psychology	8	3
<b>Year 2, Semester 1 (For students commencing the course prior to 1992 only)</b>			
LSB242	Anatomy & Physiology	12	6
LSB301	Microbiology 1	8	3
MEB035	Safety Technology 1	12	4
PUB211	Occupational Health & Safety 2	8	4
PUB485	Occupational Hygiene 1	8	4
<b>Year 2, Semester 1</b>			
ISB382	Microcomputer Applications	8	3
LSB242	Anatomy & Physiology	12	6
LSB301	Microbiology 1	8	3
MEB035	Safety Technology 1	12	4
PUB485	Occupational Hygiene 1	8	4



## Year 2, Semester 2

CHB411	Environmental Analytical Chemistry	8	4
LSB431	Microbiology 2	8	3
PHB404	Safety Technology 2	12	6
PUB482	Occupational Health	12	6
PUB483	Human Factors 1	8	3

## Year 3, Semester 1

PUB512	Human Factors 2	12	6
PUB513	Epidemiology & Diseases	12	6
PUB516	Occupational Health & Safety Practice 1	12	6
PUB585	Occupational Hygiene 2	12	6

## Year 3, Semester 2

PUB611	Hazard Assessment & Management	12	6
PUB612	Health Promotion & Education	8	3
PUB613	Occupational Health & Safety Practice 2	8	3
PUB614	Industry Specialisation	8	6
PUB617	Occupational Health & Safety Project	12	6

## ■ Bachelor of Applied Science (Optometry) (OP42)

**Location:** Gardens Point campus

**Course Duration:** 4 years full-time

**Total Credit Points:** 384

**Standard Credit Points/Full-time Semester:** 48

**Course Coordinator:** Associate Professor 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 QUT, 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. 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 provide advice regarding the purchase of these instruments.

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

CHB142	Chemistry 1	12	6
LSB151	Human Anatomy 1	8	3
LSB161	Biology	8	3
MAB251	Mathematics 1	8	4
PHB122	Physics 1	12	5

**Year 1, Semester 2**

CHB242	Chemistry 2	12	6
OPB132	Ophthalmic Optics 2	12	4
PHB222	Physics 2	12	5
PHB240	Optics 2	12	7

**Year 2, Semester 1**

ISB385	Microcomputer Software Applications	4	2
LSB351	Human Anatomy 3	10	5
LSB571	Biochemistry 4	8	4
OPB312	Visual Science 3	14	5
PHB340	Optics 3	12	7

**Year 2, Semester 2**

LSB451	Human Physiology	12	7
LSB470	Disease Processes 4	4	2
LSB491	Microbiology 3	6	3
MAB252	Statistics	4	2
OPB401	Ocular & Regional Anatomy	8	3
OPB412	Visual Science 4	14	5

**Year 3, Semester 1**

OPB504	Ophthalmic Optics 5	6	4
OPB505	Clinical Optometry 5	8	4
OPB508	Ocular Physiology	8	4
OPB509	Optometry 5	18	9
OPB527	Diseases of the Eye 5	8	3

**Year 3, Semester 2**

OPB605	Clinical Optometry 6	8	4
OPB608	Ocular Pharmacology	6	3
OPB609	Optometry 6	16	8
OPB617	Contact Lens Studies 6	6	2
OPB627	Diseases of the Eye 6	8	4
SSB911	General Psychology	4	3

**Year 4, Semester 1**

MAB258	Experimental Design	4	2
OPB705	Clinical Optometry 7	24	13
OPB709	Optometry 7	10	5
OPB717	Contact Lens Studies 7	6	2
OPB750	Project	5	2

**Year 4, Semester 2**

HRB132	Practice Management	4	2
OPB750	Project	5	4
OPB803	Occupational/Public Health Optometry	6	2
OPB805	Clinical Optometry 8	32	17

## ■ Bachelor of Applied Science (Podiatry) (PU45)

**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

### Professional Recognition

Graduates are eligible for State Registration throughout Australia. This 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 are 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
<b>Year 1, Semester 1</b>			
CHB142	Chemistry 1	12	6
ISB382	Microcomputer Applications	8	3
LSB151	Human Anatomy 1	8	3
MEB031	Material Technology	8	2
PHB150	Physics 1H	12	6
<b>Year 1, Semester 2</b>			
CHB242	Chemistry 2	8	6
LSB261	Systematic Anatomy	8	3
MAB152	Quantitative Methods	8	3
PHB262	Physics 2L	8	4
PHB252	Kinesiology & Biomechanics	8	2
SSB914	Psychology	8	3
<b>Year 2, Semester 1</b>			
LSB371	Biochemistry 4	8	4
LSB401	Microbiology	8	3
LSB451	Human Physiology	12	7
PUB302	Podiatric Medicine 1	8	4
PUB303	Clinical Science 1	12	6
<b>Year 2, Semester 2</b>			
LSB331	Advanced Anatomy	8	3
LSB470	Disease Processes 4	4	2
PUB404	Clinical Science 2	12	9
PUB421	Podiatric Medicine 2	12	6
PUB306	Pharmacology	8	3
<b>Year 3, Semester 1</b>			
PHB313	Radiographic Image Interpretation	8	3
PUB304	Physical Medicine	8	3
PUB410	Medicine	8	3

PUB422	Podiatric Anaesthesiology	8	2
PUB503	Podiatric Medicine 3	8	3
PUB504	Clinical Science 3	8	12

### **Year 3, Semester 2**

PUB411	Orthopaedics	8	3
PUB502	Dermatology	8	3
PUB505	Podiatric Surgery	8	3
PUB602	Sports Medicine	8	3
PUB603	Clinical Science 4	8	9
PUB610	Project & Professional Management	8	3

## **■ Bachelor of Business (Health Administration) (PU48)**

**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.

### **HEALTH ADMINISTRATION MAJOR**

<b>Part-Time Course Structure</b>		<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
<b>Year 1, Semester 1</b>			
BSB102	Management & Organisation	12	3
PUB130	Australian Health Industry	12	3
<b>Year 1, Semester 2</b>			
EPB140	Macroeconomics	12	3
HRB131	Personnel Management & Industrial Relations	12	3
<b>Year 2, Semester 1</b>			
AYB104	Principles of Accounting	12	3
	OR		
AYB110	Accounting 1	12	4
PUB233	Information, Education & Communication for Health	12	3
<b>Year 2, Semester 2</b>			
ALB110	Business Law	12	3
EPB150	Microeconomics	12	3
<b>Year 3, Semester 1</b>			
ISB892	Business Computing	12	4
PUB531	Health Care Economics 1	12	3
<b>Year 3, Semester 2</b>			
PUB618	Health Computer Systems	12	4
	Elective	12	

**Year 4, Semester 1**

EPB163	Research & Survey Methods	12	3
LWS001	Medicine & the Law	12	3

**Year 4, Semester 2**

PUB430	Applied Health Care Analysis	12	3
PUB580	Health Administration Finance	12	3

**Year 5, Semester 1**

HRB130	Organisational Behaviour	12	3
	Elective	12	

**Year 5, Semester 2**

	Elective	12	
	Elective	12	

**Year 6, Semester 1**

PUB600	Health Management 1	12	3
PUB643	Health Services Planning	12	3

**Year 6, Semester 2**

PUB605	Health Management 2	12	3
PUB634	Health Services Evaluation	12	3

**HEALTH INFORMATION MANAGEMENT MAJOR\***

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

BSB102	Management & Organisation	12	3
LSB171	Anatomy & Physiology 1	12	4
PUB130	Australian Health Industry	12	3
PUB233	Information, Education & Communication for Health	12	3

**Year 1, Semester 2**

HRB131	Personnel Management & Industrial Relations	12	3
LSB271	Anatomy & Physiology 2	12	4
PUB220	Medical Terminology	12	3
PUB299	Health Information Management 1	12	3

**Year 2, Semester 1**

EPB163	Research & Survey Methods	12	3
LSB361	Fundamentals of Medicine 1	12	3
LWS001	Medicine & the Law	12	3
PUB399	Health Information Management 2	12	3

**Year 2, Semester 2**

EPB150	Microeconomics	12	3
	OR		
	Elective	12	
PUB430	Applied Health Care Analysis	12	3
LSB461	Fundamentals of Medicine 2	12	3
PUB499	Health Information Management 3	12	3

\* Note: Students in the Health Information Management Major are required to study:

EPB150 Microeconomics AND  
 PUB531 Health Care Economics 1  
 OR  
 AYB104 Principles of Accounting AND  
 PUB580 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**

PUB643	Health Services Planning	12	3
PUB531	Health Care Economics 1 OR	12	3
AYB104	Principles of Accounting	12	3
ISB892	Business Computing	12	4
	Elective	12	

### **Year 3, Semester 2**

PUB580	Health Administration Finance OR	12	3
	Elective	12	
PUB618	Health Computer Systems	12	4
PUB619	Health Information Management 4	12	3
PUB634	Health Services Evaluation	12	3

### **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.

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

PUB533	International Health Care Systems (First Semester)
PUB431	Health Care Economics 2 (Second Semester)
PUB528	Health Administration Project (First and Second Semesters)

## **■ Bachelor of Nursing (Postregistration) (NS48)**

**Location:** Kelvin Grove 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 Joan Penridge

### **Professional Recognition**

This course is recognised by the Royal College of Nursing, Australia as satisfying the academic requirements for admission as a professional member.

### **Advanced Standing**

Advanced standing of one year will be granted to graduates of the following courses conducted at QUT:

- ☐ Diploma of Applied Science – Nursing; and
- ☐ Post-registration Diploma of Applied Science courses, since (and including) 1982.

Advanced standing of six months will be granted to graduates of Diploma level nursing courses other than those conducted at QUT.

### **Electives**

Students may select elective subjects (other than the identified nursing elective) either within or outside the School of Nursing. It will be necessary to seek approval from the appropriate School to enrol in elective subjects.

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

HUB003	Philosophy & Nursing 1	8	3
LWS005	Law & Nursing	8	3
NSB504	Professional Issues in Nursing 1	8	3
PUB109	Introduction to Environmental Health	8	3
SSB905	Psychology for Health Professionals	8	3
	Elective	8	

**Year 1, Semester 2**

HUB004	Philosophy & Nursing 2	8	3
LSB281	Physiology & Pharmacology	8	3
SSB906	Sociology for Health Professionals	8	3
NSB207	Nursing & the Individual	8	3
	OR		
NSB406	Nursing & the Family	8	3
	OR		
NSB407	Nursing & the Community	8	3
	Nursing Elective	8	
	Elective	8	

**Year 2, Semester 1**

NSB505	Professional Issues in Nursing 2	8	3
NSB304	Nursing & Culture	8	3
LSB191	Clinical Physiology & Pharmacology	8	3
	OR		
SSB920	Psychopathology	8	3
NSB601	Research in Nursing Practice	8	3
	Elective	8	
	Elective	8	

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

LWS005	Law & Nursing	8	3
PUB109	Introduction to Environmental Health	8	3
SSB905	Psychology for Health Professionals	8	3

**Year 1, Semester 2**

LSB281	Physiology & Pharmacology	8	3
SSB906	Sociology for Health Professionals	8	3
	Elective	8	3

**Year 2, Semester 1**

HUB003	Philosophy & Nursing 1	8	3
NSB504	Professional Issues in Nursing 1	8	3
	Elective	8	

**Year 2, Semester 2**

HUB004	Philosophy & Nursing 2	8	3
NSB207	Nursing & the Individual	8	3
	OR		
NSB406	Nursing & the Family	8	3
	OR		
NSB407	Nursing & the Community	8	3
	Nursing Elective	8	

**Year 3, Semester 1**

LSB191	Clinical Physiology & Pharmacology	8	3
	OR		
SSB920	Psychopathology	8	3
NSB304	Nursing & Culture	8	3
	Elective	8	

**Year 3, Semester 2**

NSB505	Professional Issues in Nursing 2	8	3
NSB601	Research in Nursing Practice	8	3
	Elective	8	

**Full-Time Course Structure****Advanced Standing Only (QUT Graduates)****Semester 1**

		<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
HUB003	Philosophy & Nursing 1	8	3
NSB304	Nursing & Culture	8	3
NSB505	Professional Issues in Nursing 2	8	3
NSB601	Research in Nursing Practice	8	3
PUB109	Introduction to Environmental Health	8	3
	Elective	8	

**Part-Time Course Structure****Advanced Standing Only (QUT Graduates)****Semester 1**

		<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
HUB003	Philosophy & Nursing 1	8	3
NSB304	Nursing & Culture	8	3
PUB109	Introduction to Environmental Health	8	3

**Semester 2**

NSB505	Professional Issues in Nursing 2	8	3
NSB601	Research in Nursing Practice	8	3
	Elective	8	

**Full-Time Course Structure****Advanced Standing Only (Diplomates other than QUT)****Semester 1**

		<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
HUB003	Philosophy & Nursing 1	8	3
NSB304	Nursing & Culture	8	3
NSB505	Professional Issues in Nursing 2	8	3
NSB601	Research in Nursing Practice	8	3
PUB109	Introduction to Environmental Health	8	3
	Elective	8	3

**Semester 2**

HUB004	Philosophy & Nursing 2	8	3
LWS005	Law & Nursing	8	3
NSB207	Nursing & the Individual	8	3
	OR		
NSB406	Nursing & the Family	8	3
	OR		
NSB407	Nursing & the Community	8	3
LSB191	Clinical Physiology & Pharmacology	8	3
	OR		
PUB423	Food & Nutrition	8	3
	OR		
SSB920	Psychopathology	8	3
	Elective	8	
	Elective	8	



Part-Time Course Structure Advanced Standing Only (Diplomates other than QUT)		Credit Points	Contact Hrs/Wk
<b>Year 1, Semester 1</b>			
HUB003	Philosophy & Nursing 1	8	3
NSB304	Nursing & Culture	8	3
PUB109	Introduction to Environmental Health	8	3
<b>Year 1, Semester 2</b>			
PUB423	Food & Nutrition OR	8	3
LSB191	Clinical Physiology & Pharmacology OR	8	3
SSB920	Psychopathology	8	3
HUB004	Philosophy & Nursing 2 Elective	8 8	3 3
<b>Year 2, Semester 1</b>			
LWS005	Law & Nursing	8	3
NSB601	Research in Nursing Practice Elective	8 8	3 3
<b>Year 2, Semester 2</b>			
NSB505	Professional Issues in Nursing 2	8	3
NSB207	Nursing & the Individual OR	8	3
NSB406	Nursing & the Family OR	8	3
NSB407	Nursing & the Community Elective	8 8	3

## ■ Bachelor of Nursing (Preregistration) (NS40)

**Location:** Kelvin Grove campus

**Course Duration:** 3 years full-time, 5 years part-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, New Zealand and North America.

This course is recognised by the Royal College of Nursing, Australia as satisfying the academic requirements for admission as a professional member.

### Special Course Requirements

The Clinical Practice B subjects, ie. NSB115, NSB215, NSB315, NSB415, NSB515 and NSB615, each consist of a two-week period of continuous practice following the relevant semester.

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

LSB181	Anatomy	8	3
NSB114	Clinical Practice 1A	8	3
NSB151	Foundations of Nursing Practice 1	8	3
PUB109	Introduction to Environmental Health	8	3
SSB905	Psychology for Health Professionals	8	3

**After Semester**

NSB115	Clinical Practice 1B	8	-
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**Year 1, Semester 2**

LSB281	Physiology & Pharmacology	8	3
LSB251	Microbiology	8	3
NSB214	Clinical Practice 2A	8	3
NSB152	Foundations of Nursing Practice 2	8	3
SSB906	Sociology for Health Professionals	8	3

**After Semester**

NSB215	Clinical Practice 2B	8	-
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**Year 2**

Students entering the Year 2 program must select either the Biophysical Health area or the Mental Health area (subject to quota restrictions). The area not covered in Year 2 must be completed in Year 3.

**Year 2, Semester 1****BIOPHYSICAL HEALTH AREA**

LWS005	Law & Nursing	8	3
LSB191	Clinical Physiology & Pharmacology	8	3
NSB301	Nursing & Biophysical Health 1	8	3
NSB304	Nursing & Culture	8	3
NSB314	Clinical Practice 3A	8	3
NSB315	Clinical Practice 3B	8	-

OR

**MENTAL HEALTH AREA**

HUB003	Philosophy & Nursing 1	8	3
NSB302	Nursing & Mental Health 1	8	3
NSB304	Nursing & Culture	8	3
NSB314	Clinical Practice 3A	8	3
NSB315	Clinical Practice 3B	8	3
SSB920	Psychopathology	8	3

**Year 2, Semester 2****BIOPHYSICAL HEALTH AREA**

HUB003	Philosophy & Nursing 1	8	3
NSB401	Nursing & Biophysical Health 2	8	3
NSB406	Nursing & the Family	8	3
NSB414	Clinical Practice 4A	8	3
NSB415	Clinical Practice 4B	8	-
PUB423	Food & Nutrition	8	3

OR

**MENTAL HEALTH AREA**

LWS005	Law & Nursing	8	3
NSB402	Nursing & Mental Health 2	8	3
NSB407	Nursing & the Community	8	3

NSB414	Clinical Practice 4A	8	3
NSB415	Clinical Practice 4B	8	-
PUB423	Food & Nutrition	8	3

### Year 3

The area either Biophysical or Mental Health not covered in Year 2 must be completed in Year 3.

### Year 3, Semester 1

#### BIOPHYSICAL HEALTH AREA

LSB191	Clinical Physiology & Pharmacology	8	3
NSB301	Nursing & Biophysical Health 1	8	3
NSB406	Nursing & the Family	8	3
NSB504	Professional Issues in Nursing 1	8	3
NSB514	Clinical Practice 5A	8	3
NSB515	Clinical Practice 5B	8	-
OR			

#### MENTAL HEALTH AREA

NSB302	Nursing & Mental Health 1	8	3
NSB407	Nursing & the Community	8	3
NSB505	Professional Issues in Nursing 2	8	3
NSB514	Clinical Practice 5A	8	3
NSB515	Clinical Practice 5B	8	-
SSB920	Psychopathology	8	3

### Year 3, Semester 2

#### BIOPHYSICAL HEALTH AREA

HUB004	Philosophy & Nursing 2	8	3
NSB401	Nursing & Biophysical Health 2	8	3
NSB505	Professional Issues in Nursing 2	8	3
NSB601	Research in Nursing Practice	8	3
NSB614	Clinical Practice 6A	8	3
NSB615	Clinical Practice 6B	8	-
OR			

#### MENTAL HEALTH AREA

HUB004	Philosophy & Nursing 2	8	3
NSB402	Nursing & Mental Health 2	8	3
NSB504	Professional Issues in Nursing 1	8	3
NSB601	Research in Nursing Practice	8	3
NSB614	Clinical Practice 6A	8	3
NSB615	Clinical Practice 6B	8	-

### Part-Time Course Structure

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

### Year 1, Semester 1

LSB181	Anatomy	8	3
PUB109	Introduction to Environmental Health	8	3
SSB905	Psychology for Health Professionals	8	3

### Year 1, Semester 2

LSB251	Microbiology	8	3
LSB281	Physiology & Pharmacology	8	3
SSB906	Sociology for Health Professionals	8	3

### Year 1, Semester 3

NSB114	Clinical Practice 1A	8	3
NSB115	Clinical Practice 1B	8	3
NSB151	Foundations of Nursing Practice 1	8	3

**Year 1, Semester 4**

NSB152	Foundations of Nursing Practice 2	8	3
NSB214	Clinical Practice 2A	8	3
NSB215	Clinical Practice 2B	8	3

**Year 2**

Students entering the Year 2 program must select either the Biophysical Health area or the Mental Health area (subject to quota restrictions). The area not covered in Year 2 must be completed in Year 3.

		<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
<b>BIOPHYSICAL HEALTH AREA</b>			
<b>Year 2, Semester 1</b>			
LSB191	Clinical Physiology & Pharmacology	8	3
LWS005	Law & Nursing 1	8	3
NSB304	Nursing & Culture	8	3
<b>Year 2, Semester 2</b>			
HUB003	Philosophy & Nursing 1	8	3
NSB406	Nursing & the Family	8	3
PUB423	Food & Nutrition	8	3
<b>Year 2, Semester 3</b>			
NSB301	Nursing & Biophysical Health 1	8	3
NSB314	Clinical Practice 3A	8	3
NSB315	Clinical Practice 3B	8	3
<b>Year 2, Semester 4</b>			
NSB401	Nursing & Biophysical Health 2	8	3
NSB414	Clinical Practice 4A	8	3
NSB415	Clinical Practice 4B	8	3
OR			
<b>MENTAL HEALTH AREA</b>			
<b>Year 2, Semester 1</b>			
LWS005	Law & Nursing	8	3
NSB304	Nursing & Culture	8	3
SSB920	Psychopathology	8	3
<b>Year 2, Semester 2</b>			
HUB003	Philosophy & Nursing 1	8	3
NSB407	Nursing & the Community	8	3
PUB423	Food & Nutrition	8	3
<b>Year 2, Semester 3</b>			
NSB302	Nursing & Mental Health 1	8	3
NSB314	Clinical Practice 3A	8	3
NSB315	Clinical Practice 3B	8	3
<b>Year 2, Semester 4</b>			
NSB402	Nursing & Mental Health 2	8	3
NSB414	Clinical Practice 4A	8	3
NSB415	Clinical Practice 4B	8	3

**Year 3**

Year 3 is undertaken in the full-time mode. The area either Biophysical or Mental Health not covered in Year 2 must be completed in Year 3.

# **FACULTY OF INFORMATION TECHNOLOGY**

**INFORMATION  
TECHNOLOGY**

# Courses

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# FACULTY OF INFORMATION TECHNOLOGY

## Information for all Information Technology students

### Graduation rules

This information is relevant to all Faculty of Information Technology courses.

Students who commenced study towards a QUT award from Semester 1, 1990 (inclusive) are covered by QUT Student Rules, Procedures and Policies. To qualify for graduation, students admitted to courses offered by the Faculty of Information Technology on Gardens Point campus 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.)

### 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.

### Faculty policy regarding use of University computer facilities

Access to computer accounts, E-mail, and bulletin board facilities via QUT equipment is provided solely to assist students in education and research. Use of such facilities by students for matters unrelated to their course of study or approved research represents misuse. Any misuse may result in fines, suspension of use of computer accounts, and/or strict disciplinary action.

### Cooperative Education Program (Elective Subject ITB900 – 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 early study.

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

#### SELECTION CRITERIA

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 ITB900 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 12-month training period the student writes two reports on the experience, submits them to the employer for endorsement and comment, and then hands them to the Student Officer 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 ITB900 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 the Bachelor of Business (Information Management) (IS43) ITB900 Industrial Training Experience replaces the project subject (ISB305) normally



done in Year 3, Semester 2. It is recommended that these students also do ISB350 – Minor Studies, worth three credit points. This can take the form of a small project related to the 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. Successful completion of ITB900 – Industrial Training Experience and ISB350 – Minor Studies replaces ISB305 – Project and one nine credit point elective. 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) (CS36)

**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 Gerard 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 4.50 (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, School of Computing Science.

#### 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, School of Computing Science.

The course structure comprises core, project and elective components. The student intake is 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 are undertaken in the first four semesters of the part-time course. The six mandatory subjects are:

#### Core Subjects

		<b>Credit Contact</b>	<b>Points Hrs/Wk</b>
CSN100	Theory of Computing 1	12	3
CSN110	Compiler Construction	12	3
CSN210	Distributed Systems	12	3
CSN220	Artificial Intelligence	12	3

ISN100	Information Systems 1	12	3
ITN502	Computer Security	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

CSN301	Minor Project	12	-
CSN302	Minor Project	12	-
CSN303	Minor Project	12	-
CSN304	Minor Project	12	-
CSN400	Major Project - Part 1 (mandatory)	12	-
CSN450	Major Project - Part 2 (mandatory)	12	-

The number of advanced electives taken by an individual student depends 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 (72 credit points) may be selected from this range. The offering of elective subjects in any semester depends 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 2	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 1	12	3
CSN360	Advanced Graphics 2	12	3
CSN370	Special Topic	12	3
CSN380	Neural Networks	12	3
ISN300	Information Systems 2	12	3
ITN311	Advanced Data Communications	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, School of Computing Science. Not all subjects are offered during the day. Full-time students may be required to attend a number of evening classes.

A possible sequence for the part-time program is outlined below.

Part-Time Course Structure		Credit Points	Contact Hrs/Wk
<b>Year 1, Semester 1</b>			
CSN220	Artificial Intelligence	12	3
ITN502	Computer Security	12	3
<b>Year 1, Semester 2</b>			
CSN110	Compiler Construction	12	3
ISN100	Information Systems 1	12	3
<b>Year 2, Semester 1</b>			
CSN210	Distributed Systems	12	3
	Elective	12	3

**Year 2, Semester 2**

CSN100	Theory of Computing 1	12	3
	Elective	12	3

**Year 3, Semester 1**

CSN301	Minor Project	12	-
	Elective	12	3

**Year 3, Semester 2**

CSN302	Minor Project	12	-
	Elective	12	3

**Year 4, Semester 1**

CSN400	Major Project - Part 1	12	-
	Elective	12	3

**Year 4, Semester 2**

CSN450	Major Project - Part 2	12	-
	Elective	12	3

**■ Master of Information Technology (IS50)****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, School of Information Systems.

**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, School of Information Systems.

The course structure comprises core, project and elective components. The student intake is 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

ISN200	Major Issues in Information Technology	12	3
ISN201	Research Methodology	12	-

These core subjects must be taken in the first semester.

### Project Subjects

EITHER			
ISN301	Minor Project	12	-
ISN302	Minor Project	12	-
ISN303	Minor Project	12	-
ISN304	Minor Project	12	-

One minor project per semester

OR			
ISN401	Major Project	48	-
OR			
ISN500	Dissertation	96	-

To be completed within the last two semesters.

### Electives

The offering of elective subjects in any semester depends 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.

ISN100	Information Systems 1	12	3
ISN110	Formal Systems Specification	12	3
ISN120	Database Systems	12	3
ISN130	Object-oriented Systems	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
ITN311	Advanced Data Communication	12	3
ITN502	Computer Security	12	3
ITN550	Computer Security Risk Modelling	12	3

## ■ Graduate Diploma in Business (Information Systems) (IS18)

**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 Marion Orlowski

### **Professional Recognition**

This course is accredited by the Australian Computer Society.

### **1992 Enrolments - Continuing Students Only**

There will be no intake into this course from 1992. Any continuing students must arrange a study program to complete their award with the Course Coordinator prior to enrolment.

## **■ Graduate Diploma in Commercial Computing (IS04)**

**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:

- (i) hold a degree or a three-year diploma in a discipline other than computing from a recognised university or college of advanced education; applicants with undergraduate degrees or diplomas which include significant studies in computing are not eligible for admission to this course;
- (ii) have completed, at a degree level, an introductory subject in computing (the equivalent of at least three hours per week for one semester). Applicants whose degrees have not included an introductory computing subject must complete this subject as a visiting 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.

### **Full-Time Course Structure**

		<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
<b>Semester 1</b>			
ISP100	The Computer System	12	3
ISP101	Data Design & Processing	12	3
ISP200	Systems Analysis & Design	12	3
ITP501	Data Communications	12	3

### **Semester 2**

Electives [minimum of 48 credit points]

Part-Time Course Structure		Credit Points	Contact Hrs/Wk
<b>Year 1, Semester 1</b>			
ISP100	The Computer System	12	3
ISP101	Data Design & Processing	12	3
<b>Year 1, Semester 2</b>			
ISP200	Systems Analysis & Design	12	3
ITP501	Data Communications	12	3
<b>Year 2, Semester 1</b>			
Electives [minimum of 24 credit points]			
<b>Year 2, Semester 2</b>			
Electives [minimum of 24 credit points]			

### Electives

The offering of elective subjects in any semester depends 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

AYP100	Accounting Principles 1	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

AYB212	Computer Security & Audit	12	3
ISB290	Information Systems Analysis & Design	12	4
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 (CS19)

**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:

- (i) hold a degree or a three-year diploma in a discipline other than computing from a recognised university or college of advanced education; applicants with undergraduate degrees which include significant studies in computing are not eligible for admission into the course;
- (ii) have completed, at a degree level, an introductory level subject in Pascal programming (the equivalent of at least three hours per week for one semester. Applicants whose degrees have not included this subject must complete this subject as a visiting student before entering the course.

In addition, an introductory tertiary level subject in Mathematics is desirable.

### 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

		<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
<b>Semester 1</b>			
CSP112	Software Principles	12	3
CSP213	Scientific Applications	12	3
ISP101	Data Design & Processing	12	3
ITP501	Data Communications	12	3
<b>Semester 2</b>			
CSP211	Systems Architecture & Operating Systems	12	3
CSP214	Programming Languages & Structures	12	3
CSP960	Project Work	12	-
	Elective(s) [minimum of 12 credit points]		

**Note:** Not all subjects are offered during the day. Full-time students may be required to attend evening classes.

### Part-Time Course Structure

		<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
<b>Year 1, Semester 1</b>			
CSP112	Software Principles	12	3
ISP101	Data Design & Processing	12	3
<b>Year 1, Semester 2</b>			
CSP211	Systems Architecture & Operating Systems	12	3
ITP501	Data Communications	12	3
<b>Year 2, Semester 1</b>			
CSP213	Scientific Applications	12	3
CSP214	Programming Languages & Structures	12	3
<b>Year 2, Semester 2</b>			
CSP960	Project Work	12	-
	Elective(s) [minimum of 12 credit points]		

### Electives

The offering of elective subjects in any semester depends 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:

<b>FIRST SEMESTER ELECTIVES</b>			
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	
ISB283	Database & Procedural Languages	12	4
ISP998	Special Topic - Commercial Computing	12	3
<b>SECOND SEMESTER ELECTIVES</b>			
CSB319	Special Studies	9	3
CSB321	Graphics	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
ITB503	Data Security	9	3

## ■ Graduate Diploma in Library Science (IS65)

**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 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. Applicants whose degrees have not included this introductory computing subject must complete this subject as a visiting student before entering the course.

### Professional Recognition

Graduates are eligible to become 'Associates' (ie professional members) of the Australian Library and Information Association.

<b>Full-Time Course Structure</b>		<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
<b>Semester 1</b>			
ISP101	Data Design & Processing	12	3
ISP431	Collection Building & Acquisitions	12	3
ISP432	Organisation of Knowledge	12	3
ISP433	Information Sources & Services	12	3
<b>Semester 2</b>			
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
<b>Part-Time Course Structure</b>		<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
<b>Year 1, Semester 1</b>			
ISP101	Data Design & Processing	12	3
ISP431	Collection Building & Acquisitions	12	3
<b>Year 1, Semester 2</b>			
ISP441	Online Information Services	12	3
ISP442	Library Programs Management	12	3
<b>Year 2, Semester 1</b>			
ISP432	Organisation of Knowledge	12	3
ISP433	Information Sources & Services	12	3
<b>Year 2, Semester 2</b>			
ISP428	Field Experience	4	-
	One Library Science Elective	12	3
	One Library Science Elective	8	2

### Electives

The offering of elective subjects depends 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, School of Information Systems. Electives may be chosen from the following, or any other appropriate subject may be taken with the approval of the relevant Head of School.

ISP414	Library Services to Young People	12	3
ISP419	Government Documents	12	3
ISP427	Special Topic – Library Science	12	3
ISP437	Special Topic – Library Science	8	2
ISP451	Advanced Organisation of Knowledge	12	3
ISP452	Individual Study	8	2
ISP453	Introduction to Records Management	8	2
ISP454	Library Programs & Services	8	2

## ■ Bachelor of Applied Science (Computing) (Honours) (CS55)

**Location:** Gardens Point campus

**Course Duration:** 1 year full-time

**Total Credit Points:** 96

**Standard Credit Points/Full-Time Semester:** 48

**Course Coordinator:** Dr Gerard 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, 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
<b>Semester 1</b>			
CSN201	Research Methodology	12	-
CSN210	Distributed Systems	12	3
ITN502	Computer Security	12	3
	Elective	12	
<b>Semester 2</b>			
CSN100	Theory of Computing 1	12	3
CSN110	Compiler Construction	12	3
CSN202	Honours Project	12	-
	Elective	12	

### Electives

The offering of elective subjects in any semester depends 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 2	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 1	12	3
CSN370	Special Topic - Library Science	12	3
CSN380	Neural Networks - Library Science	12	3
ISN100	Information Systems 1	12	3
ISN300	Information Systems 2	12	3
ITN311	Advanced Data Communications	12	3

## ■ Bachelor of Business (Computing) (Honours) (IS61)

**Location:** Gardens Point campus

**Course Duration:** 1 year full-time

**Total Credit Points:** 96

**Standard Credit Points/Full-Time Semester:** 48

**Course Coordinator:** Dr Mark McLoughlin

### 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, 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

		<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
<b>Semester 1</b>			
ISN110	Formal Systems Specification	12	3
ISN201	Research Methodology	12	3
ITN502	Computer Security	12	3
	Elective	12	3
<b>Semester 2</b>			
ISN100	Information Systems 1	12	3
ISN120	Database Systems	12	3
ISN211	Honours Project	12	-
	Elective	12	3

### Electives

The offering of elective subjects in any semester depends 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.

Electives may be chosen from the following:

ISN130	Object Oriented Systems	12	3
ISN160	Knowledge-based Systems	12	3
ISN170	Special Studies	12	3
ITN550	Computer Security Risk Modelling	12	3

or 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) (IT32)

**Location:** Gardens Point campus

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

**Standard Credit Points/Full-Time Semester:** 48

**Course Coordinator:** Mr Robert Andrews

Full-Time Course Structure		Credit Points	Contact Hrs/Wk
<b>Semester 1</b>			
CSB100	Introduction to Computer Science	9	3
ISB101	Application Systems	9	3
ISB102	Representation of Information	9	3
ITB603	Practice 1 (IT32)	12	4
MAB172	Quantitative Methods 1B	9	3
<b>Semester 2</b>			
AYB104	Accounting Information Systems 1	9	3
COB135	Professional Communication	9	2
CSB101	Computer Systems 1	9	3
CSB110	Programming Principles	9	3
ITB653	Practice 2 (IT32)	12	4
Part-Time Course Structure		Credit Points	Contact Hrs/Wk
<b>Year 1, Semester 1</b>			
CSB100	Introduction to Computer Science	9	3
ISB102	Representation of Information	9	3
ITB604	Practice 1A (IT32)	6	2
<b>Year 1, Semester 2</b>			
AYB104	Accounting Information Systems	9	3
ISB101	Application Systems	9	3
ITB609	Practice 1B (IT32)	6	2
<b>Year 2, Semester 1</b>			
CSB101	Computer Systems 1	9	3
ITB654	Practice 2A (IT32)	6	2
MAB172	Quantitative Methods 1B	9	3
<b>Year 2, Semester 2</b>			
COB135	Professional Communication	9	2
CSB110	Programming Principles	9	3
ITB663	Practice 2B (IT32)	6	2

## ■ Bachelor of Applied Science (Computing) (CS28)

**Location:** Gardens Point campus

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

**Total Credit Points:** 288 (includes 96 credit points from Common First Year)

**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**

Entry into this course is dependent upon admission to and progression through the Common First Year (IT32). See *IT32 Structure for Year 1, Semesters 1 and 2*.

**Year 2, Semester 1**

CSB200	Foundations of Computing 1	9	3
CSB201	Computer Systems 2	9	3
ISB202	Database & Procedural Languages	9	3
ITB501	Data Communications	9	3
ITB600	Practice 3 (CS28)	12	4

**Year 2, Semester 2**

CSB210	Foundations of Computing 2	9	3
CSB212	Languages & Language Processing	9	3
CSB213	Scientific Applications	9	3
ISB201	Information Systems Analysis & Design 1	9	3
ITB650	Practice 4 (CS28)	12	4

**Year 3, Semester 1**

CSB301	Operating Systems	9	3
CSB302	Software Engineering	9	3
CSB602	Practice 5 (CS28)	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 (IT32). See *IT32 Structure for Semesters 1 to 4*.

**Year 3, Semester 1**

CSB201	Computer Systems 2	9	3
ISB201	Information Systems Analysis & Design 1	9	3
ITB605	Practice 3A (CS28)	6	2

**Year 3, Semester 2**

CSB200	Foundations of Computing 1	9	3
ITB501	Data Communication	9	3
ITB610	Practice 3B (CS28)	6	2

**Year 4, Semester 1**

CSB212	Languages & Language Processing	9	3
CSB213	Scientific Applications	9	3
ITB655	Practice 4A (CS28)	6	2

**Year 4, Semester 2**

CSB210	Foundations of Computing 2	9	3
ISB202	Database & Procedural Languages	9	3
ITB660	Practice 4 (CS28)	6	2

**Year 5, Semester 1**

CSB302	Software Engineering	9	3
CSB612	Practices 5A (CS28)	6	2
Elective		9	

### Year 5, Semester 2

CSB301	Operating Systems	9	3
CSB622	Practice 5B (CS28)	6	2
	Elective	9	

### 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	9	

### Electives

The offering of elective subjects in any semester depends on sufficient minimum enrolment in the subject and the availability of staff. The choice of all electives is subject to approval by the relevant Head of School. A minimum of 45 credit points of electives must be chosen from the list below or from other offerings subject to approval by the Course Coordinator.

#### 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
HRB404	Principles of Management	9	2
ISB210	Information Systems Analysis & Design 2	9	3
ISB302	Database Management	9	3
ISB303	Office Information Systems	9	3
ITB099	English for Academic Purposes+	9	3
MKB139	Marketing	12	2

#### SECOND SEMESTER ELECTIVES

CSB319	Special Studies	9	3
CSB321	Graphics	9	3
CSB325	Expert Systems	9	3
CSB326	Systems Programming	9	3
HRB404	Principles of Management	9	2
ISB210	Information Systems Analysis & Design 2	9	3
ISB302	Database Management	9	3
ISB303	Office Information Systems	9	3
ITB503	Data Security	9	3
MKB139	Marketing	12	2

#### SPECIAL ELECTIVE

ITB900 Industrial Training Experience.

For details see the 'Information for all Information Technology Students' at the front of this Faculty's section (page 399).

## ■ Bachelor of Applied Science (Computing) (IS28)

**Location:** Gardens Point campus

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

**Total Credit Points:** 288

\* First half of an optional year-long project, subject to approval of the Course Coordinator.

+ Subject to approval by the Dean, Faculty of Information Technology.

**Standard Credit Points/Full-Time Semester: 48**

**Course Coordinator:** Mr Hamish Bentley

### **Professional Recognition**

This course is accredited by the Australian Computer Society.

### **1992 Enrolments - Continuing Students Only**

There will be no intake into this course from 1992. Continuing students must complete all subjects as listed in the full-time course structure (or equivalent). A study program must be arranged with the Course Coordinator prior to 1992 enrolment to enable completion of the course.

<b>Full-Time Course Structure (For Continuing Students only)</b>	<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
--	--------------------------	---------------------------

#### **Year 1, Semester 1**

COB135	Professional Communication	12	3
CSB010	Introduction to Software Engineering	12	3
CSB011	Introduction to Programming	12	3
ISB014	Introduction to Information Systems	12	3

#### **Year 1, Semester 2**

CSB012	Concepts in Computer Systems	12	3
CSB013	Data Structures	12	3
CSB018	Introduction to Computer Networks	12	3
ISB097	Information Analysis	12	4

#### **Year 2, Semester 1**

CSB015	Systems Software	12	3
ISB019	Systems Analysis & Design	12	3
ISB090	Database Systems 1	12	4
ISB095	Commercial Applications Development	12	4

#### **Year 2, Semester 2**

CSB017	Software Engineering	12	3
ISB089	Commercial Systems Development	12	4
ISB098	Database Systems 2	12	4
	Elective	12	

#### **Year 3, Semester 1**

ISB030	Systems Development Project	12	3
ISB038	Transaction Based Systems	12	3
	Elective	12	
	Elective	12	

#### **Year 3, Semester 2**

ISB093	Systems Planning	12	4
	Electives	24	
ISB091	Industry Project	12	4
	OR		
	Elective	12	

### **Electives**

The offering of elective subjects in any semester depends 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 will be advised by the Course Coordinator.

## ■ Bachelor of Business (Computing) (IS10)

**Location:** Gardens Point campus

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

**Total Credit Points:** 288 (includes 96 credit points from Common First Year)

**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 (IT32). *See IT32 Structure for Semesters 1 and 2.*

#### Year 2, Semester 1

EPB143	Management Science A	9	2
ISB201	Information Systems Analysis & Design 1	9	3
ISB202	Database & Procedural Languages	9	3
ITB501	Data Communications	9	3
ITB601	Practice 3 (IS10)	12	4

#### Year 2, Semester 2

FNB127	Managerial Accounting Principles	9	3
HRB404	Principles of Management	9	2
ISB210	Information Systems Analysis & Design 2	9	3
ITB651	Practice 4 (IS10)	12	4
	Elective*		

#### Year 3, Semester 1

ISB300	Project Work*	12	-
ISB301	Advanced Information Systems	9	3
ISB302	Database Management	9	3
ISB303	Office Information Systems	9	3
	Elective+		

#### Year 3, Semester 2

ISB300	Project Work*	12	-
ISB313	Expert Information Systems	9	3
ISB314	Information Systems Management	9	3
	Elective+		

### 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 (IT32). *See IT32 Structure for Semesters 1 to 4.*

#### Year 3, Semester 1

EPB143	Management Science A	9	2
ISB201	Information Systems Analysis & Design 1	9	3
ITB606	Practice 3A (IS10)	6	2

\* *See section on Electives.*

+ *Subject extends over two semesters.*



**Year 3, Semester 2**

ISB202	Database & Procedural Languages	9	3
ITB501	Data Communications	9	3
ITB611	Practice 3B (IS10)	6	2

**Year 4, Semester 1**

HRB404	Principles of Management	9	2
ISB210	Information Systems Analysis & Design 2	9	3
ITB656	Practice 4A (IS10)	6	2

**Year 4, Semester 2**

FNB127	Managerial Accounting Principles	9	3
ITB661	Practice 4B (IS10)	6	2
	Elective+		

**Year 5, Semester 1**

ISB301	Advanced Information Systems	9	3
ISB302	Database Management	9	3
	Elective+		

**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**

ISB300	Project Work*	12	-
	Elective+		

**Year 6, Semester 2**

ISB300	Project Work*	12	-
	Elective+		

**Electives**

Electives must total a minimum of 36 credit points, of these 18 credit points must be business electives, which may be chosen from any subject in degree courses offered by the Faculty of Business. The remaining 18 credit points may be selected from any faculty (including Information Technology and Business). All elective choices are subject to prerequisite and approval by the relevant Head of School.

Completion of ITB900 Industrial Training Experience, between the second and third years of coursework, replaces the 18 credit points of 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 399).

The offering of elective subjects in any semester depends on sufficient minimum enrolments in the subject and the availability of staff. Recommended electives are:

		<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
<b>FIRST SEMESTER ELECTIVES</b>			
CSB213	Scientific Applications	9	3
EPB150	Microeconomics	12	3
ISB113	Principles of Information Management	9	3
ISB350	Minor Studies	3	1

\* Subject extends over two semesters.

+ See section on Electives.

ISB998	Special Topic - Business Computing	9	3
MKB139	Marketing	9	2
ITB099	English for Academic Purposes*	9	3
<b>SECOND SEMESTER ELECTIVES</b>			
AYB212	Computer Security & Audit	12	3
CSB213	Scientific Applications	9	3
EPB110	Business Statistics	12	3
EPB124	Government	12	3
EPB150	Microeconomics	12	3
ISB219	Advanced COBOL	9	3
ISB350	Minor Studies	3	1
ISB999	Special Topic - Business Computing	9	3
ITB503	Data Security	9	3

## ■ Bachelor of Business (Information Management) (IS43)

**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.

<b>Full-Time Course Structure</b>		<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
<b>Year 1, Semester 1</b>			
CSB100	Introduction to Computer Science	9	3
ISB101	Application Systems	9	3
ISB102	Representation of Information	9	3
ISB113	Principles of Information Management	9	3
ITB603	Practice 1 (IT32)	12	4
<b>Year 1, Semester 2</b>			
AYB104	Principles of Accounting	12	3
COB135	Professional Communication	9	2
CSB101	Computer Systems 1	9	3
MAB172	Quantitative Methods 1B	9	3
ITB653	Practice 2 (IT32)	12	4
<b>Year 2, Semester 1</b>			
HRB404	Principles of Management	9	2
ISB201	Information Systems Analysis & Design 1	9	3
ISB203	Advanced Database	9	3
ISB215	External Sources of Information	9	3
ITB602	Practice 3 (IS43)	12	4
<b>Year 2, Semester 2</b>			
ISB204	Information Managers & the Law	9	3
ISB214	The Information Resource	9	3
ITB501	Data Communications	9	3

\* Subject to approval by the Dean of Faculty.

ITB652	Practice 4 (IS43)	12	4
SSB916	Applied Cognitive Psychology	9	2

### Year 3, Semester 1

EPB169	Economics of Information	9	2
ISB216	Political & Social Aspects of Information Technology	9	3
ISB301	Advanced Information Systems	9	3
ISB303	Office Information Systems	9	3
	Elective [minimum of 9 credit points]		

### Year 3, Semester 2

ISB305	Project*	12	-
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

AYB104	Introduction to Computer Science	9	3
ISB102	Representation of Information	9	3
ITB604	Practice 1A (IT32)	6	2

### Year 1, Semester 2

ACB181	Accounting Information Systems 1	9	3
ISB101	Application Systems	9	3
ITB609	Practice 1B (IT32)	6	2

### Year 2, Semester 1

CSB101	Computer Systems 1	9	3
ISB113	Principles of Information Management	9	3
ITB654	Practice 2A (IT32)	6	2

### Year 2, Semester 2

COB135	Professional Communication	9	2
ITB663	Practice 2B (IT32)	6	2
MAB172	Quantitative Methods 1B	9	3

### Year 3, Semester 1

HRB404	Principles of Management	9	2
ISB215	External Sources of Information	9	3
ITB607	Practice 3A (IS43)	6	2

### Year 3, Semester 2

ISB214	The Information Resource	9	3
ITB612	Practice 3B (IS43)	6	2
SSB916	Applied Cognitive Psychology	9	2

### Year 4, Semester 1

ISB201	Information Systems Analysis & Design 1	9	3
ISB203	Advanced Database	9	3
ITB657	Practice 4A (IS43)	6	2

### Year 4, Semester 2

ISB204	Information Managers & the Law	9	3
ITB501	Data Communications	9	3
ITB662	Practice 4B (IS43)	6	2

\* ITB900 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 5, Semester 1**

EPB169	Economics of Information	9	3
ISB216	Political & Social Aspects of Information Technology	9	3
ISB301	Advanced Information Systems	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	-
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 depends 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:

**First Semester Electives**

		<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
COB144	Literature & Communication	12	3
CSB213	Scientific Applications	9	3
EPB150	Microeconomics	12	3
ISB219	Advanced COBOL	9	1
ISB350	Minor Studies	3	1
ISB998	Special Topic - Business Computing	9	3
MKB139	Marketing	12	2

**Second Semester Electives**

CSB110	Programming Principles	9	3
CSB213	Scientific Applications	9	3
EPB124	Government	12	3
HRB126	Management Processes	12	3
HRB131	Personnel Management & Industrial Relations	12	3
ISB202	Database & Procedural Languages	9	3
ISB210	Information Systems Analysis & Design 2	9	3
ISB302	Database Management	9	3
ISB350	Minor Studies	3	1
ISB999	Special Topic - Business Computing	9	3
ITB503	Data Security	9	3
MJB117	Introduction to Audiovisual Communication	12	3
MKB124	Introduction to Public Relations	12	3
MKB140	Principles of Marketing	12	3

**Special Electives**

		<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
INB099	English for Academic Purposes (Subject to the approval of the Dean, Faculty of Information Technology.)	9	3

## ■ Associate Diploma in Business (Computing) (IS08)

**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 Glenn Stewart

### Professional Recognition

This course is accredited by the Australian Computer Society.

Full-Time Course Structure		Credit Points	Contact Hrs/Wk
<b>Year 1, Semester 1</b>			
COX100	Introduction to Organisation	12	4
COX101	Communication	12	4
CSX025	Introduction to Computers	12	4
CSX035	Software Principles	12	4
<b>Year 1, Semester 2</b>			
AYB104	Principles of Accounting	12	3
ISX026	Commercial Programming	12	4
ISX027	Systems Analysis	12	4
MAX173	Quantitative Methods	12	4
<b>Year 2, Semester 1</b>			
CSX031	Software Development	12	4
ISX029	Microcomputers: Hardware & Applications	12	4
ISX032	Database Systems 1	12	4
ISX036	Systems Design	12	4
<b>Year 2, Semester 2</b>			
CSX028	Computer Languages	12	4
CSX030	Computer Network	12	4
ISX033	Database Systems 2	12	4
ISX034	Project	12	-
	OR		
	Elective	12	

### Part-Time Course Structure (for Continuing Students only)

Continuing Students must complete all subjects as listed in the full-time course structure (or equivalent). A study program must be arranged with the Course Coordinator prior to 1992 enrolment.

### Electives

The offering of elective subjects in any semester depends 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 will be advised by the Course Coordinator.



# FACULTY OF LAW

LAW

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# FACULTY OF LAW

## Course Structures

### ■ Master of Laws by Coursework (LW51)

**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 also satisfies the Dean that they have the requisite ability to complete the LLM by Coursework degree.

#### Course Structure

The course structure comprises 96 credit points of coursework subjects for a Pass degree together with a dissertation for an Honours degree.

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
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 The Principles of Natural Resources Law*	12
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
LWN020 Non-resident & Foreign Source Taxation	12
LWN021 Banking & Finance Law I	12

\* Subject extends over two semesters.

LWN022	Banking & Finance Law 2	12
LWN023	International Trade Law*	24
LWN024	Select Problems of Tribunals and Enquiries	12
LWN025	Research Project 1	12
LWN026	Research Project 2*	24
LWN027	The Practice of Natural Resources Law	12
LWN028	Advanced Securities	12
LWN029	Theoretical Criminology	12
LWN030	Dispute Resolution/Mediation	12
LWN031	Foreign Investment and Property Development Law in Australia	12
LWN032	Credit for UQ Subject 1	12
LWN033	Credit for UQ Subject 2	12
LWN034	Credit for UQ Subject 3*	24
LWN035	Medico-legal Issues	12
LWN036	Intellectual Property Law	12
LWN037	Stamp Duty and Commercial Transactions	12
LWN038	Capital Gains Tax and Commercial Transactions	12
LWN039	Applied Criminology	12
LWN040	Theories of Justice	12

The code number of the Honours Dissertation is LWN100.

### Subjects Offered in 1992

It is intended that the following subjects will be offered in 1992:

LWN003	Advanced Family Law*
LWN005	Trade Practices and Consumer Protection*
LWN014	The Principles of Natural Resources Law (First Semester)
LWN017	Restitution (First Semester)
LWN018	Select Problems of Trusts (First Semester and/or Second Semester)
LWN021	Banking and Finance Law 1 (First Semester)+
LWN022	Banking and Finance Law 2 (Second Semester)+
LWN023	International Trade Law*
LWN024	Select Problems of Tribunals and Enquiries (First Semester)
LWN025	Research Project 1
LWN026	Research Project 2*
LWN027	The Practice of Natural Resources Law (Second Semester)
LWN028	Advanced Securities (Second Semester)
LWN029	Theoretical Criminology (First Semester)
LWN030	Dispute Resolution/Mediation (Second Semester)
LWN031	Foreign Investment and Property Development Law in Australia (Second Semester)
LWN035	Medico-Legal Issues (Second Semester)+
LWN037	Stamp Duty and Commercial Transactions (Second Semester)
LWN038	Capital Gains Tax and Commercial Transactions (First Semester)
LWN039	Applied Criminology (Second Semester)
LWN040	Theories of Justice (First Semester)+

### 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.

Applications to undertake an Honours Dissertation must be made on the prescribed form available from the Faculty office, detailing topic, proposed supervisor, etc. The obligation for finding a supervisor lies with the student. A list of research interests of Faculty staff

\* *Subject extends over two semesters.*

+ *Subject to availability of staff.*

is released in October of each year. Applications close in mid-January. Students are advised of the success or otherwise of their applications no later than Week 4 of Semester 1. If the topic and supervisor are approved, the student shall pursue his/her research for the dissertation under the direction of the supervisor.

The student shall submit four clear typed copies of his/her dissertation to the Dean of the Faculty of Law. The dissertation must be submitted no later than two weeks into the end-of-semester examinations. On submission of the dissertation, the student shall furnish a signed statement that the dissertation is his/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/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:

- (i) be accepted; or
- (ii) not be accepted; or
- (iii) be accepted subject to amendments to be made to the satisfaction of the supervisor, 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 Laws by Research and Thesis (LW52)\*

**Location:** Gardens Point campus

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

**Total Credit Points:** 96

### 1. Rules for the Master of Laws Degree by Research and Thesis

1.1 The following rules apply to the degree of Master of Laws to be obtained by research and thesis awarded by the Queensland University of Technology, and are made with the authority of the Academic Committee of the Queensland University of Technology.

### 2. Master of Laws Degree by Research and Thesis

2.1 The Master of Laws (LLM) degree by research and thesis may be awarded as:

- 2.1.1 Master of Laws, or
- 2.1.2 Master of Laws with First Class Honours, or
- 2.1.3 Master of Laws with Second Class Honours.

### 3. Candidature

3.1 Any of the following persons shall be eligible to apply for admission as a student for the degree:

3.1.1. **Normal Entry:** A person who has completed the requirements for the degree of Bachelor of Laws of the Queensland University of Technology at a standard of at least Second Class Honours Division A, or its equivalent from another institution which, in

\* Offered subject to final approval.

the opinion of the Dean of the Faculty of Law, maintains standards comparable with those required for the award of the degree of Bachelor of Laws of the Queensland University of Technology; **or**

**3.1.2 Other Entry:** A person who has completed the requirements for the degree of Bachelor of Laws of the Queensland University of Technology at a standard of Second Class Honours Division B or a lesser standard, or its equivalent from another 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; **or**

**3.1.3 Other Entry:** A person admitted or entitled to be admitted to practice in the State of Queensland.

3.2 Candidates falling within sub-clauses 3.1.2 and 3.1.3 to be eligible for admission must satisfy the following:

3.2.1 Three years' professional experience in the field in which the proposed research work is to be undertaken; **or**

3.2.2 Satisfactory completion of an appropriate master's qualifying program stipulated by the Director of Research and Postgraduate Studies on the recommendation of the Postgraduate Studies Committee. Pending satisfactory completion of a qualifying program, provisional status may be granted to the candidate; **or**

3.2.3 The submission of professional publications or other appropriate evidence which satisfies the Director of Research and Postgraduate Studies on the recommendation of the Faculty's Postgraduate Studies Committee that advanced knowledge and research ability has been acquired in the field of law in which the proposed research work is to be undertaken; **and**

3.2.4 The Dean of the Faculty of Law is satisfied of the ability of the candidate to complete the required research and thesis towards the degree.

#### **4. Admission and Enrolment**

4.1 A person applying for admission shall do so through the Registrar to the Dean.

4.2 Admission of a person as a candidate for the degree shall be at the discretion of the Dean on the recommendation of the Faculty's Postgraduate Studies Committee.

4.3 A person applying for admission as a candidate for the degree shall apply in accordance with the requirements of the Registrar and shall pay all prescribed fees.

4.4 A person admitted as a candidate may enrol as either an internal full-time student or an internal part-time student.

#### **5. Progress Reports**

5.1 A candidate shall prepare annually a statement of the work done towards the degree and submit it to the appointed supervisor.

5.2 The supervisor shall prepare an annual report on the work done by the candidate and the report shall be given to the candidate for comment, and the candidate shall sign the report in acknowledgment of this and return it to the supervisor.

5.3 Both reports together with any accompanying comments by the candidate shall then be forwarded through the Faculty's Postgraduate Studies Committee and the Dean to the University's Research Management Committee.

5.4 Where, in the opinion of the Research Management Committee, a candidate has not made satisfactory progress towards completing the requirements for the degree, the

Research Management Committee on the advice of the Dean shall call upon the candidate to show cause why the enrolment of the candidate should not be terminated for lack of satisfactory progress.

5.5 Upon failure of the candidate to show cause the candidate's enrolment will be terminated.

## **6. Thesis Requirements**

6.1 The thesis submitted for the degree shall be not less than 50,000 words and not more than 60,000 words in length and shall constitute a substantial contribution to knowledge and understanding in the area of the law and subject of the research. It shall include a title page, table of contents and bibliography, and shall otherwise comply with the University's requirements for presenting theses.

6.2 The candidate shall submit a detailed proposal for a topic for the thesis to the Dean not later than the end of February or August, as the case may be, in the year in which the candidate is enrolled.

6.3 The Faculty's Postgraduate Studies Committee may, upon the recommendation of the Dean, vary the title of the thesis topic.

6.4 A candidate enrolled for the degree shall at least once per semester during the period of candidature, consult with the supervisor and, where appropriate, any co-supervisor, appointed by the Law Academic Board on the advice of the Dean.

6.5 A candidate shall submit four copies of the thesis in the form prescribed by the University for the submission of theses to the Dean not later than the end of November or May, as the case may be, in the year in which the candidate is required to complete the degree. On submission of the thesis, the candidate shall furnish a written statement to the effect that the thesis is that candidate's 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.

6.6 The Postgraduate Studies Committee shall refer the thesis to two examiners, at least one of whom must be external to the University. Each examiner shall report, normally within two months of receipt of the thesis, whether in the examiner's opinion, the thesis is of the standard required for the award of the degree. Each examiner shall also recommend that the thesis:

- (i) be accepted;
- (ii) not be accepted; or
- (iii) be accepted subject to amendments to be made to the satisfaction of the supervisor; and
- (iv) if accepted, whether the degree be awarded with First Class Honours, Second Class Honours or as a Pass degree.

6.7 The Faculty's Postgraduate Studies Committee shall forward the examiners' reports to the Law Academic Board together with its recommendation.

6.8 The Academic Board shall thereafter refer the examiners' reports to the Research Management Committee with its recommendations.

6.9 Following final acceptance of the thesis, two copies shall be bound in the prescribed form at the candidate's expense and one copy submitted to the Faculty of Law Library and the other copy submitted to the Queensland University of Technology Library and shall otherwise be treated in accordance with University policy. Any corrections resulting from the examiners' assessment shall be made prior to binding, and by re-typing if they would otherwise be obtrusive.

## **7. Credit for Research Work Done Elsewhere**

7.1 The Dean, on the advice of the Director of Research and Postgraduate Studies, may grant credit toward the Master of Laws degree by Research and Thesis for work done at another institution of similar standing. Such credit shall not be granted unless the candidate provides to the Dean:

- (i) evidence that the candidate has cancelled or terminated enrolment at the other institution; and
- (ii) a written undertaking that the candidate will not seek credit in any form or manner for work done at the other institution or any other institutions except to complete the degree at the Queensland University of Technology.

## **8. Time for Completion Requirements**

8.1 Except in special circumstances and with the approval of the Director of Research and Postgraduate Studies:

- (i) a full-time candidate shall complete all the requirements for the degree not earlier than the end of the second semester and not later than the end of the sixth semester of candidature;
- (ii) a part-time candidate shall complete all the requirements for the degree not earlier than the end of the fourth semester and not later than the end of the tenth semester of the candidature.

8.2 The Dean may, upon the application of the candidate and on the advice of the Director of Research and Postgraduate Studies, extend any time limited by the Rules by such further period as may be consistent with general University rules.

## **9. Award of Degree**

9.1 A candidate who has fulfilled the requirements of these rules and who has otherwise complied with the provisions of all statutes and other rules applicable may be admitted to the degree of Master of Laws at the grade which the Academic Committee on the recommendation of the Law Academic Board and Research Management Committee recommends for the award.

## **■ Master of Legal Practice (LP51)**

**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:** 144 (including 96 credit points for the Graduate Diploma in Legal Practice)

**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 (UG1) 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 LL.M 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 (LPN300)

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 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 Studies Committee. On approval of the topic and the supervisor by the Postgraduate Studies Committee the student shall pursue his/her research for the dissertation under the direction of the supervisor.

The student shall submit four clear typed copies of his/her dissertation to the Director of Legal Practice not later than 18 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/her that the dissertation is their 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 Studies 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 their 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:

- (i) be accepted; or
- (ii) not be accepted; or
- (iii) 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 (LP41)

**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 do not normally coincide with the University's normal semesters. There is a two-week break between the semesters and a one-week break in second semester.

**Total Credit Points:** 96

**Standard Credit Points/Full-time Semester:** 48

**Course Coordinator:** Associate Professor John de Groot

### Entry Requirements\*

- (i) Application is made by lodging a written application with the Director of Legal Practice; attending an interview with the Director or nominee; and complying with University requirements for applying for a place in a postgraduate course.
- (ii) 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; or, in the case of an applicant who enrolled for a Law degree at the University of Queensland prior to 1989, must have obtained 340 credit points towards such a degree.
- (iii) An applicant who does not satisfy the above requirements may apply for special consideration.
- (iv) If there are more eligible applicants than places in the quota, successful applicants will be determined as follows:
  - (a) for no less than the first 75% of quota places, by reference to the order in which applications are received, provided that the necessary interview with the Director takes place on or before the due date for lodgement of applications; and
  - (b) for the remaining quota places, as determined by the Dean having regard to (but not limited to) academic merit, aptitude for completing the course, intention to practise as a solicitor, and/or any relevant matters arising out of the applicant's interview.

### Content

Eight core subject areas are addressed and within these core subjects 24 topic areas are covered. The core subjects and topic areas and the approximate number of hours devoted to them are:

<b>PROPERTY</b>	
Conveyancing Practice	(153.00)
Lease Practice	(109.00)
Securities	(81.25)
Town Planning	(12.50)
<b>COMMERCIAL</b>	
Trade Practices	(12.50)
Commercial Transactions	(82.25)
Company Practice	(60.00)
Insurance Law	(7.00)

\* Under review; subject to final approval.



<b>LITIGATION</b>	
Civil Litigation	(165.50)
Creditors' Remedies	(37.25)
Criminal Law Practice	(38.50)
Industrial Law	(13.50)
<b>FAMILY</b>	
Family Law Practice	(125.25)
Legal Aid	(6.00)
<b>TRUSTS AND ESTATES</b>	
Administration of Estates	(84.25)
Tax & Estate Planning	(25.00)
<b>SKILLS</b>	
Advocacy	(38.00)
Negotiation & Dispute Resolution	(7.00)
Legal Interviewing & Communication	(23.50)
Legal Drafting	(46.75)
Computer Literacy	(16.00)
<b>PROFESSIONAL PRACTICE</b>	
Legal Profession & Professional Conduct	(17.75)
<b>PRACTICE MANAGEMENT</b>	
Accounting & Office Management	(44.75)
Specialised Services	(3.50)

### **Attendance**

- (i) Subject to (ii) below, a student must, throughout the course, attend at the University, or wherever the course is being conducted at any given time, from 9am to 5pm, 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.
- (ii) 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/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/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.

## ■ Bar Practice Course

The Bar Practice Course is offered by the Bar Practice section of the Legal Practice unit located at the Gardens Point campus. The course was first offered in 1983 and is a joint venture between the Bar Association of Queensland and the Queensland University of Technology within the administrative structure of the Faculty of Law. 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 Warden, who is a member of the academic staff of the Faculty of Law.

The objectives of the Bar Practice Course are:

- (i) to develop and enhance the practice skills of candidates for admission to the Bar of the Supreme Court of Queensland;
- (ii) to act as a focus for the continuing education of Barristers in the Supreme Court of Queensland; and
- (iii) 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. Knowledge of substantive law subjects is presumed.

The primary activity of the section is a 13-week course which includes an intensive advocacy weekend workshop, presented to students (readers) who have qualified in Law from universities or the Bar Board, and who wish to practise as Barristers.

Warden: J. Pastellas, BA LLB *Qld*, GDLegalPrac *QIT*, Solicitor of the Supreme Court of Queensland.

## ■ Bachelor of Arts (GU)/Bachelor of Laws (LX32)\*

**Location:** Gardens Point campus/Nathan campus

**Course Duration:** 5 years full-time

**Standard Credit Points/Full-Time Semester:** 50.25

**Course Coordinator:** Ms Iyla Davies

### Full-Time Course Structure for Students with No Prior Knowledge of Japanese Language

#### Year 1, Semester 1

		Credit Points	Contact Hrs/Wk
LWB101	Introduction to Law+	12	3
LWB102	Law of Contract*	12	3
LWB104	Legal Research & Writing 1*	4	1
A3121	Foundation Year: Japan Studies		3
A1104	Basic Japanese I		5

\* For the information of continuing students only. There will be no commencing students enrolled in this course after 1991.

+ Subject extends over two semesters.

**Year 1, Semester 2**

LWB101	Introduction to Law*	12	3
LWB102	Law of Contract*	12	3
LWB104	Legal Research & Writing 1*	4	1
A3121	Foundation Year: Japan Studies		3
A1104	Basic Japanese 1		5

**Year 2, Semester 1**

LWB103	Torts*	12	3
LWB202	Criminal Law & Procedure*	12	3
A1219	Basic Japanese 2		8

**Year 2, Semester 2**

LWB103	Torts*	12	3
LWB202	Criminal Law & Procedure*	12	3
A1221	Basic Japanese 3		8

**Year 3, Semester 1**

LWB201	Land Law*	12	3
LWB203	Constitutional Law*	12	3
LWB301	Equity*	12	3
A1319	Intermediate Japanese 1		8

**Year 3, Semester 2**

LWB201	Land Law*	12	3
LWB203	Constitutional Law*	12	3
LWB301	Equity*	12	3
A1321	Intermediate Japanese 2		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 1		3
	OR		
	Elective		

**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 2		3
	OR		
	Elective		

**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 2*	4	1
LWB309	Succession	8	2
A1347	Advanced Reading Skills in Japanese 1		3
	OR		
	Elective		

**Year 5, Semester 2**

LWB403	Taxation Law*	12	3
LWB404	Civil Procedure*	12	3

\* Subject extends over two semesters.

LWB414	Drafting & Legal Transactions*	8	2
LWB415	Legal Research & Writing 2*	4	1
	One Law Elective Subject	8-12	2-3
LWB409	Professional Conduct (5 weeks)	2	2
A1348	Advanced Reading Skills in Japanese 2		3
	OR		
	Elective		

### 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 1*	4	1
A3121	Foundation Year: Japan Studies		3
A3201	Basic Japanese Oral Communication A		4
	OR		
A3202	Basic Japanese Oral Communication B		4

#### Year 1, Semester 2

LWB101	Introduction to Law*	12	3
LWB102	Law of Contract*	12	3
LWB104	Legal Research & Writing 1*	4	1
A3121	Foundation Year: Japan Studies		3
A3201	Basic Japanese Oral Communication A		4
	OR		
A3202	Basic Japanese Oral Communication B		4

#### Year 2, Semester 1

LWB103	Torts*	12	3
LWB202	Criminal Law & Procedure*	12	3
A1319	Intermediate Japanese 1		8

#### Year 2, Semester 2

LWB103	Torts*	12	3
LWB202	Criminal Law & Procedure*	12	3
A1321	Intermediate Japanese 2		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 1		3
	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 2		3
	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 1		3

\* Subject extends over two semesters.

**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 2		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 2*	4	1
LWB309	Succession	8	2
A3521	Advanced Japanese Project 1		2
	OR		
	Elective		

**Year 5, Semester 2**

LWB403	Taxation Law*	12	3
LWB404	Civil Procedure*	12	3
LWB414	Drafting & Legal Transactions*	8	2
LWB415	Legal Research & Writing 2*	4	1
	One Law Elective Subject	8-12	2-3
LWB409	Professional Conduct (5 weeks)	2	2
A3522	Advanced Japanese Project 2		2
	OR		
	Elective		

**Law Elective Subjects:** Refer to full-time course structure for Bachelor of Laws (LW31).

**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 1	3
A1342	Guided Studies Semester 2	3

\* Subject extends over two semesters.

## ■ Bachelor of Business – Accounting (USQ)/ Bachelor of Laws (LX31)

**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
<b>Year 1, Semester 1</b>			
51002	Introduction to Accounting		4
51004	Management & Organisational Behaviour		4
51008	Business Economics		4
LWB101	Introduction to Law*	12	3
LWB104	Legal Research & Writing 1*	4	1
<b>Year 1, Semester 2</b>			
51103	Financial Accounting		4
75001	Computing		4
75002	Data Analysis		4
LWB101	Introduction to Law*	12	3
LWB104	Legal Research & Writing 1*	4	1
<b>Year 2, Semester 1</b>			
51129	Market Analysis		4
51115	Company Accounting		4
LWB102	Law of Contract*	12	3
LWB103	Torts*	12	3
<b>Year 2, Semester 2</b>			
51111	Financial Management		4
90501	Communications		4
LWB102	Law of Contract*	12	3
LWB103	Torts*	12	3
<b>Year 3, Semester 1</b>			
51112	Business Finance		4
51113	Management Accounting		4
LWB202	Criminal Law & Procedure*	12	3
LWB203	Constitutional Law*	12	3
<b>Year 3, Semester 2</b>			
51116	Accounting Theory		4
90502	Australia, Asia & the Pacific		4
LWB202	Criminal Law & Procedure*	12	3
LWB203	Constitutional Law*	12	4
<b>Year 4, Semester 1</b>			
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
<b>Year 4, Semester 2</b>			
LWB201	Land Law*	12	3
LWB301	Equity*	12	3

\* Subject extends over two semesters.

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
LWB402	Evidence	12	3
LWB403	Taxation Law*	12	3
LWB404	Civil Procedure*	12	3
LWB414	Drafting & Legal Transactions*	8	2
LWB415	Legal Research & Writing 2*	4	1
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 2*	4	1
LWB409	Professional Conduct (5 weeks)	2	2
	One Law Elective Subject	8-12	2-3

**Law Elective Subjects:** Refer to full-time course structure for Bachelor of Laws (LW31).

## ■ Bachelor of Laws (LW31)

**Course Duration:** 4 years full-time, 6 years part-time

**Total Credit Points:** 406

**Standard Credit Points/Full-Time Semester:** 50.75

**Course Coordinator:** Professor Malcolm Cope

Full-Time Course Structure		Credit Points	Contact Hrs/Wk
<b>Year 1, Semester 1</b>			
LWB101	Introduction to Law*	12	3
LWB102	Law of Contract*	12	3
LWB103	Torts*	12	3
LWB104	Legal Research & Writing 1*	4	1
<b>Year 1, Semester 2</b>			
EPB124	Government	12	3
LWB101	Introduction to Law*	12	3
LWB102	Law of Contract*	12	3
LWB103	Torts*	12	3
LWB104	Legal Research & Writing 1*	4	1
<b>Year 2, Semester 1</b>			
LWB201	Land Law*	12	3
LWB202	Criminal Law & Procedure*	12	3
LWB203	Constitutional Law*	12	3
LWB301	Equity*	12	3
<b>Year 2, Semester 2</b>			
LWB201	Land Law*	12	3
LWB202	Criminal Law & Procedure*	12	3

\* Subject extends over two semesters.

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

AYB217	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 2*	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
LWB414	Drafting & Legal Transactions*	8	2
LWB415	Legal Research & Writing 2*	4	1
	One Law Elective Subject	8-12	2-3

### Law Elective Subjects

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/she has passed, an average mark equal to or greater than that required for the award of the LLB with Honours.

\* Subject extends over two semesters.

+ LWB312 Land Contracts shall not be studied before Land Law.



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:

		<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
LWB480	Media Law	12	3
LWB481	Mineral Law	12	3
LWB482	Computers & the Law	12	3
LWB483	Medico-legal Issues	12	3

The **Law Elective Subjects** will be offered as follows:

### First Semester

#### DAY CLASSES

Solicitors' Trust Accounts  
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  
Local Government Law

### Second Semester

#### DAY CLASSES

Family Law  
Land Contracts  
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.

## 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.\*

## Part-Time Internal and External Course Structure

### NOTE FOR EXTERNAL LLB COURSE

The non-Law subjects Introductory Accounting and Government may be taken by enrolling in equivalent subjects at a tertiary institution other than QUT. Equivalents of certain Law subjects may be undertaken at 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
<b>Year 1, Semester 1</b>			
LWB101	Introduction to Law+	12	3
LWB102	Law of Contract	12	3
LWB104	Legal Research & Writing 1+	4	1
<b>Year 1, Semester 2</b>			
EPB124	Government	12	3
LWB101	Introduction to Law+	12	3
LWB102	Law of Contract*	12	3
LWB104	Legal Research & Writing 1+	4	1
<b>Year 2, Semester 1</b>			
LWB103	Torts*	1	3
LWB202	Criminal Law & Procedure+	12	3
LWB203	Constitutional Law*	12	3
<b>Year 2, Semester 2</b>			
LWB103	Torts*	12	3
LWB202	Criminal Law & Procedure+	12	3
LWB203	Constitutional Law+	12	3
<b>Year 3, Semester 1</b>			
LWB201	Land Law+	12	3
LWB301	Equity*	12	3
	One Law Elective Subject	8-12	2-3
<b>Year 3, Semester 2</b>			
LWB201	Land Law+	12	3
LWB301	Equity*	12	3
	One Law Elective Subject	8-12	2-3

\* Subject to review.

+ Subject extends over two semesters.

**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**

AYB217	Introductory Accounting	12	3
LWB401	Company Law & Partnership*	12	3
	One Law Elective Subject	8-12	2-3

**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 2*	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 2*	4	1

**Law Elective Subjects:** Refer to full-time course structure.

**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 – Government and Introductory Accounting – and two Law elective subjects, and may be granted credit for such subjects.

		<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
<b>Year 1, Semester 1</b>			
LWB101	Introduction to Law*	12	3
LWB102	Law of Contract*	12	3
LWB103	Torts*	12	3
LWB104	Legal Research & Writing 1+	4	1
LWB202	Criminal Law & Procedure*	12	3
<b>Year 1, Semester 2</b>			
LWB101	Introduction to Law*	12	3
LWB102	Law of Contract*	12	3
LWB103	Torts*	12	3

\* Subject extends over two semesters.

+ Subjects LWB104 Legal Research and Writing 1 and LWB415 Legal Research and Writing 2 may be studied as optional subjects – they are not required subjects of the LLB course for graduates.

LWB104	Legal Research & Writing 1+	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
LWB402	Evidence	12	3
LWB403	Taxation Law*	12	3
LWB404	Civil Procedure*	12	3
LWB414	Drafting & Legal Transactions*	8	2
LWB415	Legal Research & Writing 2+	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 2+	4	1
	Two Law Elective Subjects	16-24	4-6

**Law Elective Subjects:** Refer to full-time course structure.

### 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 – Government and Introductory Accounting – and two Law elective subjects, and may be granted credit for such subjects.

		<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
<b>Year 1, Semester 1</b>			
LWB101	Introduction to Law*	12	3
LWB102	Law of Contract*	12	3
LWB103	Torts*	12	3
LWB104	Legal Research & Writing 1+	4	1
<b>Year 1, Semester 2</b>			
LWB101	Introduction to Law*	12	3
LWB102	Law of Contract*	12	3

\* *Subject extends over two semesters.*

+ *Subjects LWB104 Legal Research and Writing 1 and LWB415 Legal Research and Writing 2 may be studied as optional subjects – they are not required subjects of the LLB course for graduates.*

LWB103	Torts*	12	3
LWB104	Legal Research & Writing 1+	4	1
<b>Year 2, Semester 1</b>			
LWB201	Land Law*	12	3
LWB202	Criminal Law & Procedure*	12	3
LWB301	Equity*	12	3
<b>Year 2, Semester 2</b>			
LWB201	Land Law*	12	3
LWB202	Criminal Law & Procedure*	12	3
LWB301	Equity*	12	3
<b>Year 3, Semester 1</b>			
LWB203	Constitutional Law*	12	3
LWB303	Commercial Law*	12	3
LWB311	Administrative Law*	12	3
<b>Year 3, Semester 2</b>			
LWB203	Constitutional Law*	12	3
LWB303	Commercial Law*	12	3
LWB311	Administrative Law*	12	3
<b>Year 4, Semester 1</b>			
LWB401	Company Law & Partnership*	12	3
LWB403	Taxation Law*	12	3
	One Law Elective Subject	8-12	2-3
<b>Year 4, Semester 2</b>			
LWB309	Succession	8	2
LWB401	Company Law & Partnership*	12	3
LWB403	Taxation Law*	12	3
	One Law Elective Subject	8-12	2-3
<b>Year 5, Semester 1</b>			
LWB404	Civil Procedure*	12	3
LWB414	Drafting & Legal Transactions*	8	2
LWB415	Legal Research & Writing 2*	4	1
	One Law Elective Subject	8-12	2-3
<b>Year 5, Semester 2</b>			
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 2+	4	1

**Law Elective Subjects:** Refer to full-time course structure.

## ■ Bachelor of Arts (Justice Studies) (JS31)

**Location:** Kelvin Grove campus

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

**Total Credit Points:** 288

\* Subject extends over two semesters.

+ Subjects LWB104 Legal Research and Writing 1 and LWB415 Legal Research and Writing 2 may be studied as optional subjects – they are not required subjects of the LLB course for graduates.

**Standard Credit Points/Full-time Semester: 48**

**Course Coordinator:** Associate Professor Simon Petrie

### Course Structure

The course structure comprises the following:

- (i) eight Justice Studies core units (96 credit points);
- (ii) Justice Studies Major (96 credit points);
- (iii) Professional Minor (48 credit points) and four electives (48 credit points) or second Professional Minor (48 credit points) OR Secondary Major (96 credit points). Details of all Year 2 and 3 subjects are not available at the time of the production of the Handbook. Enquiries may be directed to the Justice Studies office, Kelvin Grove campus telephone (07) 864 3145.

Full-time Course Structure		Credit Contact	Points Hrs/Wk
<b>Year 1, Semester 1</b>			
JSB101	Contemporary Issues in Australian Society 1	12	3
JSB102	Social Ethics and the Justice System	12	3
JSB103	Introduction to the Legal System	12	3
JSB104	Communication for Justice Professionals	12	3
<b>Year 1, Semester 2</b>			
JSB105	Personal and Interpersonal Relationships	12	3
JSB106	Human Resource Management in Justice Administration	12	3
JSB107	Introduction to Criminology	12	3
JSB110	Introduction to Professional Studies: Police Systems	12	3
	OR		
JSB111	Introduction to Professional Studies: Intelligence Systems	12	3
<b>Year 2, Semester 1</b>			
JSB201	Principles of Criminal Law 1	12	3
JSB202	Contemporary Issues in Australian Society 2	12	3
	Minor/Elective*		
JSB210	Professional Studies 1: Law Enforcement Procedure and Practice	12	3
	OR		
JSB211	Professional Studies 1: Intelligence 1	12	3
<b>Year 2, Semester 2</b>			
JSB203	Human Dynamics: the Justice System	12	3
JSB204	Principles of Criminal Law 2	12	3
JSB205	Criminology 2	12	3
JSB212	Professional Studies 2: Law Enforcement & Interprofessional Cooperation	12	3
	OR		
JSB213	Professional Studies 2: Intelligence 2	12	3

\* Details of all electives and Year 3 subjects are not available at the time of production of the Handbook. Enquiries may be directed to the Faculty of Law (Justice Studies), Kelvin Grove campus.

## ■ Associate Diploma in Business (Court and Parliamentary Reporting) (JS21)

**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
<b>Year 1, Semester 1</b>			
ALX102	The Legal Process	12	4
COX102	Written English	12	4
JSX101	Reporting 1	24	10
<b>Year 1, Semester 2</b>			
COX103	Written & Spoken English	12	4
JSX102	Reporting 2	36	14
<b>Year 2, Semester 1</b>			
COX100	Introduction to Organisation	12	4
JSX201	Reporting 3	36	16
<b>Year 2, Semester 2</b>			
EPX103	Political Economy of Australia	12	4
JSX202	Reporting 4	24	12
JSX203	Workplace Experience	12	6





# **FACULTY OF SCIENCE**

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# FACULTY OF SCIENCE

## Course Structures

### ■ Master of Applied Science (SC80)

**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 the 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 is dependent on satisfactory completion of Stage 1 or special permission from the Academic Board. Stage 1 comprises a program of assessed coursework as defined in 3.4 and 3.5 as appropriate for each candidate. Stage 2 comprises 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 is 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 normally gain exemption from most or all of Stage 1 at the discretion of the Academic Board on the recommendation of the Head of School.

3.8 An application for registration should set out systematically and fully the candidate's intended course of study. The description should include the area of study within which the candidate's course lies, the coursework to be undertaken, the proposed title of the thesis to be written, the aim of the proposed program of research and investigation, its background, the significance and possible application of the research program, and the research plan.

#### **4. Period of Time for Completion of Course of Study**

4.1 A full-time candidate who does not hold an honours degree appropriate to the course of study will normally be required to complete both Stage 1 and Stage 2, including submission of the thesis for examination as required in Stage 2, during a period of registration of 24 months. The corresponding period in the case of a part-time candidate shall be 48 months. In special cases the Academic Board may approve a shorter period.

4.2 On successful completion of Stage 1 (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 2 (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 12 months of registration in Stage 2 if a full-time

student, or 24 months if a part-time student. Exemption from all or part of Stage 1 may be granted as indicated in 3.7 above. In special cases the Academic Board may approve a shorter period.

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

## **5. Transfer of Registration**

5.1 Where a candidate has undertaken part of a proposed course of study as a registered student in another institution, this period of registration may, on application in writing to the Academic Board at the time of application for registration, be counted towards the candidate's period of registration in the QUT course. The application must include details of the work already undertaken, the reasons for the transfer and the expected date of completion.

5.2 Applications for transfer normally should be submitted at least 12 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 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 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 and/or the Director of the 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/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 or the Director of the 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 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 2 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 (Medical Physics), Master of Applied Science (Medical Ultrasound) (PH80)

**Location:** Gardens Point campus

**Course Duration:** 2 years full-time, 4 years part-time (plus Summer School)

**Total Credit Points:** Medical Physics (192) Medical Ultrasound (204)

**Standard Credit Points/Full-Time Semester:** 48

### **Course Coordinators:**

Medical Physics Major – Dr Timothy van Doorn

Medical Ultrasound Major – Associate Professor Brian Thomas

**Assistant Coordinator:** Medical Ultrasound Major – Ms Margo Harkness

### **Entry Requirements**

#### **MEDICAL PHYSICS MAJOR**

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, School of Physics. In some instances, a bridging program may be necessary.

#### **MEDICAL ULTRASOUND MAJOR**

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, School of Physics. In some instances, a bridging program may be necessary.

### **Course Requirements**

#### **MEDICAL PHYSICS MAJOR**

To complete Stage 1, 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. PHN154 and PHN353 are not recommended to students in the Medical Physics Major.

### MEDICAL ULTRASOUND MAJOR

To complete Stage 1, 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.

On successful completion of Stage 1 of either major:

- (i) students with GPA <5 will normally graduate with a GradDipAppSc (Medical Physics or Medical Ultrasound); (however, the Head of School may grant permission for such students to continue to Stage 2); while
- (ii) students with GPA >5 will be permitted to:
  - (a) graduate as above, or
  - (b) continue with Stage 2 (which is a further one-year full-time or equivalent) involving a project leading to the award MAppSc.

Stage 1		Credit Points	Contact Hrs/Wk
<b>First Semester</b>			
LSN161	Anatomy & Physiology 1	6	2
PHN101	Analogue Electronics	6	2
PHN102	Introduction to Medical Statistics & Computing	6	2
PHN103	Radiation Physics 1	6	2
PHN104	Radiation Physics 2	8	3
PHN202	Biomechanics	8	3
PHN204	Health & Occupational Physics	8	3
PHN206	Medical Imaging	8	3
PHN351	Ultrasound Equipment 2	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 3*	12	
PHN407	Case Studies*	6	-
<b>Second Semester</b>			
LSN158	Ultrasonic Pathology	6	2
LSN165	Anatomy & Physiology 2	8	3
PHN152	Cross-sectional Anatomy	6	2
PHN153	Ultrasound Equipment 1	6	2
PHN154	Principles of Ultrasound Imaging	6	2
PHN155	Ultrasonic Examination in Obstetrics/Gynaecology	6	2
PHN156	Ultrasonic Examination of the Abdomen	6	2
PHN157	Clinical Ultrasound 1*	12	
PHN301	Microprocessors	8	3
PHN302	Instrumentation	8	3
PHN304	Medical Imaging Science	6	2
PHN402	Radiotherapy	6	2
PHN405	Physiological Measurement	6	2
PHN407	Case Studies*	6	2
<b>Summer School (10 weeks)</b>			
PHN257	Clinical Ultrasound 2*	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, unless special permission is granted.

## **Stage 2**

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 School 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.

The program in Medical Physics commences in February each year. The program in Medical Ultrasound commences in July each year. Applications for both programs are to be made prior to 8 November in the preceding year.

Medical Ultrasound students undertake Stage 1 second semester subjects in their first semester of enrolment, and Stage 1 first semester subjects in their second semester of enrolment.

## **■ Master of Applied Science (Medical Laboratory Science) (LS85)**

**Location:** Gardens Point campus

**Course Duration:** 3 years part-time

**Total Credit Points:** 144

**Standard Credit Points/Full-Time Semester:** 48

**Course Coordinator:** Dr David J. Allan

### **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 and/or Course Coordinator to establish suitability for entrance into the course.

\* Subject extends over two semesters.

+ Subject extends over four semesters.

## 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.

## 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 1993.

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		Credit Points	Contact Hrs/Wk
<b>Year 1, Semester 1</b>			
LWS001	Medicine & the Law	12	3
PUN601	Contemporary Health Care Issues	12	3
<b>Year 1, Semester 2</b>			
LSN102	Cellular Basis of Disease	12	3
LSN110	Molecular Basis of Disease	12	3
<b>Year 2, Semester 1</b>			
LSB538	Molecular Biology	12	5
OR			
PUN602	Health Planning, Management & Evaluation	12	3
LSN150	Epidemiology & Research Strategies	12	3
<b>Year 2, Semester 2</b>			
LSN306	Pathophysiology	12	3
LSN401	Advances in Medical Laboratory Science	12	3
OR			
LSB638	Genetic Engineering	12	5
<b>Year 3, Semester 1</b>			
LSN530	Dissertation 1	12	3
LSB538	Molecular Biology	12	5
LSN510	Clinical Biochemistry 1	12	3
LSN511	Haematology 1	12	3
LSN512	Histopathology 1	12	3
LSN515	Microbiology 1	12	3
LSN517	Immunology 1	12	3
LSN518	Diagnostic Cytology	12	3
LSP120	Advanced Genetic Engineering	12	5
<b>Year 3, Semester 2</b>			
LSN531	Dissertation 2	12	3
LSB638	Genetic Engineering	12	5
LSN610	Clinical Biochemistry 2	12	3
LSN611	Haematology 2	12	3
LSN612	Histopathology 2	12	3
LSN615	Microbiology 2	12	3
LSN617	Immunology 2	12	3
LSN618	Diagnostic Cytology 2	12	3
LSP105	Molecular Diagnosis of Disease	12	5

## ■ Graduate Diploma in Applied Science (SC71)

No enrolments are accepted directly into this course. For details see Course Rules for Master of Applied Science (SC80) (paragraph 4.2).

## ■ Graduate Diploma in Applied Science (Medical Physics), Graduate Diploma in Applied Science (Medical Ultrasound) (PH71)

No enrolments are accepted directly into this course. For details see Course Rules for Master of Applied Science (Medical Physics); Master of Applied Science (Medical Ultrasound) (PH80).

## ■ Graduate Diploma in Biotechnology (LS70)

**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 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 School, and are employed in the biotechnology area.

The full-time course is the part-time course (over two years) condensed into one year.

Part-Time Course Structure		Credit Points	Contact Hrs/Wk
<b>Year 1, Semester 1</b>			
LSB538	Molecular Biology	12	5
LSB548	Biochemical Separations	12	5
<b>Year 1, Semester 2</b>			
LSB638	Genetic Engineering	12	5
CHP120	Biochemical Engineering	12	5
<b>Year 2, Semester 1</b>			
LSP127	Topics in Biotechnology	12	5
LSP120	Advanced Genetic Engineering	12	5
	OR		
CHP320	Downstream Processing	12	5

## Year 2, Semester 2

LSP145	Project	12	3
LSB608	Biochemistry 6	12	5
	OR		
LSP105	Molecular Diagnosis of Disease	12	5

## ■ 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) (SC60)

One year honours programs in Biology, Chemistry, Geology, Mathematics and Medical Physics.

**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 Coordinators:

Biology Major – Dr Alan Bailey

Chemistry Major – Dr John Bastley

Geology Major – Associate Professor David Gust

Mathematics Major – Associate Professor Helen MacGillivray

Medical Physics Major – Mr Ross Dunlop

### Entry Requirements

To be eligible for admission, students should have completed the University's Bachelor of Applied Science (SC30 or MA34) 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.

Please note that for the Mathematics major, other degrees with major studies in Mathematics (including Statistics) may provide suitable entry to the program.

### Course Structure

The honours program is comprised of 96 credit points. The course structure may vary slightly from one student to another, depending on the program and particular subjects chosen.

Part-time candidates undertake annually approximately half of the full-time program. Classes are held at the same times as for full-time students and thus may involve some day release.

Students should consult the Coordinator concerning the availability of subjects and selection of subjects for their major.

### Course Structure

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
IFN001	Advanced Information Retrieval Skills	4	1
SCB702	Complementary Studies*	16	6
LSB700	Project* (Biology major)	40	
CHB700	Project* (Chemistry major)	40	
ESB700	Project* (Geology major)	48	
MAB989	Project* (Mathematics major)	36	
PHB705	Project* (Medical Physics major)	48	

\* Subject extends over two semesters.

## Advanced Topics selected from:

### BIOLOGY MAJOR

LSB801	Advanced Plant Physiology & Biochemistry	9	4
LSB803	Data Handling, Interpretation & Biometrics	9	4
LSB804	Advanced Studies in Population Management	9	4
SCB703	Studies in Global Systems A	9	3
SCB704	Studies in Global Systems B	6	2
SCB705	Advanced Microscopy Techniques	9	4

### CHEMISTRY MAJOR

#### Mandatory subjects:

CHB780	Advanced Topics in Chemistry 1	12	6
CHB880	Advanced Topics in Chemistry 2	12	6

### GEOLOGY MAJOR

ESB701	Geology Case Studies*	10	3
ESB710	Hydrology & Environmental Geology	6	2
ESB711	Advanced Resource Geology	6	2
ESB712	Advanced Engineering Geology	6	2
ESB713	Petrochemistry	6	2
ESB714	Global Plate Tectonics	6	2

### Electives

Students choose two subjects from a selection of Chemistry and other relevant disciplines.

### MATHEMATICS MAJOR

Students select five subjects each of 12 credit-points, plus completing a project of 36 credit points.

ITN502	Computer Security	12	4
MAB906	Topics in Analysis	12	4
MAB920	Coding & Encryption Techniques	12	3
MAB929	Time Series & Statistical Forecasting	12	4
MAB970	Probability Theory & Stochastic Processes	12	4
MAB971	Advanced Mathematics of Finance	12	4
MAB972	Error Correction & Data Compression	12	4
MAB973	Partial Differential Equations	12	4
MAB974	Sampling & Survey Techniques	12	4
MAB975	Ordinary Differential Equations & Chaos	12	4
MAB976	Reliability & Survival Analysis	12	4
MAB977	Scheduling & Networks	12	4
MAB978	Statistical Signal Processing & Image Analysis	12	4
MAB979	Statistical Modelling & Data Analysis	12	4
MAB980	Stochastic Processes & Applications	12	4
MAB981	Applied Statistical Inference & Experimentation	12	4
MAB982	Advanced Topics in Cryptology	12	4
MAB983	Finite Mathematics (electives from UQ Honours Program in Finite Mathematics)	24	8
MAB984	Actuarial Statistics	12	4
MAB985	Numerical Analysis	12	4
MAB986	Mathematical Modelling of Industrial Processes	12	4
MAB987	Optimisation of Controlled Processes	12	4

### MEDICAL PHYSICS MAJOR

PHB701	Topics in Medical Physics 1	12	4
PHB702	Topics in Medical Physics 2	12	4
PHB703	Topics in Medical Physics 3	12	4
PHB704	Topics in Medical Physics 4	12	4

\* Subject extends over two semesters.

## ■ Bachelor of Applied Science (Honours) with Major in Life Science (LS65)

**Location:** Gardens Point campus

**Course Duration:** 1 year full-time

**Total Credit Points:** 96

**Standard Credit Points/Full-Time Semester:** 48

**Course Coordinator:** Associate Professor James Dale

Full-Time Course Structure		Credit Points	Contact Hrs/Wk
<b>Semester 1</b>			
LSB722	Research Strategies 1	8	3
LSB723	Readings in Life Science 1	25	1
LSB725	Project*	10	
and 10 credit points from one of the following:			
LSB732	Biochemical Separations	10	5
LSB734	Analytical Electron Microscopy	10	5
LSB736	Advanced Genetic Engineering	10	5
LSB738	Molecular Biology	10	5
LSB750	Advanced Aquaculture	10	5
OR			
Another subject approved by the Head of School			
<b>Semester 2</b>			
LSB725	Project*	10	
LSB822	Research Strategies 2	8	3
LSB823	Readings in Life Science 2	25	1
and 10 credit points from one of the following:			
CHP120	Biochemical Engineering	12	6
LSB801	Advanced Plant Physiology & Biochemistry	9	4
LSB803	Data Handling Interpretation & Biometrics	9	4
LSB804	Advanced Studies in Population Management	9	4
LSB805	Molecular Diagnosis of Disease	9	5
LSB835	Genetic Engineering	10	5
LSB845	Analytical Biochemistry	10	5
OR			
Another subject approved by the Head of School			

## ■ Bachelor of Applied Science with Majors in Biology, Chemistry, Microbiology/Biochemistry, Geology, Mathematics, Physics (SC30)

**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

\* Subject extends over two semesters.



### **Course Rules**

1. A student may enrol as either a full-time or a part-time student. A full-time student is one who is enrolled in 36 or more credit points per semester. A part-time student is one who is enrolled in less than 36 credit points in the semester.
2. All commencing students and certain continuing 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 enrolls in an average of 48 credit points per semester for six semesters and a part-time student enrolls in an average of 24 credit points per semester for 12 semesters.
4. To fulfil the requirements for the award of the degree, a student must complete subjects totalling at least 288 credit points, comprising major and minor studies, and supporting subjects.

Major and minor studies are defined in terms of the discipline and the academic level at which subjects are offered:

- (i) 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 120 credit points from the second and third schedules, including a minimum of 48 credit points at third level. The general requirements for each major are set out in Table 1.
- (ii) A minor may be completed in any approved discipline within the University. Completion of a minor consists of passing subjects totalling at least 48 credit points from the second and third levels, and including at least 24 credit points at third level.

Major and minor studies may be undertaken in the same or in closely related discipline areas.

5. A registered student who has successfully 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 Program.

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 subject SCB100 Cooperative Education. On completion of the approved cooperative education placement the student resumes formal studies.

### **Notes on the Rules**

- (i) First, second and third level subjects are defined, respectively, to be those listed in the first, second and third schedules to the course rules. In general, it is expected that a second level subject will have one or more first level prerequisite subjects. Similarly, a third level subject is likely to have one or more second level prerequisite subjects. The subject schedules are shown in Table 2.
- (ii) Instead of the major and minor requirement described in Rule 3, students may, in special circumstances and with the written approval of the Dean, undertake two majors or a major and two minors.

### **Table 1 – General requirements for majors**

The subjects and specifications listed are the minimum requirements for completion of a major in each discipline.

<b>Major</b>	<b>First Level</b>	<b>Second &amp; Third Level</b>
Biology	Biology 1 Biology 2 OR Cell Biology Chemistry 1 and 2 Maths 1 Statistics	120 credit points of Biology subjects including 48 from the third level
Chemistry	Chemistry 1 and 2 At least 36 credit points from other first level Science subjects OR Computing	120 credit points of Chemistry subjects including 48 from the third level
Geology	Earth Science 1 and 2 At least 48 credit points from other first level Science subjects OR Computing OR Introduction to Computing	120 credit points of Geology subjects including 48 from the third level
Mathematics	Mathematics 1 and 2 Discrete Mathematics Statistics Introduction to Computing	120 credit points of Mathematics subjects including 48 from the third level
Microbiology/ Biochemistry	Cell Biology Chemistry 1 and 2 Statistics At least 12 credit points from other first level science subjects OR Computing OR Introduction to Computing	120 credit points of Microbiology/Biochemistry subjects including 48 from the third level
Physics	Physics 1 and 2 Maths 1 and 2 Statistics* Computing*	120 credit points of Physics subjects including 48 from the third level Mathematics 3 Mathematics 4

\* These subjects need not be taken in First Year.

**Table 2 - Schedule of Subjects**  
**First Schedule - First Level Subjects**

		<b>Semester Offered</b>	<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
CHB182	Chemistry 1	1,2	12	6
CHB282	Chemistry 2	1,2	12	6
CSB155	Introduction to Computing	1,2	12	3
CSB263	Computing	1,2	12	3
ESB122	Earth Science 1	1	12	5
ESB222	Earth Science 2	2	12	5
LSB122	Biology 1	1	12	5
LSB222	Biology 2	2	12	5
LSB232	Cell Biology	2	12	5
MAB212	Mathematics 1	1,2	12	4
MAB222	Mathematics 2	1,2	12	4
MAB232	Discrete Mathematics	1,2	12	4
MAB237	Statistics	1,2	12	4
PHB122	Physics 1	1	12	5
PHB222	Physics 2	2	12	5
SCB001	Learning at University*	1	2	1

**INTRODUCTORY SUBJECTS**

CHB001	Introductory Chemistry	1,2	6	3
LSB001	Introductory Biology	1	6	3
PHB001	Introductory Physics	1,2	6	3

**OTHER SUBJECTS**

Students may take subjects from any discipline within the University. Some other subjects offered at first level are listed below:

COB136	Professional Communication	1,2	6	3
LSB242	Human Anatomy & Physiology	1,2	12	5
MAB102	Basic Mathematics	1	12	4
MAB213	Mathematics 1A	1	12	4
MAB447	Statistics 1A	1	12	4
PHB150	Physics 1H	1	12	6
PHB250	Physics 2H	2	10	4
SCB222	Exploration of the Universe	2	12	5

Second Schedule - Second Level Subjects		Semester Offered	Credit Points	Contact Hrs/Wk
CHB313	Analytical Chemistry 3	1	12	5
CHB333	Inorganic Chemistry 3	1	12	5
CHB423	Chemical Technology 4	2	12	5
CHB352	Organic Chemistry 3	1	12	5
CHB453	Organic Chemistry 4	2	12	5
CHB372	Chemistry 3	1	12	5
CHB473	Physical Chemistry 4	2	12	5
ESB302	Geology of the SW Pacific	1	12	2.5
ESB312	Mineralogy & Optical Mineralogy	1	12	5
ESB342	Structural Geology	1	12	5
ESB362	Economic Mineral Deposits	1	12	5
ESB392	Field Techniques and Studies	1	12	5
ESB422	Sedimentology & Sedimentary Petrology	2	12	5
ESB442	Geomorphology	2	12	5
ESB452	Geochemistry	2	12	5
ESB462	Lithology	2	12	5
LSB302	Animal Biology 1	1	12	5
LSB312	Marine Studies	1	12	5
LSB322	Plant Biology	1	12	5
LSB332	Plant Physiology 1	1	12	5
LSB352	Population Ecology	1	12	5
LSB362	Quantitative Methods in Life Science	1	12	5
LSB402	Animal Biology 2	2	12	5
LSB412	Applied Ecology A	2	12	5
LSB422	Applied Ecology B	2	12	5
LSB432	Genetics	2	12	5
LSB442	Plant Tissue Culture 1	2	12	5
LSB308	Biochemistry 3	1,2	12	5
LSB318	Biochemical Methodology 3	1	12	5
LSB328	Microbiology 3	1	12	5
LSB358	Physiology 2S	1	12	5
LSB408	Biochemistry 4	1,2	12	5
LSB418	Biochemical Methodology 4	2	12	5
LSB428	Microbiology 4	2	12	5
LSB438	Immunology 4	2	12	5
LSB458	Physiology 3S	2	12	5
MAB342	Mathematics of Finance	1,2	12	4
MAB420	Finite Mathematics	1	12	4
MAB421	Computational Mathematics	1,2	12	4
MAB422	Topics in Mathematics	1	12	4
MAB430	Linear Algebra & its Applications	2	12	4
MAB432	Mathematics 3	1	12	4

MAB447	Statistics 1A	1,2	12	4
MAB448	Statistics 1B	1,2	12	4
MAB452	Mathematics 4	2	12	4
MAB462	Vector Analysis	1,2	12	4
PHB322	Physics 3A	1	12	5
PHB332	Physics 3B	1	12	5
PHB342	Physics 3C	1	12	5
PHB352	Electronics 1	1	12	5
PHB422	Physics 4A	2	12	5
PHB432	Physics 4B	2	12	5
PHB442	Astronomy & Astrophysics	2	12	5
PHB452	Electronics 2	2	12	5
PHB462	Experimental Physics 4	2	12	5

#### OTHER SUBJECTS

Students may take subjects from any discipline within the University. Some other subjects offered at second level are listed below.

PUB353	Consumer Food	1	12	4
PUB405	Human Nutrition	2	12	5

#### Cooperative Education Program

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 subject SCB100 Cooperative Education. On completion of the approved cooperative education placement the student resumes formal studies.

#### Third Schedule - Third Level Subjects

		Semester Offered	Credit Points	Contact Hrs/Wk
CHB510	Instrumental Analysis	1	8	4
CHB527	Chemical Technology 5	1	8	4
CHB530	Inorganic Chemistry 5	1	8	3
CHB551	Organic Chemistry 5C	1	8	3
CHB571	Physical Chemistry 5C	1	8	3
CHB590	Materials Science	1	8	3
CHB600	Project	2	20	10
CHB610	Advanced Analysis	2	4	2
CHB627	Chemical Technology 6	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	2	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
LSB622	Case Studies	2	12	5
LSB642	Plant Tissue Culture 2	1	12	5
LSB980	Environmental Monitoring	1	8	3
LSB981	Field Studies 2	1	8	3
LSB982	Selected Topics 1	1	8	3
LSB983	Population Genetics	1	8	3
LSB984	Projects 1	1	16	6
LSB985	Biological Resources	2	8	3
LSB986	Aquaculture 2	1	8	3
LSB987	Selected Topics 2	2	8	3
LSB988	Plant Physiology	2	8	3
LSB989	Population Management	2	8	3
LSB990	Projects 2	2	16	6
LSB991	Hydrobiology & Aquaculture	2	8	3
LSB508	Biochemistry 5	1	12	5
LSB528	Microbial Physiology & Metabolism	1	12	5
LSB538	Molecular Biology	1	12	5
LSB548	Biochemical Separations	1	12	5
LSB558	Applied Physiology	1	12	5
LSB568	Electron Microscopy	1	12	5
LSB608	Biochemistry 6	2	12	5
LSB618	Analytical Biochemistry	2	12	5
LSB628	Applied Microbiology	2	12	5
LSB638	Genetic Engineering	2	12	5
LSB648	Microbial Technology	2	12	5
LSB658	Clinical Physiology	2	12	5
LSB992	Virology 5	1	8	3
MAB720	Introduction to Cryptology	1	12	4
MAB721	Actuarial Mathematics	1	12	4
MAB722	Vector Field Theory	2	12	4
MAB725	Mechanics	1	12	4
MAB728	Numerical Methods 1	1	12	4
MAB729	Numerical Methods 2	1	8	3
MAB747	Statistics 2A	1	12	4
MAB748	Statistics 2B	2	8	3
MAB777	Operations Research 1A	1	12	4
MAB778	Operations Research 1B	2	8	3
PHB501	Applied Quantum Mechanics	1	8	3
PHB502	Electromagnetic Field Theory	1	8	3
PHB508	Electronics 3	1	8	3
PHB510	Physical Methods of Analysis	1	8	3
PHB516	Experimental Physics 5	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

#### OTHER SUBJECTS

Students may take subjects from any discipline within the University. Some other subjects offered at third level are listed below.

PUB631	Nutritional Biochemistry	2	12	5
SCB510	Introduction to Quality Management	1	8	3

**Note:** Third level Chemistry, Geology, Mathematics and Physics subjects will be restructured to 12 credit points subjects commencing 1993.

## ■ Bachelor of Applied Science (Applied Chemistry) (CH32)

**Location:** Gardens Point campus

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

**Total Credit Points:** 288 (minimum)

**Standard Credit Points/Full-Time Semester:** 48

**Course Coordinator:** Mr Eric O'Reilly

		<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
<b>Year 1, Semester 1</b>			
SCB001	Learning at University	2	1
CHB173	Chemistry 1A	12	6
CHB183	Chemistry 1B	12	6
MAB212	Mathematics 1	12	4
PHB122	Physics 1	12	5
<b>Year 1, Semester 2</b>			
CHB283	Chemistry 2A	12	5
CHB253	Chemistry 2B	12	5
CSB263	Computing	12	4
MAB237	Statistics	12	4
<b>Year 2, Semester 1</b>			
CHB313	Analytical Chemistry 3	12	5
CHB333	Inorganic Chemistry 3	12	5
CHB353	Organic Chemistry 3A	12	5
CHB373	Physical Chemistry 3A	12	5
<b>Year 2, Semester 2</b>			
CHB423	Chemical Technology 4	12	5
CHB453	Organic Chemistry 4	12	5
CHB473	Physical Chemistry 4	12	5
	Elective	12	
<b>Year 3, Semester 1 (First Offering 1993)</b>			
CHB513	Instrumental Analysis 5	12	5
CHB523	Chemical Technology 5	12	5
Two of:			
CHB533	Inorganic Chemistry 5	12	5
CHB553	Organic Chemistry 5	12	5
CHB573	Physical Chemistry 5	12	5
	Elective	12	
<b>Year 3, Semester 2 (First Offering 1993)</b>			
CHB613	Instrumental Analysis 6	12	5
CHB623	Chemical Technology 6	12	5
CHB693	Materials Chemistry	12	5
One of:			
CHB603	Project	12	5
CHB643	Applied Spectroscopy	12	5
CHB653	Applied Biological Chemistry	12	5
CHB663	Environmental Chemistry	12	5
	Elective	12	

**Year 3, Semester 1 (Final Offering 1992)**

CHB510	Instrumental Analysis	8	4
CHB527	Chemical Technology 5	8	4
CHB530	Inorganic Chemistry 5	8	3
CHB550	Organic Chemistry 5	8	4
CHB570	Physical Chemistry 5	8	4
CHB590	Material Science	8	3
	Elective Subject for Strand*		
LSB300	A Microbiology 3	6	3
	OR		
PHB508	B Electronics 3	8	3
	OR		
ESB520	C Applied Geochemistry	8	3

**Year 3, Semester 2 (Final Offering 1992)**

CHB600	Project	20	10
CHB610	Advanced Analysis	4	2
CHB627	Chemical Technology 6	4	2
CHB640	Chemistry 6	4	2
CHB660	Industrial Visits	2	1
HRB122	Management	4	1
	Chemistry Elective		
CHB628	Energy Technology	6	3
	OR		
CHB690	Advanced Materials Science	8	3
	OR		
	Other Approved Chemistry Elective		
	Elective subject for Strand*		
LSB400	A Microbiology 4	8	4
	OR		
CHB618	B Laboratory Automation	8	3
	OR		
ESB462	C Lithology	8	3

**Cooperative Education Program**

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 subject SCB100 Cooperative Education. On completion of the approved industrial experience the student resumes formal studies.

**Part-Time Course Structure**

		<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
<b>Year 1, Semester 1</b>			
CHB173	Chemistry 1A	12	6
PHB122	Physics 1	12	5
SCB001	Learning at University	2	1
<b>Year 1, Semester 2</b>			
CHB183	Chemistry 1B	12	6
MAB212	Mathematics 1	12	4

\* Elective Strand is indicated by: A: Biochemistry/Microbiology; B: Computing/Electronics; or C: Geology.

**Year 2, Semester 1**

CHB283	Chemistry 2A	12	5
MAB237	Statistics	12	4

**Year 2, Semester 2**

CHB253	Chemistry 2B	12	5
CSB263	Computing	12	4

**Year 3, Semester 1**

CHB353	Organic Chemistry 3A	12	5
CHB373	Physical Chemistry 3A	12	5

**Year 3, Semester 2**

CHB473	Physical Chemistry 4	12	5
CHB453	Organic Chemistry 4	12	5

**Year 4, Semester 1**

CHB313	Analytical Chemistry 3	12	5
CHB333	Inorganic Chemistry 3	12	5

**Year 4, Semester 2**

CHB423	Chemical Technology 4	12	5
	Elective	12	

**Year 5, Semester 1 (First Offering 1993)**

CHB513	Instrumental Analysis 5	12	5
CHB523	Chemical Technology 5	12	5

**Year 5, Semester 2 (First Offering 1993)**

CHB613	Instrumental Analysis 6	12	5
CHB623	Chemical Technology 6	12	5

**Year 6, Semester 1 (First Offering 1994)**

Two of:

CHB533	Inorganic Chemistry 5	12	5
CHB553	Organic Chemistry 5	12	5
CHB573	Physical Chemistry 5	12	5
	Elective	12	

**Year 6, Semester 2 (First Offering 1994)**

CHB693	Materials Chemistry	12	5
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One of:

CHB653	Applied Biological Chemistry	12	5
CHB663	Environmental Chemistry	12	5
CHB601	Project*	12	5

**Year 5, Semester 1 (Final Offering 1992)**

CHB550	Organic Chemistry 5	8	4
CHB570	Physical Chemistry 5	8	4
	Elective Subject for Strand+		
LSB300	A Microbiology 3	6	3
	OR		
PHB508	B Electronics 3	8	3
	OR		
ESB520	C Applied Geochemistry	8	3

\* Subject extends over two semesters.

+ Elective Strand is indicated by: A: Biochemistry/Microbiology; B: Computing/Electronics; or C: Geology.



**Year 5, Semester 2 (Final Offering 1992)**

CHB527	Chemical Technology 5	8	4
CHB530	Inorganic Chemistry 5	8	3
CHB590	Material Science	8	3
	Elective Subject for Strand		
LSB400	A Microbiology 4	8	4
	OR		
CHB618	B Laboratory Automation	8	3
	OR		
ESB417	C Petrography	8	3

**Year 6, Semester 1 (Final Offering 1993)**

CHB510	Instrumental Analysis	8	4
CHB601	Project*	10	4
CHB627	Chemical Technology 6	4	2
CHB640	Chemistry 6	4	2

**Year 6, Semester 2 (Final Offering 1993)**

CHB601	Project*	10	6
CHB610	Advanced Analysis	4	2
CHB660	Industrial Visits	2	1
HRB122	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) (MA34)****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 Clif Bothwell**Course Requirements**

A student selects subjects from the list given below, having regard to specified prerequisites and co-requisites, and must complete:

- (i) all subjects from List A;
- (ii) at least 36 credit points from List B;
- (iii) at least 144 credit points from Lists C and D with at least 48 credit points from List D;
- (iv) a minimum of 288 credit points.

\* 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.

List A		Semester Offered	Credit Points	Contact Hrs/Wk
CSB155	Introduction to Computing	1,2	12	4
MAB301	Calculus and Analysis A	1,2	12	4
MAB303	Algebra and Analysis B	1,2	12	4
MAB347	Statistics 1A	1,2	12	4
<b>List B</b>				
MAB304	Calculus and Vector Algebra	1,2	12	4
MAB321	Computational Mathematics	1,2	12	4
MAB342	Mathematics of Finance	1,2	12	4
MAB348	Statistics 1B	1,2	12	4
<b>List C</b>				
MAB601	Multivariable Calculus	1	12	4
MAB602	Vector Field Theory	2	12	4
MAB612	Differential Equations	2	12	4
MAB618	Numerical Analysis 1	1	12	4
MAB619	Numerical Analysis 2	2	8	3
MAB620	Finite Mathematics	1	12	4
MAB630	Linear Algebra & its Applications	2	12	4
MAB635	Mechanics	1	12	4
MAB637	Operations Research 1A	1	12	4
MAB638	Operations Research 1B	2	8	3
MAB641	Actuarial Mathematics	1	12	4
MAB647	Statistics 2A	1	12	4
MAB648	Statistics 2B	2	8	3
Electives [a maximum total of 72 credit points with not more than 48 at first level]		1,2	8-12ea	3-6ea
<b>List D</b>				
MAB906	Topics in Analysis	1	12	4
MAB907	Statistics 3A	1	12	4
MAB908	Statistics 3B	2	12	4
MAB913	Numerical Analysis 3	2	12	4
MAB920	Coding & Encryption Technique	1	12	4
MAB927	Operations Research 2A	1	12	4
MAB928	Operations Research 2B	2	12	4
MAB929	Time Series & Statistical Forecasting	1	12	4
MAB941	Mathematical Modelling in Economics	2	12	4
MAB942	Optimisation Methods	1	12	4
MAB960	Project Work	1,2	12	4
MAB973	Partial Differential Equations	2	12	4
MAB970	Probability Theory & Stochastic Processes	1	12	4
MAB971	Advanced Mathematics of Finance	2	12	4
MAB972	Error Correction & Data Compression	2	12	4
MAB974	Sampling & Survey Techniques	2	12	4
MAB975	Ordinary Differential Equations & Chaos	1	12	4
SCB510	Introduction to Quality Management	1	8	3

### Cooperative Education Program

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 subject SCB100 Cooperative Education. On completion of the approved Cooperative Education placement the student resumes formal studies.

## ■ Bachelor of Applied Science (Medical Laboratory Science) (LS36)

**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:** Miss Pam Stallybrass

### 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

Students in the part-time program should be aware that they are required to attend much of their program during the day.

From 1992, students in this course is required to undertake a 2-4 week work experience program in a practising pathology laboratory. This takes place at the end of the second year full-time and in a suitable vacation period during the part-time program. This is a requirement for the subject LSB480 Professional Practice.

### Full-Time Course Structure

		Credit Points	Contact Hrs/Wk
<b>Year 1, Semester 1</b>			
CHB142	Chemistry 1	12	6
ISB382	Microcomputer Applications	8	3
LSB130	Anatomy 1	8	3
LSB100	Microbiology 1	8	3
PHB150	Physics 1H	12	6
<b>Year 1, Semester 2</b>			
CHB242	Chemistry 2	12	6
LSB210	Quantitative Laboratory Techniques 2	12	5
LSB230	Anatomy 2	8	3
LSB240	Physiology 2	8	4
PHB262	Physics 2L	8	4
<b>Year 2, Semester 1</b>			
CHB382	Chemistry 3	4	2
LSB300	Microbiology 3	8	4
LSB308	Biochemistry 3	12	5
LSB310	Quantitative Laboratory Techniques 3	8	4
LSB330	Introductory Biotechnology	8	4
LSB340	Physiology 3	8	4
<b>Year 2, Semester 2</b>			
LSB400	Microbiology 4	8	4
LSB408	Biochemistry 4	12	5
LSB430	Immunology 4	8	4
LSB450	Haematology 4	8	4
LSB460	Histopathology 4	8	4
LSB470	Disease Processes 4	4	2

**Year 3, Semester 1**

LSB500	Microbiology 5	16	7
LSB520	Clinical Biochemistry 5	8	4
LSB530	Immunology 5	8	4
LSB550	Haematology 5	8	4
LSB560	Histopathology 5	8	4

**Year 3, Semester 2**

LSB600	Clinical Bacteriology 6	16	7
LSB620	Clinical Biochemistry 6	8	4
LSB630	Immunohaematology 6	8	4
LSB650	Haematology 6	8	4
LSB660	Histopathology 6	8	4

**Part-Time Course Structure**

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

**Year 1, Semester 1**

CHB142	Chemistry 1	12	6
LSB100	Microbiology 1	8	3
LSB130	Anatomy 1	8	3

**Year 1, Semester 2**

CHB242	Chemistry 2	12	6
LSB230	Anatomy 2	8	3
LSB240	Physiology 2	8	4

**Year 2, Semester 1**

ISB382	Microcomputer Applications	8	3
LSB300	Microbiology	8	4
PHB150	Physics 1H	12	6

**Year 2, Semester 2**

PHB262	Physics 2L	8	4
LSB210	Quantitative Laboratory Techniques 2	12	5

**Year 3, Semester 1**

CHB382	Chemistry 3	4	2
LSB310	Quantitative Laboratory Techniques 3	8	4
LSB308	Biochemistry 3	12	5

**Year 3, Semester 2**

LSB400	Microbiology 4	8	4
LSB408	Biochemistry 4	12	5
LSB470	Disease Processes 4	4	2

**Year 4, Semester 1**

LSB330	Introductory Biotechnology	8	4
LSB340	Physiology 3	8	4
LSB400	Microbiology 4	8	4

**Year 4, Semester 2**

LSB430	Immunology 4	8	4
LSB450	Haematology 4	8	4
LSB460	Histopathology 4	8	4

**Year 5, Semester 1**

LSB520	Clinical Biochemistry 5	8	4
LSB550	Haematology 5	8	4
LSB560	Histopathology 5	8	4

**Year 5, Semester 2**

LSB620	Clinical Biochemistry 6	8	4
LSB650	Haematology 6	8	4
LSB660	Histopathology 6	8	4

**Year 6, Semester 1**

LSB600	Clinical Bacteriology 6	16	7
LSB530	Immunology 5	8	4

**Year 6, Semester 2**

LSB500	Microbiology 5	16	7
LSB630	Immunohaematology 6	8	4

## **Bachelor of Applied Science (Medical Radiation Technology) with Majors in Medical Imaging Technology and Radiotherapy Technology (PH38)**

**Location:** Gardens Point campus

**Course Duration:** 3 years full-time

**Total Credit Points:** 288

**Standard Credit Points/Full-Time Semester:** 48

**Course Coordinator:** Associate Professor Brian J. Thomas

**Assistant Coordinators:**

Medical Imaging Technology Major – Ms Pam Rowntree

Radiotherapy Technology Major – Ms Jan Veitch

<b>Full-Time Course Structure</b>		<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
<b>Year 1, Semester 1</b>			
COMMON SUBJECTS			
COB135	Professional Communication	6	3
LSB141	Anatomy & Physiology 1	10	4
MAB151	Quantitative Techniques	4	2
SSB910	Introductory Psychology for Health Professionals	4	2
NSB201	Principles of Patient Care	4	2
PHB111	Physics 1B	8	3
PHB178	Principles of Medical Radiations	10	5
<b>Year 1, Semester 2</b>			
COMMON SUBJECTS			
LSB221	Introduction to Pathology	6	3
LSB241	Anatomy & Physiology 2	10	4
PHB272	Radiation Physics 1	12	5
<b>MEDICAL IMAGING TECHNOLOGY MAJOR</b>			
PHB275	Processing Technology	4	2
PHB276	General Radiography 1	14	7
PHB279	Clinical Radiography 1	4	2

**RADIOTHERAPY TECHNOLOGY MAJOR**

PHB286	Treatment Planning 1	12	6
PHB287	Megavoltage Therapy 1	6	3
PHB289	Clinical Radiotherapy 1	4	2

**Year 2, Semester 1****COMMON SUBJECTS**

LSB321	Systematic Pathology	8	3
LSB341	Regional & Sectional Anatomy	8	4

**MEDICAL IMAGING TECHNOLOGY MAJOR**

PHB373	Nuclear Medicine Imaging 1	4	2
PHB374	Radiographic Equipment 1	6	3
PHB376	General Radiography 2	12	5
PHB379	Clinical Radiography 2	10	5

**RADIOTHERAPY TECHNOLOGY MAJOR**

PHB382	Radiotherapy Physics 1	4	2
PHB386	Treatment Planning 2	8	4
PHB387	Megavoltage Therapy 2	10	5
PHB389	Clinical Radiotherapy 2	10	5

**Year 2, Semester 2****COMMON SUBJECTS**

PHB475	Medical Radiation Computing 1	8	3
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**MEDICAL IMAGING TECHNOLOGY MAJOR**

LSB441	Imaging Anatomy	8	4
PHB473	Medical Ultrasound	4	2
PHB474	Radiographic Equipment 2	4	2
PHB476	Special Procedures	8	3
PHB479	Clinical Radiography 3	8	4
PHB573	Digital Imaging Modalities	6	2

**RADIOTHERAPY TECHNOLOGY MAJOR**

PHB481	Dosimetry	6	3
PHB482	Radiotherapy Physics 2	6	3
PHB484	Principles of Treatment 1	6	3
PHB487	Megavoltage Therapy 3	10	4
PHB489	Clinical Radiotherapy 3	8	4
PHB585	Computer Assisted Treatment Planning 1	8	3

**Year 3, Semester 1****COMMON SUBJECTS**

PHB471	Radiation Physics 2	4	2
PHB575	Medical Radiation Computing 2	8	3

**MEDICAL IMAGING TECHNOLOGY MAJOR**

LSB421	Imaging Pathology	4	2
PHB572	Image Recording & Evaluation	4	2
PHB574	Quality Assurance in Medical Imaging	6	3
PHB576	Advanced Radiographic Technique 1	12	6
PHB578	Image Interpretation 1	4	2
PHB579	Clinical Radiography 4	8	4

**RADIOTHERAPY TECHNOLOGY MAJOR**

PHB583	Complementary & Evolving Techniques	6	3
PHB584	Principles of Treatment 2	4	2
PHB587	Orthovoltage & Superficial Therapy	10	4
PHB589	Clinical Radiotherapy 4	12	6

## Year 3, Semester 2

### COMMON SUBJECTS

PHB671	Radiation Biology	4	2
PHB672	Project	8	3
SSB918	Counselling for Health Professionals	4	2

### MEDICAL IMAGING TECHNOLOGY MAJOR

PHB676	Advanced Radiographic Technique 2	8	3
PHB679	Clinical Radiography 5	14	6
	EITHER		
PHB680	Nuclear Medicine Imaging 2	10	5
	OR		
PHB681	Computed Tomography Imaging	10	5

### RADIOTHERAPY TECHNOLOGY MAJOR

PHB683	Oncological Imaging	6	3
PHB685	Computer Assisted Treatment Planning 2	8	4
PHB687	Specialised Radiotherapy Technique	10	4
PHB689	Clinical Radiotherapy 5	8	4

## ■ Associate Diploma in Applied Science (Biology), Associate Diploma in Applied Science (Chemistry) (SC10)

**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 Coordinators:

Biology Major – Dr Chris King

Chemistry Major – Dr Graham Smith

### Full-Time Course Structure (Semester 1 common to both Majors)

Credit Points	Contact Hrs/Wk
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### Year 1, Semester 1

CHA111	Laboratory Techniques	8	3
CHA145	Introductory Chemistry	8	3
LSX110	Introductory Biology	8	3
LSX111	Microscopy Techniques	8	3
MAA251	Statistics & Data Processing	8	3
PHA154	Introductory Physics	8	3

### BIOLOGY MAJOR

#### Year 1, Semester 2

CHA218	Analytical Chemistry 1	8	3
CHA240	Instrumental Techniques	8	3
LSX210	Biology B	8	3
LSX211	Cell Structure & Function	8	3
LSX212	Biological Data Handling	8	3
LSX213	Introductory Biochemistry	8	3

#### Year 2, Semester 1

CHA442	Introduction to Occupational Safety	4	2
LSX310	Introduction to Bioculture	8	3
LSX311	Computer Applications in Biology	8	3

LSX312	Animal & Plant Techniques	12	4
	Electives* - two of:		
LSX313	Taxonomy	8	3
LSX314	Aquaculture Techniques	8	3
LSX315	Plant Physiology	8	3
LSX316	Hydrobiological Techniques	8	3
	OR		
	Other approved electives		

### Year 2, Semester 2

LSX223	Microbiology 2	8	3
LSX410	Environmental Biology	8	3
LSX411	Population Biology	8	3
LSX412	Field Techniques	8	3
LSX413	Applications in Electron Microscopy	8	3
	Elective* - one of:		
CSA259	Introduction to Computing	8	2
LSX414	Animal Physiology	8	3
LSX415	Plant Cell & Tissue Culture	8	3
	OR		
	Another approved elective		

## CHEMISTRY MAJOR

### Year 1, Semester 2

CHA218	Analytical Chemistry 1	8	3
CHA219	Qualitative Analysis	6	3
CHA230	Chemistry of Inorganic Materials	4	2
CHA240	Instrumental Techniques	8	3
CHA250	Organic Chemistry 1	8	3
CHA270	Physical Chemistry 1	8	3
CSA259	Introduction to Computing	8	2

### Year 2, Semester 1

CHA318	Instrumental Analytical Chemistry	8	4
CHA319	Analytical Chemistry 2	6	3
CHA320	Chemical Process Principles 1	8	3
CHA350	Organic Chemistry 2	8	3
CHA370	Physical Chemistry 2	6	2
CHA442	Introduction to Occupational Safety	4	2
	Elective* - one of:		
CHA580	Food Chemistry 1	8	3
	OR		
ESA310	Geology	8	3
	OR		
LSX123	Microbiology 1	8	3
	OR		
	Any other approved Elective		

### Year 2, Semester 2

CHA368	Industrial Chemistry	8	3
CHA410	Computers in Chemistry	8	3
CHA550	Organic Chemistry 3	8	3
CHA610	Industrial Analysis	8	3
CHA670	Physical Chemistry 3	8	3
	Elective*- one of:		
CHA680	Food Chemistry 2	8	3
	OR		
ESB220	Principles of Mineralogy	8	3
	OR		
LSX223	Microbiology 2	8	3
	OR		

\* Students should discuss their choice of electives with the Course Coordinator.



CHA520	Chemical Process Principles 2 OR Any other approved Elective	8	3
<b>Part-Time Course Structure (Year 1 common to both Majors)</b>		<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
<b>Year 1, Semester 1</b>			
CHA145	Introductory Chemistry	8	3
LSX110	Introductory Biology	8	3
PHA154	Introductory Physics	8	3
<b>Year 1, Semester 2</b>			
CHA111	Laboratory Techniques	8	3
LSX111	Microscopy Techniques	8	3
MAA251	Statistics & Data Processing	8	3
<b>BIOLOGY MAJOR</b>			
<b>Year 2, Semester 1</b>			
CHA218	Analytical Chemistry 1	8	3
LSX211	Cell Structure & Function	8	3
LSX212	Biological Data Handling	8	3
<b>Year 2, Semester 2</b>			
CHA240	Instrumental Techniques	8	3
LSX210	Biology B	8	3
LSX213	Introductory Biochemistry	8	3
<b>Year 3, Semester 1</b>			
LSX311	Computer Applications in Biology	8	3
LSX413	Applications in Electron Microscopy*	8	3
<b>Year 3, Semester 2</b>			
LSX223	Microbiology 2	8	3
LSX312	Animal and Plant Techniques+	12	4
LSX410	Environmental Biology+	8	3
<b>Year 4, Semester 1</b>			
CHA442	Introduction to Occupational Safety#	4	2
LSX310	Introduction to Bioculture Electives** - two of:	8	3
LSX010	External Project 1	8	3
LSX011	External Project 2	8	3
LSX313	Taxonomy	8	3
LSX314	Aquaculture Techniques	8	3
LSX315	Plant Physiology	8	3
LSX316	Hydrobiological Techniques OR Other approved Electives	8	3
<b>Year 4, Semester 2</b>			
LSX010	External Projects 1	8	3
LSX011	External Projects 2	8	3
LSX411	Population Biology+	8	3
LSX412	Field Techniques+	8	3

\* 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.

\*\* Students should discuss their choice of electives with the Course Coordinator.

	Elective* - one of:		
CSA259	Introduction to Computing	8	2
LSX414	Animal Physiology	8	3
LSX415	Plant Cell & Tissue Culture	8	3
	OR		
	Another approved Elective		

## CHEMISTRY MAJOR

### Year 2, Semester 1

CHA218	Analytical Chemistry 1	8	3
CHA230	Chemistry of Inorganic Materials	4	2
CHA250	Organic Chemistry 1	8	3
CHA270	Physical Chemistry 1	8	3

### Year 2, Semester 2

CHA219	Qualitative Analysis	6	3
CHA240	Instrumental Techniques	8	3
CHA350	Organic Chemistry 2	8	3

### Year 3, Semester 1

CHA318	Instrumental Analytical Chemistry	8	4
CHA319	Analytical Chemistry 2	6	3
CHA370	Physical Chemistry 2	6	2

### Year 3, Semester 2

CHA550	Organic Chemistry 3	8	3
CHA610	Industrial Analysis	8	3
CHA670	Physical Chemistry 3	8	3
CSA259	Introduction to Computing	8	2

### Year 4, Semester 1

CHA320	Chemical Process Principles 1	8	3
CHA442	Introduction to Occupational Safety+	4	2
	Elective* - one of:		
CHA580	Food Chemistry 1		
	OR	8	3
ESA310	Geology		
	OR	8	3
LSX123	Microbiology 1	8	3
	OR		
	Any other approved Elective		

### Year 4, Semester 2

CHA410	Computers in Chemistry	8	3
CHA368	Industrial Chemistry	8	3
	Elective+ - one of:		
CHA680	Food Chemistry 2	8	3
	OR		
ESB220	Principles of Mineralogy	8	3
	OR		
LSX223	Microbiology 2	8	3
	OR		
CHA520	Chemical Process Principles 2	8	3
	OR		
	Any other approved Elective		

\* Students should discuss their choice of electives with the Course Coordinator.

+ 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, nominates an honorary supervisor to collaborate with a departmental tutor. Under such an arrangement students are 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 participate in excursions and field work where these form part of the curriculum. Occasionally field work may be scheduled at weekends or during University 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 Techniques with Electives in Laboratory Techniques and Anaesthetic Techniques (LS15)

**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:** Mrs Anne Pope

### Professional Recognition

#### LABORATORY TECHNIQUES ELECTIVES

This program is recognised by both the Commonwealth and State Governments as a suitable employment qualification. Graduates from this program are recognised by the Australian Institute of Medical Laboratory Scientists and are eligible to become intermediate members of this professional body.

#### ANAESTHETIC TECHNIQUES ELECTIVES

This program is endorsed by the Faculty of Anaesthetists.

### Special Course Requirements

Students may undertake the course on a full-time or part-time basis. Part-time students are required to attend lectures during normal working hours.

Students entering the course may undertake to specialise in either: Laboratory Techniques (Electives in Group A), or Anaesthetic Techniques (Electives in Group B). To be awarded the Associate Diploma in Clinical Techniques, a student must complete all the subjects in either the prescribed program.

Students undertaking the Anaesthetic Techniques Electives may be exempted from whole or part of a subject on providing evidence of training and experience acceptable to the Head of School.

<b>Full-Time Course Structure</b>	<b>Credit</b>	<b>Contact</b>
<b>The first year is common to both Programs</b>	<b>Points</b>	<b>Hrs/Wk</b>

**Year 1, Semester 1**

COX104	Communication Techniques	4	2
LSX121	Biological Chemistry 1	8	4
LSX122	Laboratory Instrumentation 1	8	4
LSX123	Microbiology 1	8	3
LSX124	Perspectives in Medicine	4	1
LSX125	Anatomy & Physiology 1	8	3
PHA154	Introductory Physics	8	3

**Year 1, Semester 2**

LSX221	Biological Chemistry 2	8	4
LSX222	Laboratory Instrumentation 2	8	4
LSX223	Microbiology 2	8	3
LSX224	Pathology	8	2
LSX225	Anatomy & Physiology 2	8	3
PHA213	Medical Instrumentation 2	8	4

In Year 2 students should choose either the Laboratory Techniques Electives (Group A) or the Anaesthetic Techniques Electives (Group B).

**LABORATORY TECHNIQUES PROGRAM**

**Year 2, Semester 1**

MAA251	Statistics & Data Processing	8	2
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**Group A Electives**

Five of the following:

LSX320	Clinical Biochemical Techniques 3	8	4
LSX321	Clinical Microbiological Techniques 3	8	4
LSX322	Haematological Techniques 3	8	4
LSX323	Histological Techniques 3	8	4
LSX324	Immunological Techniques 3	8	4
LSX325	Cytological Techniques 3	8	4

**Year 2, Semester 2**

CSA259	Introduction to Computing	8	2
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**Group A Electives**

Five of the following:

LSX420	Clinical Biochemical Techniques 4	8	4
LSX421	Clinical Microbiological Techniques 4	8	4
LSX422	Haematological Techniques 4	8	4
LSX423	Histological Techniques 4	8	4
LSX424	Transfusion Techniques 4	8	4
LSX425	Cytological Techniques 4	8	4

**ANAESTHETIC TECHNIQUES PROGRAM**

**Group B Electives**

**Year 2, Semester 1**

LSX331	Foundations of Anaesthetic Techniques	12	5
LSX332	Physiology and Pharmacology	12	5
LSX333	Electronics and Computing	12	5
LSX334	Operating Room Equipment	12	5

**Year 2, Semester 2**

LSX431	Cardiac Care and Resuscitation	12	5
LSX432	Care of Respiratory Airways & Intensive Care	12	5
LSX433	Anaesthesia for Specialised Surgery	12	5
LSX434	Professional Practice	12	5

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

LSX121	Biological Chemistry 1	8	4
LSX122	Laboratory Instrumentation 1	8	4
PHA154	Introductory Physics	8	3

**Year 1, Semester 2**

LSX221	Biological Chemistry 2	8	4
LSX222	Laboratory Instrumentation 2	8	4
PHA213	Medical Instrumentation 2	8	4

**Year 2, Semester 1**

COX104	Communication Techniques	4	2
LSX123	Microbiology 1	8	3
LSX124	Perspectives in Medicine	4	1
LSX125	Anatomy & Physiology 1	8	3

**Year 2, Semester 2**

LSX223	Microbiology 2	8	3
LSX224	Pathology	8	2
LSX225	Anatomy & Physiology 2	8	3
MAA251*	Statistics & Data Processing	8	2

In Year 3, Semester 1 students should choose either the Laboratory Techniques Electives or the Anaesthetic Techniques Electives.

**LABORATORY TECHNIQUES PROGRAM**

Students enrolled in the part-time program are required to pass Introduction to Computing together with five Techniques 3 subjects and five Techniques 4 subjects over the four semesters.

**Year 3, Semester 1**

LSX320	Clinical Biochemical Techniques 3	8	4
LSX321	Clinical Microbiological Techniques 3	8	4
LSX322	Haematological Techniques 3	8	4

**Year 3, Semester 2**

LSX420	Clinical Biochemical Techniques 4	8	4
LSX421	Clinical Microbiological Techniques 4	8	4
LSX422	Haematological Techniques 4	8	4
CSA259	Introduction to Computing	8	2

**Year 4, Semester 1**

LSX323	Histological Techniques 3	8	4
LSX324	Immunological Techniques 3	8	4
LSX325	Cytological Techniques 3	8	4

**Year 4 Semester 2**

LSX423	Histological Techniques 4	8	4
LSX424	Transfusion Techniques 4	8	4
LSX425	Cytological Techniques 4	8	4

**ANAESTHETIC TECHNIQUES PROGRAM**

Students wishing to study the second year of the full-time course in a part-time program should consult the course coordinator.

\* This subject for Laboratory Techniques Program only.

## ■ 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):

- (i) 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.
- (ii) 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.
- (iii) 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 (ii) 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.

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# 4

## Subject Synopses



# SUBJECT SYNOPSIS

This section provides synopses of the subjects offered in the 'Academic Programs' section of this Handbook. Additional subjects to those listed may be available as a specialised electives. For the Faculty of Business these are listed separately commencing on page 721. Details of other subjects can be obtained from the appropriate faculty or school.

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 faculty or school administering the subject. The third character indicates the level of the course in which the subject is normally taught.

### Subject Coding

AA	Academy of the Arts	LW	Law
AL	Accounting Legal Studies	LX	Cross-Institution
AR	Architecture, Interior and Industrial Design	MA	Mathematics
AT	Arts	MD	Maths, Science and Technology Education
AY	Accountancy	ME	Mechanical and Manufacturing Engineering
BN	Built Environment and Engineering	MK	Marketing, Advertising and Public Relations
BS	Business	MJ	Media and Journalism
CE	Civil Engineering	NS	Nursing
CH	Chemistry	OP	Optometry
CN	Construction Management	PH	Physics
CO	Communication and Organisational Studies	PL	Planning and Landscape Architecture
CP	Cultural and Policy Studies	PU	Public Health
CS	Computing Science	SB	Social, Business and Environmental Education
CU	Curriculum and Professional Studies	SC	Science
EA	Early Childhood	SS	Social Science
ED	Education	SV	Surveying
EE	Electrical and Electronic Engineering		
EP	Economic and Public Policy		
ES	Geology		
FN	Finance		
HL	Health		
HM	Human Movement Studies		
HR	Human Resource Management and Labour Relations		
HU	Humanities		
IF	Interfaculty Courses		
IN	Information Technology		
IS	Information Systems		
JS	Justice Studies		
LA	Language and Literacy Education		
LE	Learning and Development		
LP	Legal Practice		
LS	Life Science		

### Level Indicators

X	Certificate, Associate Diploma, Diploma
B	Degree
P	Graduate Diploma
N	Masters Degree
R	Doctoral
D	Diploma*
A	Associate Diploma (all schools except Engineering)*
T	Associate Diploma in Engineering*
S	Special Subjects

\* Codes to be phased out as existing QUT courses are reaccredited.

### **Prerequisite and co-requisite subjects**

For definitions of the terms prerequisite and co-requisite subject(s) refer to Rule 1.8.2 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.



### ■ AAB001 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:** 48

### ■ AAB020 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:** 48

### ■ AAB021 ADVANCED RESEARCH METHODS

Familiarisation with a range of (mostly) quantitative methodological tools. Methodologies selected, to a certain extent, to meet the requirements of the students in question.

**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ AAB023 ADVANCED READINGS IN AUSTRALIAN ART

Examination of contemporary matters to do with Australian art practice and the Australian art context. Articulation of the Australian situation with international trends.

**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ AAB051 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:** 12 **Contact Hours:** 3 per week

### ■ AAB052 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:** 12 **Contact Hours:** 3 per week

### ■ AAB100 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:** 8 **Contact Hours:** 3 per week

### ■ AAB101 DANCE KINESIOLOGY & ALIGNMENT

The anatomical structure and alignment techniques, their function and application to increase dance technique facility and lessen dance injuries.

**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ AAB102 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:** 24 **Contact Hours:** 7.5 per week

### ■ AAB103 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:** 12 **Contact Hours:** 6 per week

### ■ AAB104 MUSIC

Elements of music: concepts of beat, accent, rhythm and phrasing; study of nineteenth and twentieth century musical styles; notation, score reading, vocal and improvisation studies.

**Credit Points:** 8 **Contact Hours:** 3 per week

### ■ AAB105 DANCE ANALYSIS & HISTORY 1

Introduction to the analysis of dance through a concentration on the dance as text; a study of various historical contexts of dance as art. Focus on ballet.

**Credit Points:** 8 **Contact Hours:** 3 per week

### ■ AAB106 DANCE ANALYSIS & HISTORY 2

Introduction to the analysis of dance through a concentration on the dance as text; a study of various historical contexts of dance as art. Focus on modern/contemporary dance.

**Prerequisite:** AAB105

**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ AAB107 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:** AAB102

**Credit Points:** 24 **Contact Hours:** 7.5 per week

### ■ AAB108 CLASSICAL TECHNIQUE 2

Consolidation of technique; study of variety of selected approaches to classical ballet and development of appropriate range of technical skills within the four-tier practical level system.

**Prerequisite:** AAB103

**Credit Points:** 12 **Contact Hours:** 4.5 per week

### ■ AAB109 PRACTICUM

Consolidation of the student's knowledge and skills in direct artistic experience in real contexts.

**Credit Points:** 12

### ■ AAB110 COMPOSITION & PRODUCTION TECHNIQUES

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. Study and practice in elements of theatre production; lighting, sound and costume.

**Prerequisite:** AAB100

**Credit Points:** 12 **Contact Hours:** 5 per week

### ■ AAB111 DANCE RESEARCH

Practical training in scholarly methods and professional skills.

**Credit Points:** 8 **Contact Hours:** 2 per week

### ■ AAB112 HISTORY OF AUSTRALIAN THEATRE DANCE

A study of the development of dance as an art form in Australia in the twentieth century.

**Credit Points:** 8 **Contact Hours:** 3 per week

**■ AAB113 WRITINGS ON DANCE**

Strategies for reading and writing exposition and argument with emphasis on clarity of expression and presentation of thought.

**Prerequisites:** AAB111 and AAB114

**Credit Points:** 12      **Contact Hours:** 2 per week

**■ AAB114 DANCE IN AUSTRALIAN SOCIETY**

The ritual, artistic and social functions of dance in contemporary Australian society.

**Prerequisite:** AAB051

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ AAB115 PROFESSIONAL DEVELOPMENT STUDIES**

Preparation for the dance industry; preparation of curriculum vitae and funding applications; auditions; contracts; press relations and management.

**Credit Points:** 8      **Contact Hours:** 2 per week

**■ AAB116 DANCE IN THE COMMUNITY**

Introductory studies of dance in the community; exploring the role of dance in the community; procedures for establishing a dance project; basic program planning and teaching approaches for community dance.

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ AAB117 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:** 16      **Contact Hours:** 3 per week

**■ AAB118 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.

**Credit Points:** 16

**■ AAB119 JAZZ & FOLK DANCE**

A study of jazz and folk dances – their historical and cultural contexts, incorporating practical experiences and analytical knowledge of dance fashions in a social context.

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ AAB151 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:** 12

**■ AAB152 CONTEMPORARY TECHNIQUE 2**

Continuation of AAB102. Basic combinations of movements; analysis of dance sequences.

**Prerequisite:** AAB102

**Credit Points:** 12

**■ AAB153 ADVANCED PERFORMANCE 1**

Attainment of outstanding practical skills combining use of aesthetic quality and artistry.

**Prerequisite:** Grade of 6 or 7 in AAB102 and AAB103.

**Credit Points:** 20

**■ AAB154 ADVANCED PERFORMANCE 2**

Continuation of AAB153.

**Prerequisite:** AAB113

**Credit Points:** 36

**■ AAB155 ADVANCED ANALYSIS 1: BALLET**

The skills involved in the aesthetic appreciation and analysis of the masterworks of ballet.

**Co-requisites:** AAB111 and AAB114

**Prerequisites:** Grade of 5 or above in AAB105 and AAB112.

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ AAB156 ADVANCED ANALYSIS 2: MODERN DANCE**

The aesthetic appreciation and analysis of the masterworks of modern dance.

**Co-requisite:** AAB113

**Prerequisite:** Grade of 5 or above in AAB105 and AAB112.

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ AAB157 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.

**Prerequisite:** Grade of 5 or above in AAB105, AAB155 or AAB156.

**Credit Points:** 12      **Contact Hours:** 1 per week

**■ AAB158 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-requisite:** AAB107

**Credit Points:** 8      **Contact Hours:** 5 per week

**■ AAB159 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-requisites:** AAB155 and AAB158

**Credit Points:** 12      **Contact Hours:** 5 per week

**■ AAB160 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-requisites:** AAB156 and AAB159

**Credit Points:** 12      **Contact Hours:** 5 per week

**■ AAB161 DANCE IN THE COMMUNITY 1**

Indepth studies in teaching dance: program planning and teaching approaches for specific dance groups.

**Prerequisite:** AAB116

**Credit Points:** 16      **Contact Hours:** 3 per week

**■ AAB162 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:** AAB161

**Credit Points:** 16      **Contact Hours:** 3 per week

**■ AAB163 DANCE IN THE COMMUNITY 3**

Students are required to individually initiate, devise, develop and produce a dance project within the community with the emphasis on the creativity and production of the project.

**Prerequisite:** AAB162

**Credit Points:** 16      **Contact Hours:** 3 per week

**■ AAB164 DANCE ELECTIVE**

Students are required to select topics for further study in consultation with the Course Coordinator.

**Credit Points:** 8

**■ AAB202 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:** 8 **Contact Hours:** 4 per week

**■ AAB203 ACTING 2**

Focus on Shakespeare; work on verse, small scenes and soliloquies.

**Prerequisite:** AAB202

**Credit Points:** 12 **Contact Hours:** 4 per week

**■ AAB204 VOICE & MOVEMENT 1**

Body awareness; sense of space; breathing; expression and articulation; text and context; research.

**Credit Points:** 8 **Contact Hours:** 4 per week

**■ AAB205 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:** AAB204

**Credit Points:** 8 **Contact Hours:** 3 per week

**■ AAB206 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:** 8 **Contact Hours:** 4 per week

**■ AAB207 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 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:** 8 **Contact Hours:** 4 per week

**■ AAB208 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:** 12 **Contact Hours:** 4 per week

**■ AAB209 INTRODUCTORY THEATRE STUDIES**

An introduction to shaping the theatrical event as director, designer, playwright.

**Credit Points:** 8 **Contact Hours:** 4 per week

**■ AAB211 DEVELOPMENT OF THEATRE 1**

Origins of theatre: Greek drama/theatre; medieval theatres in Europe; theatre in Asia; 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:** 8 **Contact Hours:** 3 per week

**■ AAB212 DEVELOPMENT OF THEATRE 2**

Realism; naturalism; symbolism/expressionism; epic theatre; absurd; current theatre; south-east Asian theatre; Australian theatre to World War 2; Australian theatre; community theatre.

**Prerequisite:** AAB211

**Credit Points:** 8 **Contact Hours:** 3 per week

**■ AAB213 DIRECTING**

Functions of the director from casting to rehearsal to performance; organisation 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; seminars on contemporary directors.

**Prerequisite:** AAB209

**Credit Points:** 8 **Contact Hours:** 3 per week

**■ AAB214 DRAMA PROCESS**

Workshops involving individual, face-to-face and group roleplay; 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 remaking.

**Prerequisite:** AAB208

**Credit Points:** 8 **Contact Hours:** 3 per week

**■ AAB215 DESIGN**

Establishing the scene; staging alternatives; lighting and scenery; costume design; scale models and drawings.

**Prerequisite:** AAB208

**Credit Points:** 8 **Contact Hours:** 3 per week

**■ AAB216 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:** AAB209

**Credit Points:** 8 **Contact Hours:** 3 per week

**■ AAB217 ARTS RESEARCH & EVALUATION 1**

Accessing and collation of pertinent resources, critical observation techniques; case study methods.

**Credit Points:** 12 **Contact Hours:** 3 per week

**■ AAB218 ARTS RESEARCH & EVALUATION 2**

Study of a major play in production (or other project involving performance) from one particular frame of reference.

**Prerequisite:** AAB217

**Credit Points:** 8 **Contact Hours:** 2 per week

**■ AAB219 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 com-

munity need; preparing a curriculum vitae; job applications, meeting procedures.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ AAB220 THEATRE STUDIES OPTION

Specialised work in one of the theatre studies areas: directing, design, playwrighting or theatre in education, or a related area by negotiation.

**Credit Points:** 8      **Contact Hours:** 2 per week

#### ■ AAB225 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 involves one of the three main communities identified: artistic, public, institutional.

**Credit Points:** 12

#### ■ AAB226 PRACTICUM 2

See AAB225.

**Prerequisite:** AAB225

**Credit Points:** 12

#### ■ AAB227 PRACTICUM 3

See AAB225.

**Prerequisite:** AAB226

**Credit Points:** 8

#### ■ AAB241 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:** AAB205

**Credit Points:** 8      **Contact Hours:** 2 per week

#### ■ AAB242 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:** AAB241

**Credit Points:** 8      **Contact Hours:** 2 per week

#### ■ AAB243 VOICE 3

Development of advanced vocal techniques; development of audition materials.

**Prerequisite:** AAB242

**Credit Points:** 8      **Contact Hours:** 2 per week

#### ■ AAB244 VOICE 4

Development of advanced vocal techniques; development of audition materials suitable for a variety of venues.

**Prerequisite:** AAB243

**Credit Points:** 8      **Contact Hours:** 2 per week

#### ■ AAB245 MOVEMENT

Physical theatre genres: Asian forms including Kabuki, Noh, Kathakali; European forms including Greek, Commedia, Restoration. Movement arts: stage combat, T'ai Chi, acrobatics and tumbling.

**Prerequisite:** AAB205

**Credit Points:** 8      **Contact Hours:** 4 per week

#### ■ AAB246 MUSIC & 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. Aural comprehension and notation of rhythm and pitch; vocal technique; principles of style.

**Credit Points:** 12

**Contact Hours:** 3 per week

#### ■ AAB247 ACTING 3

Study of differing philosophies of theatre and their relation to performance; exercises, research and practical work on selected texts. Introduction to acting for the camera.

**Prerequisite:** AAB203

**Credit Points:** 12      **Contact Hours:** 4 per week

#### ■ AAB248 ACTING 4

Research, rehearsal and performance.

**Prerequisite:** AAB247

**Credit Points:** 16      **Contact Hours:** 4 per week

#### ■ AAB249 DANCE STYLES

A range of dance styles and their corresponding conceptual and historical bases; performance skills; performance abilities.

**Prerequisite:** AAB246

**Credit Points:** 8      **Contact Hours:** 2 per week

#### ■ AAB250 THEATRE PRODUCTION

Specific major tasks of acting or management duties for two or more productions by the drama program, requiring a high level of personal responsibility.

**Credit Points:** 36

#### ■ AAB261 THE 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:** 12      **Contact Hours:** 3 per week

#### ■ AAB262 ARTS FINANCE

Planning and monitoring the use of money in the arts, including the preparation of funding submissions in non-profit situations.

**Credit Points:** 12      **Contact Hours:** 2 per week

#### ■ AAB263 ARTS MARKETING

General principles of marketing; the marketing plan; applications in performing arts situations; planning, targeting, costing and implementation up to point of sale contact in the front of house.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ AAB264 PERFORMING ARTS PROMOTIONS

Publicity, public relations and advertising in the arts context. Practical skills for low-budget operations.

**Credit Points:** 8      **Contact Hours:** 2 per week

#### ■ AAB265 ISSUES IN ARTS MANAGEMENT

Fundraising and sponsorship; law and the arts; issues and selected current issues, eg. multiculturalism, tourism.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ AAB266 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:** 8      **Contact Hours:** 2 per week

#### ■ AAB281 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:** 8      **Contact Hours:** 2 per week

### ■ AAB282 LIGHTING 1

Design theory; lighting control; communication in the production team.

**Prerequisite:** AAB207

**Credit Points:** 8      **Contact Hours:** 2 per week

### ■ AAB283 LIGHTING 2

Advanced theory; procedures and planning; current practice.

**Prerequisite:** AAB282

**Credit Points:** 8      **Contact Hours:** 3 per week

### ■ AAB284 STAGE MANAGEMENT 1

Coordination; pre-production planning; rehearsals; the bump in; technical rehearsal.

**Prerequisite:** AAB207

**Credit Points:** 12      **Contact Hours:** 2 per week

### ■ AAB285 STAGE MANAGEMENT 2

Wardrobe management and stage props management. Elementary design, working drawings/patterns, construction techniques and general maintenance.

**Credit Points:** 12      **Contact Hours:** 4 per week

### ■ AAB286 STAGE MANAGEMENT 3

Advanced practical stage management exercises including production management and tour management and planning.

**Credit Points:** 12      **Contact Hours:** 2 per week

### ■ AAB287 THE STAGE SET

Interpreting working drawings; costing and materials selection; safety procedures; construction.

**Prerequisite:** AAB207

**Credit Points:** 8      **Contact Hours:** 3 per week

### ■ AAB288 SOUND 1

Design theory; sound control; communication in the production team.

**Prerequisite:** AAB207

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ AAB302 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:** 8      **Contact Hours:** 3 per week

### ■ AAB303 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.

**Credit Points:** 8      **Contact Hours:** 3 per week

### ■ AAB304 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 understanding.

**Credit Points:** 8      **Contact Hours:** 3 per week

### ■ AAB305 ADVANCED DRAMA PROCESS

The nature of experiential drama; pace and time; shape and externals; reflection and refraction; evaluation; devising process drama.

**Credit Points:** 8      **Contact Hours:** 3 per week

### ■ AAB321 ADVANCED DESIGN 1

Research project on the origins and development of design and theatre; practical design involvement in a drama production.

**Prerequisite:** AAB215

**Credit Points:** 12

### ■ AAB322 ADVANCED DESIGN 2

Analysis of the philosophy and practice of a specific designer; assignment to a major production as assistant designer.

**Prerequisite:** AAB321

**Credit Points:** 12

### ■ AAB323 ADVANCED DESIGN 3

Secondment as designer or associate designer to a professional, amateur or community theatre project (approximately 7 weeks).

**Prerequisite:** AAB322

**Credit Points:** 24

### ■ AAB324 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:** AAB213

**Credit Points:** 12

### ■ AAB325 ADVANCED DIRECTING 2

Analysis of the philosophy and practice of a major director; assignment to a major production as assistant director.

**Prerequisite:** AAB324

**Credit Points:** 12

### ■ AAB326 ADVANCED DIRECTING 3

Secondment as director or associate director to a professional, amateur or community theatre project (approximately 7 weeks).

**Prerequisite:** AAB324

**Credit Points:** 24

### ■ AAB327 ADVANCED PLAYWRIGHTING 1

Secondment to a major production within or outside the University as dramaturg (researcher and interpretative consultant). Scriptwriting project.

**Prerequisite:** AAB216

**Credit Points:** 12

### ■ AAB328 ADVANCED PLAYWRIGHTING 2

Study of a selected scriptwriting style. A major playwriting project in any dramatic medium.

**Prerequisite:** AAB327

**Credit Points:** 12

### ■ AAB329 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:** 24

### ■ AAB410 ART CURRICULUM DESIGN & DEVELOPMENT

An overview of major art curriculum approaches as found in the literature and a variety of art syllabus support documents. Analysis of art curriculum planning models; design and development of art programs for schools; production of art resources to support curriculum.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ AAB411 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 lesson sequence based on dramatic action; preparation of curriculum materials. Compulsory study school for external students.

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ AAB421 FOUNDATION ART STUDIES**

Participation in the process of solving broad ranging visual problems through developing ideas, recording information and forming solutions to visual problems. The subject seeks to develop genuine enquiry and the attainment of appropriate levels of competence of techniques, materials and resources to bring ideas to fruition.

**Credit Points:** 12      **Contact Hours:** 4 per week

**■ AAB422 PAINTING/DRAWING/FIBRE STUDIES**

Aesthetic and media competencies in painting/drawing/fibre studies.

**Credit Points:** 12      **Contact Hours:** 6 per week

**■ AAB423 COMPUTER GRAPHICS/INTERMEDIA STUDIES**

Aesthetic and media competencies in computer graphics and intermedia studies.

**Credit Points:** 8      **Contact Hours:** 4 per week

**■ AAB424 CERAMIC/SCULPTURE STUDIES**

Aesthetic and media competencies in ceramic and sculpture studies; an understanding of ceramic and sculpture art forms within historical and cultural contexts.

**Credit Points:** 8      **Contact Hours:** 4 per week

**■ AAB425 PHOTOGRAPHY/PRINTMAKING STUDIES**

Aesthetic and media competencies in photography and printmaking studies.

**Credit Points:** 8      **Contact Hours:** 4 per week

**■ AAB426 ADVANCED DISCIPLINE STUDY 1 – 2D STUDIES**

Development of individual practice in the visual arts. Undertaking of projects within and outside the studio with a view to understanding the relationships between the historical, cultural, aesthetic and productive aspects of 2 dimensional visual art forms. Development of a personal philosophical basis for art practice; professional attitudes and innovative thinking; research into the knowledge and resources available to the 2 dimensional artist; development of the ability to evaluate aesthetic qualities in student's own work.

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ AAB427 ADVANCED DISCIPLINE STUDY 2 – 2D STUDIES**

Development of individual practice in the visual arts. Undertaking of projects within and outside the studio with a view to understanding the relationships between the historical, cultural, aesthetic and productive aspects of 2 dimensional visual art forms. Development of a personal philosophical basis for art practice; professional attitudes and innovative thinking; research into the knowledge and resources available to the 2 dimensional artist; development of the ability to evaluate aesthetic qualities in student's own work.

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ AAB428 ADVANCED DISCIPLINE STUDY 1 – 3D STUDIES**

Development of individual practice in the visual arts. Undertaking of projects within and outside the studio with a view to understanding the relationships between the historical, cultural, aesthetic and productive aspects of 3 dimensional visual art forms. Development of a personal philosophical basis for art practice; professional attitudes and innovative thinking; research into the knowledge and resources available to the 3 dimensional artist; development of the ability to evaluate aesthetic qualities in student's own work.

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ AAB429 ADVANCED DISCIPLINE STUDY 2 – 3D STUDIES**

Development of individual practice in the visual arts. Undertaking of projects within and outside the studio with a view to understanding the relationships between the historical, cultural, aesthetic and productive aspects of 3 dimensional visual art forms. Development of a personal philosophical basis for art practice; professional attitudes and innovative thinking; research into the knowledge and resources available to the 3 dimensional artist; development of the ability to evaluate aesthetic qualities in student's own work.

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ AAB430 ADVANCED DISCIPLINE STUDY 1 – IMAGING IN TECHNOLOGY**

Development of individual practice in the visual arts. Undertaking of projects within and outside the studio with a view to understanding the relationships between the historical, cultural, aesthetic and productive aspects of 3 dimensional visual art forms. Development of a personal philosophical basis for art practice; professional attitudes and innovative thinking; research into the knowledge and resources available to the 3 dimensional artist; development of the ability to evaluate aesthetic qualities in student's own work.

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ AAB431 ADVANCED DISCIPLINE STUDY 2 – IMAGING IN TECHNOLOGY**

Development of individual practice in the visual arts. Undertaking of projects within and outside the studio with a view to understanding the relationships between the historical, cultural, aesthetic and productive aspects of 3 dimensional visual art forms. Development of a personal philosophical basis for art practice; professional attitudes and innovative thinking; research into the knowledge and resources available to the 3 dimensional artist; development of the ability to evaluate aesthetic qualities in student's own work.

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ AAB432 ADVANCED DISCIPLINE STUDY 1 – INTERMEDIA STUDIES**

Development of individual practice in the visual arts. Undertaking of projects within and outside the studio with a view to understanding the relationships between the historical, cultural, aesthetic and productive aspects of 3 dimensional visual art forms. Development of a personal philosophical basis for art practice; professional attitudes and innovative thinking; research into the knowledge and resources available to the 3 dimensional artist; development of the ability to evaluate aesthetic qualities in student's own work.

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ AAB434 ART CURRICULUM & TEACHING STUDIES 1**

Builds on CUB301 to give a greater understanding of the nature of art as an applied curriculum area. Provides insights into relevant Queensland syllabus and curriculum documents, develops competencies in planning and teaching and makes close links with teaching practice.

**Prerequisites:** CUB301 and at least 48 credit points in each relevant discipline area.

**Credit Points:** 8      **Contact Hours:** 3 per week

**■ AAB435 ART CURRICULUM & TEACHING STUDIES 2**

Studied in association with CUB302. Provides opportunities for consideration and practical application of broad curricular and teaching principles and systems policies within the more specific context of this cur-

riculum area. As with CUB302, establishes principles which are used to guide school experience during teaching practice and also as a beginning teacher.

**Prerequisite:** AAB434

**Co-requisites:** CUB302, EDB302

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ AAB436 ART CURRICULUM & TEACHING STUDIES 3

Last in the Curriculum and Teaching Studies series with a major focus on contemporary issues and emerging trends pertaining to curriculum development in this curriculum area. Includes study of advanced planning and teaching strategies and provides opportunities for application of planning and teaching skills during practice teaching.

**Prerequisites:** AAB434, AAB425, CUB302

**Credit Points:** 8      **Contact Hours:** 3 per week

#### ■ AAB437 DRAMA CURRICULUM & TEACHING STUDIES 1

Builds on CUB301 to give a greater understanding of the nature of drama as an applied curriculum area. Provides insights into relevant Queensland syllabus and curriculum documents, develops competencies in planning and teaching and makes close links with teaching practice.

**Prerequisites:** CUB301 and at least 48 credit points in each relevant discipline area.

**Credit Points:** 8      **Contact Hours:** 3 per week

#### ■ AAB438 DRAMA CURRICULUM & TEACHING STUDIES 2

Studied in association with CUB302. Provides opportunities for consideration and practical application of broad curricular and teaching principles and systems policies within the more specific context of this curriculum area. As with CUB302, establishes principles used to guide school experience during teaching practice and also as a beginning teacher.

**Prerequisite:** AAB437

**Co-requisites:** CUB302, EDB302

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ AAB439 DRAMA CURRICULUM & TEACHING STUDIES 3

Last in the Curriculum and Teaching Studies series with a major focus on contemporary issues and emerging trends pertaining to curriculum development in this curriculum area. Includes study of advanced planning and teaching strategies and provides opportunities for application of planning and teaching skills during practice teaching.

**Prerequisites:** MDB356, MDB357, CUB302

**Credit Points:** 8      **Contact Hours:** 3 per week

#### ■ AAB440 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

#### ■ AAB442 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.

**Credit Points:** 12

**Contact Hours:** 3 per week

#### ■ AAB443 PHOTOGRAPHY AS VISUAL ART

Exploration of the art potential of the camera and darkroom processing; the photograph as art; creation of art photography, manipulation of photographic images; the history and emergence of photography as an art form; the study of eminent photographers.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ AAB444 VISUAL ARTS OF ASIA

As a reflection of the maker's culture, the visual arts of Asia provides one means of understanding these diverse cultures. Historical backgrounds, philosophical beliefs and trade have influenced the symbolism, forms, techniques and uses of these various artefacts. Development of an understanding and awareness of non-western art forms.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ AAB445 CLAY MATERIALS

The development of ceramic knowledge, concepts and technical skills related to both practical and artistic considerations; an investigation of selected historical ceramic eras; understanding the relationship between ceramics and the maker's culture; development of personal imagery and design through a variety of construction, decoration and firing procedures.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ AAB446 PAINTING STUDIES

Exploratory work in space, form, colour and mass; foundations and implications of contemporary directions in painting; criticism and analysis.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ AAB447 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

#### ■ AAB449 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.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ AAB450 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.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ AAB451 FIBRE CONSTRUCTION

Practical studies of fibre and fabric construction with a focus on historical and contemporary media, utilisation of fibre/textile materials and processes to develop contemporary 3 dimensional objects.

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ AAB452 CONTEMPORARY SURFACE DESIGN FOR TEXTILES**

Investigation of the practical application of designs on fabric including indigo dyeing, shibori, batik, block printing, screen printing with particular emphasis on the interpretation of contemporary designs.

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ AAB453 COMPUTER GRAPHICS IN THE CURRICULUM**

Operational procedures; exploration of software; processing characteristics and applications; image generation; capture and recording; animation; presentation and authoring systems; computers and society.

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ AAB454 ADVANCED THREE-DIMENSIONAL STUDIES**

The role of drawing and the preparation of 3 dimensional design both as a point of reference, stimulus 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

**■ AAB500 CHIEF PRACTICAL STUDY 1**

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:** 16      **Contact Hours:** 2 per week

**■ AAB501 CHIEF PRACTICAL STUDY 2**

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:** AAB500

**Credit Points:** 16      **Contact Hours:** 2 per week

**■ AAB502 CHIEF PRACTICAL STUDY 3**

Consolidation and extension of studies from AAB501; performance seminar, participation in performance activities; open recitals.

**Prerequisite:** AAB501

**Credit Points:** 16      **Contact Hours:** 2 per week

**■ AAB503 ENSEMBLE STUDIES C1**

Group tuition on an orchestral instrument; basic performing technique. Directed ensemble activities including membership of instrumental or vocal ensemble, together with one other elective ensemble.

**Credit Points:** 12      **Contact Hours:** 6 per week

**■ AAB504 ENSEMBLE STUDIES C2**

Group tuition on an orchestral instrument; development of performing technique. Directed ensemble activities including membership of instrumental or vocal ensemble, together with one other elective ensemble.

**Credit Points:** 12      **Contact Hours:** 6 per week

**■ AAB505 ENSEMBLE STUDIES C3**

Group tuition on an orchestral instrument; further development of performing technique. Directed ensemble activities including membership of instrumental or vocal ensemble, together with one other elective ensemble.

**Credit Points:** 12      **Contact Hours:** 6 per week

**■ AAB506 AURAL MUSICIANSHIP 1**

Aural perception skills; development of vocal sight reading and performance skills; training the musical memory; solfege; dictation; aural analysis.

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ AAB507 AURAL MUSICIANSHIP 2**

Continuation from work begun in AAB506; performance of music in parts; harmonic analysis; transcription of melodies by ear.

**Prerequisite:** AAB506

**Credit Points:** 8      **Contact Hours:** 2 per week

**■ AAB508 KEYBOARD MUSICIANSHIP**

Keyboard techniques; sight reading in a variety of keyboard styles; basic improvisation skills, including harmonisation of melodies, transposition.

**Credit Points:** 8      **Contact Hours:** 2 per week

**■ AAB509 TWENTIETH-CENTURY MUSIC 1**

Overview of major twentieth-century popular music styles including blues, jazz and rock music. Writing techniques, including original composition and performance.

**Credit Points:** 8      **Contact Hours:** 4 per week

**■ AAB510 TWENTIETH-CENTURY MUSIC 2**

Theatre and concert music to 1950. Literature and history; an examination of the major composers and selected major compositions from the first half of this century. Writing techniques corresponding to the styles studied in the literature segments; individual and group-generated compositions.

**Prerequisite:** AAB510

**Credit Points:** 8      **Contact Hours:** 5 per week

**■ AAB511 TWENTIETH-CENTURY MUSIC 3**

Theatre and concert music from 1950 to the present day. Electronic and computer music, aleatoric and minimalist techniques; the return to tonality.

**Prerequisite:** AAB510

**Credit Points:** 8      **Contact Hours:** 4 per week

**■ AAB512 MUSIC STUDIES 1**

Development of special skills and knowledge in one of the following: choral arranging and conducting, instrumental arranging and conducting, introduction to non-western music.

**Credit Points:** 8      **Contact Hours:** 2-4 per week

**■ AAB513 MUSIC STUDIES 2**

Development of special skills and knowledge in one of the following: choral arranging and conducting, instrumental arranging and conducting, introduction to non-western music, music in the theatre 1600-1900.

**Credit Points:** 8      **Contact Hours:** 2-4 per week

**■ AAB514 MUSIC STUDIES 3**

Development of special skills and knowledge in one of the following: choral arranging and conducting, instrumental arranging and conducting, popular music composition, introduction to principles and practices of teaching.

**Credit Points:** 8      **Contact Hours:** 2-4 per week

**■ AAB515 MUSIC STUDIES 4**

Development of special skills and knowledge in one of the following: choral arranging and conducting, instrumental arranging and conducting, popular music composition 2, music in the theatre 1600-1900, introduction to music research, independent study, studio music teaching.

**Credit Points:** 8      **Contact Hours:** 2-4 per week



# **■ AAB516 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:** 12      **Contact Hours:** 2 per week

# **■ AAB517 SYSTEMS OF PART WRITING 2**

Chromatic harmony; nineteenth and twentieth century writing techniques.

**Prerequisite:** AAB516

**Credit Points:** 12      **Contact Hours:** 2 per week

# **■ AAB518 LITERATURE & ANALYSIS OF MUSIC 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:** 8      **Contact Hours:** 4 per week

# **■ AAB519 LITERATURE & ANALYSIS OF MUSIC 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:** AAB518

**Credit Points:** 8      **Contact Hours:** 4 per week

# **■ AAB520 LITERATURE & ANALYSIS OF MUSIC 3**

Romantic and impressionist music; development of research and analytical skills; forms studied include the Lied, symphony, orchestral music, instrumental and keyboard music, and music drama.

**Prerequisite:** AAB519

**Credit Points:** 8      **Contact Hours:** 4 per week

# **■ AAB551 POPULAR MUSIC COMPOSITION 1**

Introduction to computer music, synthesiser, MIDI sequencing, music publishing and recording studio techniques.

**Prerequisite:** Consent of the lecturer.

**Credit Points:** 8      **Contact Hours:** 3 per week

# **■ AAB552 POPULAR MUSIC COMPOSITION 2**

Principles and analysis of popular song structure, harmony and presentation. Aural analysis of popular repertoire and norms of the genre.

**Prerequisite:** AAB551

**Credit Points:** 8      **Contact Hours:** 3 per week

# **■ AAB553 POPULAR MUSIC COMPOSITION 3**

Composition for film, television and the media using MIDI systems and computer/video time-code formats, including semiotic analysis of music for film.

**Prerequisite:** AAB552

**Credit Points:** 16      **Contact Hours:** 3 per week

# **■ AAB554 POPULAR MUSIC COMPOSITION 4**

Continued use of MIDI systems in a personal composition project, focusing on multi-media presentational forms; time management and collaborative work; live performance project.

**Prerequisite:** AAB553

**Credit Points:** 12      **Contact Hours:** 3 per week

# **■ AAB555 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:** AAB506

**Credit Points:** 12      **Contact Hours:** 3 per week

# **■ AAB556 POPULAR MUSIC: SOCIOLOGY, ATTITUDES, APPLICATIONS**

Understanding popular culture; relationship between popular culture and art forms; roles of the media; critical study of popular music genres.

**Prerequisite:** AAB051

**Credit Points:** 8      **Contact Hours:** 2 per week

# **■ AAB557 ENSEMBLE STUDIES P1**

Group tuition on an orchestral instrument; basic performing technique. Directed ensemble activities including membership of pop ensemble, together with one other elective ensemble. Keyboard musicianship as appropriate to the popular music genre.

**Credit Points:** 16      **Contact Hours:** 7 per week

# **■ AAB558 ENSEMBLE STUDIES P2**

Group tuition on an orchestral instrument; development of performing technique. Directed ensemble activities including membership of pop ensemble, together with one other elective ensemble. Aural musicianship as appropriate to the popular music genre.

**Credit Points:** 16      **Contact Hours:** 7 per week

# **■ AAB701 THE MAKING OF MODERNISM**

The birth of modern art from French Impressionism to the eve of the World War 2; the major movements and their theoretical underpinnings.

**Credit Points:** 12      **Contact Hours:** 4 per week

# **■ AAB702 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:** 24      **Contact Hours:** 18 per week

# **■ AAB703 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:** AAB702

**Credit Points:** 36      **Contact Hours:** 18 per week

# **■ AAB704 ART SINCE 1945**

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:** AAB701

**Credit Points:** 12      **Contact Hours:** 3 per week

# **■ AAB705 PRACTICUM 1**

Four weeks work experience in visual arts related locations such as public and commercial galleries, conservation, State Library, Queensland Museum.

**Credit Points:** 12

**■ AAB706 PRACTICUM 2**

Shared responsibility by graduating students for all aspects of their graduation exhibition.

**Credit Points:** 12

**■ AAB707 ADVANCED MEDIA STUDIES 1**

Students are expected to research 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 indicate specific studies in the 2 dimensional or 3 dimensional areas or a combination of these.

**Prerequisite:** AAB703

**Credit Points:** 24 **Contact Hours:** 18 per week

**■ AAB708 ADVANCED MEDIA STUDIES 2**

Students prepare and present a plan of studies based on their own specific interest; rigorous questioning of concept and artefact is 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:** AAB707

**Credit Points:** 24 **Contact Hours:** 12 per week

**■ AAB709 ADVANCED MEDIA STUDIES 3**

Students are expected to work independently demonstrating sound habits of research and sustained studio practice; skills developed in AAB703 and AAB707 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:** AAB708

**Credit Points:** 24 **Contact Hours:** 18 per week

**■ AAB710 ADVANCED MEDIA STUDIES 4**

Independent work in preparation for an exhibition.

**Prerequisite:** AAB709

**Credit Points:** 24 **Contact Hours:** 12 per week

**■ AAB711 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.

**Credit Points:** 12 **Contact Hours:** 3 per week

**■ AAB712 CONTEMPORARY ART ISSUES**

Current practices in the visual arts are addressed by analysing and interpreting original works on exhibition, in stockrooms and in studios. By means of lectures, discussions and analysis of artworks and readings, the individual's awareness of the conceptual, historical and philosophical contexts concerning artists and the artworks are heightened.

**Credit Points:** 12 **Contact Hours:** 3 per week

**■ AAB713 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:** 24

**■ AAB714 PROFESSIONAL STUDIES**

Studio workshop management; business principles; legal principles; promotion and marketing.

**Credit Points:** 12 **Contact Hours:** 4 per week

**■ AAB720 EXTENDED MEDIA STUDY 2**

Extension of studio work in conjunction with AAB708.

**Credit Points:** 12 **Contact Hours:** 3 per week

**■ AAB721 EXTENDED MEDIA STUDY 4**

Extension of studio work in conjunction with AAB709.

**Credit Points:** 12 **Contact Hours:** 3 per week

**■ AAB722 EXTENDED MEDIA STUDY 6**

Extension of studio work in conjunction with AAB710.

**Credit Points:** 12 **Contact Hours:** 3 per week

**■ AAB724 RENAISSANCE STUDIES**

An investigation of aspects of western European art between 1300 and 1600. Topics include the historiography of the Renaissance, art and humanism, the development of perspective, iconography, patronage, portraiture, the status of the artist. These topics are considered through a study of painting, sculpture, architecture and appropriate literary sources.

**Credit Points:** 12 **Contact Hours:** 3 per week

**■ AAB725 INTRODUCTION TO SOUTH-EAST ASIAN ART**

Emphasises the influence of Buddhist and Hindu religions in the making of art in South-east Asia and by extension India, China and Japan. The influence of Islam in Indonesian art compared with that of the indigenous religions.

**Credit Points:** 12 **Contact Hours:** 3 per week

**■ AAB901 ART EDUCATION**

The nature of art within schools and society for the generation of principles for identifying, selecting and organising components into art programs which effectively develop responses within children at suitable stages of their development. Ranges of teaching strategies, art program models and resources related to the neophyte teachers' practical needs of structuring and sequencing learner experiences.

**Credit Points:** 8 **Contact Hours:** 3 per week

**■ AAB902 VISUAL ARTS 1**

These studies are structured to develop students' expressive and critical abilities through the exploration of visual problems within the parameters of available media. Based on the two broad clusters of 2 dimensional and 3 dimensional media, students resolve some predetermined visual problems through conventional and/or divergent responses. These responses are in terms of employing traditional and contemporary media.

**Credit Points:** 8 **Contact Hours:** 3 per week

**■ AAB903 VISUAL ARTS 2**

Greater familiarisation with selected media allows students to initiate, enhance and develop their own visual appreciation and responses. A key feature of this subject is the development of imagery suitable to the media selected. Detailed investigation of material processes, historical responses and contemporary approaches to visual stimuli and problems is undertaken.

**Prerequisite:** AAB902

**Credit Points:** 12 **Contact Hours:** 3 per week

**■ AAB904 VISUAL ARTS 3**

Develops the students' detailed understanding and technical competencies of their selected media through a combination of structured and student initiated programs. The fields of critical analysis and personal imagemaking are fostered and enhanced. Contemporary trends and issues in the selected media are a major feature of this subject.

**Prerequisite:** AAB903

**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ AAB905 DRAMA EDUCATION

Through workshop and practical fieldwork students acquire a basic knowledge of the functions, scope and sequence of children's dramatic play. The growth of pro-social ability through role-taking in naturalistic social settings from ages 1-15 is observed and analysed. This background is contextualised through a practical exploration of a range of appropriate approaches to drama in the classroom.

**Credit Points:** 8      **Contact Hours:** 3 per week

### ■ AAB906 MUSIC EDUCATION 1

Awareness of the stages of music growth through a sequenced methodology including solfa and classroom choral studies with classroom instrument accompaniment. Modern approaches to teaching of recorder in the classroom. Elements of rhythm, melody, form, harmony, style and expression form the basis of the approach.

**Credit Points:** 8      **Contact Hours:** 3 per week

### ■ AAB907 MUSIC EDUCATION 2

The study of the music curriculum at a more advanced level. Familiarity with the philosophy, objectives, content strategies and evaluation techniques of selected programs gives students a broad base on which they can design their own music programs. Creativity and practical skills develop through issues raised in studies of selected programs.

**Prerequisite:** AAB906

**Credit Points:** 8      **Contact Hours:** 3 per week

### ■ AAB909 PERFORMING ARTS 2

Having established a basic understanding of the elements common to all drama, students explore those specific to the dramatic-playing mode. Skills in the planning and leading of those dramatic genres based around improvisatory approaches are acquired as students conduct a series of improvisation for their peers. Particular skills in the shaping of drama include those of leader-in-role, participant enrolment, negotiation, distancing devices and means of reflection.

**Prerequisite:** AAB908

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ AAB910 PERFORMING ARTS 3

The performance of a major choral work; analysis interpretation, style, techniques of conducting and rehearsing. Students select an historical topic for research and develop further techniques on composition or solo/ensemble performance.

**Prerequisite:** AAB909

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ AAB921 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:** 4      **Contact Hours:** 2 per week

### ■ AAB922 PAINTING & DRAWING

Pictorial exercises based on colour and form, involving extensive studio work, history or drawing, gallery visits and analytical criticism of drawings, experimental graphic processes.

**Credit Points:** 4      **Contact Hours:** 2 per week

### ■ AAB923 PRINTMAKING 1

Exploration of a wide range of printmaking devices: relief – preparation of a surface by addition (collage), and by subtraction (linoleum); intaglio – acetate, engraving, paper drypoint.

**Credit Points:** 4      **Contact Hours:** 2 per week

### ■ AAB924 SCULPTURE

Development of conceptual expression through 3 dimensional materials: clay, metal, leather and wood.

**Credit Points:** 4      **Contact Hours:** 2 per week

### ■ AAB925 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:** 8      **Contact Hours:** 2 per week

### ■ AAB926 COMMUNICATION THROUGH DRAMA

Voice and speech development; creative and developmental drama; interpretation of literature; group discussion techniques; oral skills of the classroom.

**Credit Points:** 8      **Contact Hours:** 2 per week

### ■ AAB927 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.

**Credit Points:** 8      **Contact Hours:** 2 per week

### ■ AAB929 DANCE CONDITIONING & 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:** 4      **Contact Hours:** 2 per week

### ■ AAB931 NATIONAL & FOLK DANCE

Development of steps and styles of selected national and folk dances; understanding of cultural background of selected populations; investigation of costumes appropriate to selected population; demonstration of selected national and folk dances.

**Credit Points:** 8      **Contact Hours:** 2 per week

### ■ AAB932 PRACTICAL STUDIES B1 (EC)

Group tuition on a wind or brass instrument; basic performing techniques; ensemble experience (i.e., wind ensemble or stage band). Continues into second semester.

**Credit Points:** 4      **Contact Hours:** 3 per week

### ■ AAB933 PRACTICAL STUDIES B2 (EC)

Continuation from AAB932.

**Credit Points:** 4      **Contact Hours:** 3 per week

### ■ AAB935 GUITAR FOR BEGINNERS

Development of skill in playing basic guitar chords, strumming suitable rhythmic patterns and leading of group singing with guitar. Available only to beginners or those with little recent experience on guitar.

**Credit Points:** 4      **Contact Hours:** 1 per week

### ■ AAB936 PIANO FOR BEGINNERS

Introduction to the piano as a practical instrument for use in both recreational and classroom situations; sight reading; harmonisation. Available only to those with no previous experience on piano.

**Credit Points:** 4      **Contact Hours:** 1 per week

### ■ AAB937 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:** 4      **Contact Hours:** 2 per week

**■ AAB938 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:** 8      **Contact Hours:** 2 per week

**■ AAN001 ARTS RESEARCH METHODS I**

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

**■ AAN003 AESTHETIC CODES IN CONTEMPORARY SOCIETY**

An investigation of theories of art within the discipline of aesthetics. Five key questions are addressed, against a background of contemporary western society.

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ AAN004 GRADUATE SEMINAR**

A seminar series for Honours and Masters students involving presentations by guests; in addition, staff discuss current research interests, and students report on issues arising in their own thesis work.

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ AAN200 DRAMATURGY**

Students investigate the roles of dramaturgy in western theatre. Major practical exercise as production dramaturg on a current production.

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ AAN201 CONTEMPORARY AUSTRALIAN PLAYWRIGHTS**

Students study a number of current Australian playwrights; seminar papers focus on each writer, with input from directors, actors and writers.

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ AAN202 TEXTUAL ANALYSIS**

Students extend the analytical framework undertaken in AAN502 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.

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ AAN700 CONTEMPORARY DEBATES ON THE NATURE OF ART**

Contemporary trends in the visual arts, nationally or internationally. The effect of the information revolution, technology and changing modes of world government and their economic/marketing implications. The relationship between modernism and post-modernism. The development of new conventions and values. A broad sense of post-structuralist critical tools employed in visual analysis.

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ AAP420 THE ARTS CURRICULUM & TEACHING STUDIES A**

A comprehensive philosophical and practical base enabling students to construct worthwhile learning experiences through, for and about the arts. There is specific reference to dance education, drama education, music education (primary and secondary) and visual arts education. The subject has two emphases. The first addresses the how and why looking at the inter-disciplinary capacity of these skills and understandings. The second addresses the what. Both are

geared to the provision of productive and critical skills assisting students' orientation and integration into the teaching profession.

**Prerequisite:** Appropriate discipline studies in the undergraduate degree.

**Co-requisite:** EDP450

**Credit Points:** 24      **Contact Hours:** 6 per week

**■ AAP421 DANCE CURRICULUM & TEACHING STUDIES B**

Provides a theoretical context and considers practical applications in assessment, curriculum planning and teaching and learning strategies and examines the roles of the teacher in the community and the profession.

**Prerequisite:** AAP420      **Co-requisite:** EDP451

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ AAP422 DRAMA CURRICULUM & TEACHING STUDIES B**

Provides a theoretical context and considers practical applications in assessment, curriculum planning and teaching and learning strategies and examines the roles of the teacher in the community and the profession.

**Prerequisite:** AAP420      **Co-requisite:** EDP451

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ AAP423 MUSIC CURRICULUM & TEACHING STUDIES B**

Provides a theoretical context and considers practical applications in assessment, curriculum planning and teaching and learning strategies and examines the roles of the teacher in the community and the profession.

**Prerequisite:** AAP420      **Co-requisite:** EDP451

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ AAP424 VISUAL ARTS CURRICULUM & TEACHING STUDIES B**

Provides a theoretical context and considers practical applications in assessment, curriculum planning and teaching and learning strategies and examines the roles of the teacher in the community and the profession.

**Prerequisite:** AAP420      **Co-requisite:** EDP451

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ AAP425 DRAMA CURRICULUM & TEACHING STUDIES C**

This Curriculum B subject provides opportunities for students to critically examine and develop skills and understandings in significant areas of teaching and learning in drama. It provides a theoretical context and considers practical applications in assessment, curriculum planning and teaching and learning strategies and examines the roles of the teacher in the community and the profession.

**Co-requisite:** EDP451

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ AAP426 MUSIC CURRICULUM & TEACHING STUDIES C**

This Curriculum B subject provides opportunities for students to critically examine and develop skills and understandings in significant areas of teaching and learning in music. It provides a theoretical context and considers practical applications in assessment, curriculum planning and teaching and learning strategies and examines the roles of the teacher in the community and the profession.

**Co-requisite:** EDP451

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ AAP427 VISUAL ARTS CURRICULUM & TEACHING STUDIES C

This Curriculum B subject provides opportunities for students to critically examine and develop skills and understandings in significant areas of teaching and learning in visual arts. It provides a theoretical context and considers practical applications in assessment, curriculum planning and teaching and learning strategies and examines the roles of the teacher in the community and the profession.

**Co-requisite:** EDP451

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ AAP501 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:** 3 per week

### ■ AAP502 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:** AAP501

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ AAP503 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

### ■ AAP504 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:** AAP505

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ AAP505 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 and 3 Dimensional textile artefacts/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

### ■ AAP506 FIBRE ARTS 2

Continuation of AAP505. Nature of fibres; fibre construction; printing techniques suitable for fibre arts; embellishing fibre surfaces.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ AAP507 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 pursued in both studio classes and professional practice.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ AAP508 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

### ■ AAP509 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

### ■ AAP510 PHOTOGRAPHIC MEDIA 2

Continuation of AAP509. Photographic techniques; innovative approaches to photography; history of photography; personal approaches to photography.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ AAP511 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

### ■ AAP512 PRINTMAKING 2

Continuation of AAP511. Motivational sources; creation and external applications of techniques and media related to printmaking; exploration of related art areas.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ AAP513 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      **Contact Hours:** 3 per week

### ■ AAP514 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:** 3 per week

### ■ AAP530 CURRICULUM ANALYSIS & MODIFICATION

Detailed study of six programs; teacher-devised programs; critical analysis; basic elements of curriculum design; design of programs in music for information and evaluation.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ AAP531 ISSUES IN MUSIC EDUCATION

Developments in arts education in Queensland within P-10 framework; role of arts/music education; the 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

### ■ AAP532 STUDIES IN CURRICULUM

Study of movement, voice and classroom instruments and associated literature; writing and arranging music for classroom use; developing teaching strategies for

voice, movement and instrumental music, rehearsal and conducting techniques.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ AAP533 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

### ■ AAP534 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

### ■ AAP535 TWENTIETH CENTURY MUSIC

Use twentieth century rhythms through dictation, composition, improvisation and performance; explore overtone series; understand tone clusters; sound mass and aleatoric procedures; perform material from the twentieth century.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ AAX101 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:** 8      **Contact Hours:** 2 per week

### ■ AAX102 COMPOSITION 2

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 work, discussion of criteria for evaluation and assessment of dance works. Choreography of a work for public performance.

**Prerequisite:** AAX101

**Credit Points:** 8      **Contact Hours:** 2 per week

### ■ AAX103 MUSIC 1

Introduction to musical basics through aural and written theories.

**Credit Points:** 8      **Contact Hours:** 1.5 per week

### ■ AAX104 DANCE KINESIOLOGY & ALIGNMENT

Principles which govern human stability and motion; ways in which muscles work to produce dance movement; machines of the body; movement and dance injuries.

**Credit Points:** 12      **Contact Hours:** 3.5 per week

### ■ AAX105 DANCE STYLES 1

Study of folk dance, tap dance and jazz dance styles. Practical work includes: folk steps and dances from selected parts of the world; tap and jazz dance combinations and routines for performance.

**Credit Points:** 8      **Contact Hours:** 2 per week

### ■ AAX106 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, study of character and jazz styles; practical work includes basic technique, step combinations, solo and group choreographic work.

**Prerequisite:** AAX105

**Credit Points:** 8      **Contact Hours:** 3 per week

### ■ AAX107 DANCE TECHNIQUES 1

A study of ballet and contemporary dance techniques. Principles of classic techniques; practical work includes barre work, adagio, pirouettes, allegro, pointe work and pas de deux. Practical work includes floor work, centre work and basic combinations; combinations to develop flexibility, strength and coordination; vocabulary of contemporary dance techniques; off-balance technique.

**Credit Points:** 16      **Contact Hours:** 15 per week

### ■ AAX108 DANCE TECHNIQUES 2

Further study of ballet and contemporary dance techniques.

**Prerequisite:** AAX107

**Credit Points:** 16      **Contact Hours:** 15 per week

### ■ AAX109 DANCE TECHNIQUES 3

Continuation of classical and contemporary dance techniques.

**Prerequisite:** AAX108

**Credit Points:** 16      **Contact Hours:** 15 per week

### ■ AAX110 DANCE TECHNIQUES 4

Consolidation of classical and contemporary dance techniques.

**Prerequisite:** AAX109

**Credit Points:** 16      **Contact Hours:** 15 per week

### ■ AAX111 REPERTOIRE & PRACTICE PERIOD 1

Study of selected repertoire pieces; rehearsal of individual aspects of the repertoire work; performance of all or part of the selected repertoire; preparation for rehearsals and performance; technique and dress rehearsals; critical evaluation during season and post-performance evaluation.

**Credit Points:** 12

### ■ AAX112 REPERTOIRE & PRACTICE PERIOD 2

Continuation of studies initiated in AAX111.

**Prerequisite:** AAX111

**Credit Points:** 16

### ■ AAX113 REPERTOIRE & PRACTICE PERIOD 3

Continuation of AAX112.

**Prerequisite:** AAX112

**Credit Points:** 16

### ■ AAX114 REPERTOIRE & PRACTICE PERIOD 4

Continuation of AAX113; preparation for the dance industry; preparation of curriculum vitae and funding applications.

**Prerequisite:** AAX113

**Credit Points:** 16

### ■ AAX115 DANCE HISTORY

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:** 8      **Contact Hours:** 1.5 per week

### ■ AAX116 STAGECRAFT

Basic principles of stage production including make-up, stage lighting design and operation; sound recording and operation, costuming for dance including properties of fabric design and construction.

**Credit Points:** 8      **Contact Hours:** 2 per week

## ■ ALB100 ADMINISTRATIVE LAW

Principles of administrative law; discretionary powers of governments and their instrumentalities and the corresponding rights and obligations of business entities, viz dealing with the Australian Taxation Office or the Australian Securities Commission, freedom of information, administrative tribunals and remedies.

**Prerequisite:** ALB110 or ALB108

**Credit Points:** 12      **Contact Hours:** 3 per week

## ■ ALB101 COMMERCIAL LAW

Commercial law: agency, bailment guarantees, cheques and other negotiable instruments, insurance and banking; aspects of partnerships and company law.

**Prerequisite:** ALB107

**Credit Points:** 12      **Contact Hours:** 3 per week

## ■ ALB103 FINANCIAL INSTITUTIONS LAW

The general processes of the legal system; legal structures of financial institutions, bank-customer relationship; Cheque Act, Credit Act, negligent advice.

**Prerequisite:** ALB110

**Credit Points:** 12      **Contact Hours:** 3 per week

## ■ ALB104 INDUSTRIAL LAW

The system of industrial law in Australia; the development and role of law in industrial relations; industrial relations legislation; common law; contract of employment and industrial torts.

**Prerequisite:** HRB131

**Credit Points:** 12      **Contact Hours:** 3 per week

## ■ ALB105 INTERNATIONAL BUSINESS LAW

Examination of the law governing the establishment and conduct of international business; business structures, international contracts, competing legal jurisdictions, international codes of conduct and an introduction to the taxation consequences of international business.

**Prerequisite:** ALB110

**Credit Points:** 12      **Contact Hours:** 3 per week

## ■ ALB107 LEGAL ENVIRONMENT OF BUSINESS

The major statutes of 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.

**Credit Points:** 12      **Contact Hours:** 3 per week

## ■ ALB110 BUSINESS LAW

Australian legal and constitutional system; sources of law, including doctrines and methodology of the law; statutory interpretation; a study of the law of contract; introduction to the law of torts with emphasis on the tort of negligence; aspects of consumer protection.

**Credit Points:** 12      **Contact Hours:** 3 per week

## ■ ALB111 COMMERCIAL & SECURITIES LAW

Specific types of contract: sales of goods, credit contracts, agency, bailment and insurance; aspects of the Trade Practices Act and negotiable instruments.

**Prerequisite:** ALB110

**Credit Points:** 12      **Contact Hours:** 3 per week

## ■ ALB120 COMPANY LAW & PRACTICE

The practical implementation of the accounting, auditing, meeting and managerial requirements of the Corporations Law; the outworking of the law relating

to insolvent and financially troubled companies; company take-overs and share buy-backs and the protection of minority interests.

**Prerequisite:** ALB122

**Credit Points:** 12      **Contact Hours:** 3 per week

## ■ ALB121 INSOLVENCY LAW & PRACTICE

Nature and effects of insolvency and liquidation; a comparison of the tests of insolvency applicable to individuals, companies, partnerships and trusts respectively; rights of secured and unsecured creditors; duties and liabilities of liquidators, receivers, etc.; company shareholders' rights; distribution of property; liabilities of bankrupts, trustees and company officers.

**Prerequisite:** AYN112, AYB111, ALB122

**Credit Points:** 12      **Contact Hours:** 3 per week

## ■ ALB122 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. A focus on companies, in particular, share capital prospectuses, directors' duties, incorporation and registration requirements.

**Prerequisite:** ALB110

**Credit Points:** 12      **Contact Hours:** 3 per week

## ■ ALB131 TAX PLANNING

General principles of tax practice; judicial, statutory and professional approaches to tax avoidance and evasion; structuring and restructuring business enterprises; tax planning for the employed person: current and retiring; implications of the Family Law Act.

**Prerequisite:** ALB133

**Credit Points:** 12      **Contact Hours:** 3 per week

## ■ ALB132 TAXATION LAW

Statutory framework; assessable income: general and specific; capital gains; trading stock; allowable deductions: general and specific; levy of income tax: all entities; fringe benefits tax.

**Prerequisite:** ALB133

**Credit Points:** 12      **Contact Hours:** 3 per week

## ■ ALB133 TAXATION OF BUSINESS ENTITIES

Partnerships, trusts, superannuation funds and companies; concessional treatment afforded specific classes of taxpayer; international taxation: introduction, administration and avoidance provisions; introduction to business taxes which are not applied to income.

**Prerequisite:** ALB132

**Credit Points:** 12      **Contact Hours:** 3 per week

## ■ ALN101 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. Consideration is also given to the professional responsibilities of tax advisers.

**Credit Points:** 12      **Contact Hours:** 3 per week

## ■ ALN102 ADVANCED TAXATION

A conceptual analysis of the Australian income tax system to give perspective and meaning to technical law. Some specific and complex practical problems raised by the Income Tax Assessment Act and related legislation are analysed in depth.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ ALN103 BUSINESS LAW & ETHICS

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; how morality works as an aspect of the business community, the origins of moral belief, and the motives which lead people to abide by what they believe to be morally right and to persuade others to do likewise. The functioning morality in society drawing on psychological, sociological and philosophical perspectives with special emphasis on business aspects of morality.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ ALN104 COMMERCIAL LAW HONOURS

Examination of the law, policy and practice of financial disclosure. The objectives are to give students the opportunity to obtain a detailed understanding of the rules governing the preparation and audit of financial information whether for annual accounts, experts' reports, or for use in prospectuses or take-overs. It examines the respective theories governing accountants, auditors' and directors' liabilities. Sources of law considered include the Corporations Law, the Australian Stock Exchange listing rules, accounting standards and the Common Law.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ ALN105 INDIRECT TAXATION

Examination of tax relevant to the conduct of a business other than taxes directly imposed on a taxpayer's income and capital gains. Specific taxes covered include sales tax, payroll tax, land tax, stamp duty, customs, excise duties and the training guarantee levy.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ ALN106 INTERNATIONAL TAXATION

Application of principles of Australian income tax law and practice to situations and transactions with an international element; measures to combat international tax avoidance.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ ALN107 LIQUIDATIONS & RECEIVERSHIP

Examination of the law and practice of corporate insolvency; comparisons between schemes of arrangement and reconstruction, receiverships and liquidation. Topics include: the rights of secured and unsecured creditors; rights of members and employees; duties and obligations of scheme administrators, receivers and liquidators; collection and distribution of assets; public examination; and actions against company officers.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ ALN109 SPECIAL TOPIC – COMMERCIAL LAW

Examination of issues of great contemporary significance in the business law, company law and taxation areas. In particular, issues of management law, disclosure of information and the new conceptual framework for accounting and professional liability are likely to be the preferred topics in 1992.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ ALN110 TAXATION POLICY HONOURS

The Australian taxation system as it has evolved under the policy-making powers of the Australian Government. Generally accepted principles governing the formation of taxation policy are analysed and then reviewed in the light of the various tax reform initiatives adopted by the Government as a result of the

recommendations of committees of enquiry into the taxation system over the past two decades.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ ALN300 INSOLVENCY & RECONSTRUCTION (PY)

Examination of the law and practice of corporate insolvency; comparisons between schemes of arrangement and reconstruction, receiverships and liquidation; the rights of secured and unsecured creditors; rights of members and employees; duties and obligations of scheme administrators, receivers and liquidators; collection and distribution of assets; public examination; actions against company officers.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ ALN301 TAXATION 1 (PY)

This subject prepares candidates enrolled in the Institute of Chartered Accountants Professional Year for the examination and workshops in the taxation module. Topics as prescribed by the Institute are covered in cursory fashion or in depth according to the particular knowledge level requirements specified.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ ALN302 TAXATION 2 (PY)

A study program for candidates enrolled in the advanced taxation module in of the Institute of Chartered Accountants Professional Year. Topics prescribed by the Institute are covered in sufficient depth to meet the knowledge level requirements as specified in the module.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ ALP101 EMPLOYMENT LAW

Understanding of institutions, doctrines and methodology of general and industrial law; analysis of employment relationships; common law contract of employment; workers' compensation; legal liability for industrial action; the structure of Federal and Queensland industrial relations laws.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ ALP102 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:** 3 per week

### ■ ALX100 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:** 3 per week

### ■ ALX101 AUSTRALIAN INDUSTRIAL LAW

Conciliation and arbitration laws; the Federal laws on dispute resolution, the Labor Court, special tribunals, State systems; functioning and regulation of industrial organisations and trade unions; laws relating to strikes and industrial disputes.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ ALX102 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:** 3 per week



# ■ ARB140 INTRODUCTORY DESIGN 1

Mechanical drawing techniques; 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

# ■ ARB141 THE HUMAN ENVIRONMENT 1

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. 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

# ■ ARB151 INTRODUCTION TO TECHNOLOGY

Basic knowledge on applied technologies and how they relate to industrial products and systems. The lecture topics include: social and technological change in an historical context; the industrial society and the role of the designer; new technologies and social change; appropriate technologies and their implication design.

**Credit Points:** 2      **Contact Hours:** 1 per week

# ■ ARB161 LIGHT & COLOUR STUDIES

Colour vision, colour harmony and contrast, mixing and the application of colour, examination of a range of contemporary theories relating to the use of colour in design; and introduction to the study of the qualitative effects of lighting on form and colour in interiors. The physiological-psychological basis for colour relations and the range of techniques used to apply these theories in the design professions.

**Co-requisite:** ARB140

**Credit Points:** 8      **Contact Hours:** 2 per week

# ■ ARB191 THE HUMAN ENVIRONMENT 1

The dimensions and movement of the human body as a perpetual system for human use; 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

# ■ ARB193 DESIGN 1

Design theory: design definition; perception; elements and principles of design; effects of colour, texture, contour, pattern; human dimensions; anthropometrics, elements of aesthetics. Graphics: descriptive geometry; architectural graphics and rendering; freehand drawing and sketching. Design projects: 2 dimensional and 3 dimensional objects; personal working and living space.

**Credit Points:** 10      **Contact Hours:** 5 per week

# ■ ARB194 DESIGN 2

See ARB193.

**Credit Points:** 10      **Contact Hours:** 5 per week

# ■ ARB195 TECHNOLOGY 1

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.

**Credit Points:** 4      **Contact Hours:** 2 per week

# ■ ARB196 TECHNOLOGY 2

See ARB195.

**Credit Points:** 4      **Contact Hours:** 2 per week

# ■ ARB197 HISTORY OF THE BUILT ENVIRONMENT 1

The development of man's artificial environment and its relationship to ideas, technology, architecture and the fine arts from the earliest times to the present.

**Credit Points:** 2      **Contact Hours:** 1 per week

# ■ ARB198 HISTORY OF THE BUILT ENVIRONMENT 2

See ARB197.

**Credit Points:** 2      **Contact Hours:** 1 per week

# ■ ARB241 HISTORY OF THE BUILT ENVIRONMENT 2

A continuation of ARB197. History of the following from circa 1600 AD: ideas, art, and two 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

# ■ ARB251 ERGONOMICS FOR INDUSTRIAL DESIGNERS 1

Psychomotor skills; human information processing; human-machine interfaces; displays, controls, and tools; human-machine system properties; feedback and controls; workplace design; noise; stress; vibration; legal aspect; safety and product liability. Practical exercises cover application of lecture topics to product design.

**Credit Points:** 2      **Contact Hours:** 2 per week

# ■ ARB261 INTRODUCTION TO INTERIOR TECHNOLOGY

Introduction to the elements of construction systems and construction materials; the development of skills in measuring, surveying and recording information on existing spaces in buildings. Lectures deal with basic structural systems and building carcass. Instruction is given in techniques of measuring and recording existing structures.

**Co-requisite:** PLB200

**Credit Points:** 8      **Contact Hours:** 3 per week

# ■ ARB288 DESIGN SCIENCE 2

Basic design for hot humid climates, principles governing air flow through and around buildings and space. Natural ventilation, introduction to air flow in cities. Testing of air flow through and around models. Basic design for hot arid climates and cold climates; macro and micro climatic conditions and their evaluation for design; manual and computerised climatic evaluation.

**Credit Points:** 2      **Contact Hours:** 1 per week

# ■ ARB289 DESIGN SCIENCE 1

The principles of science and their implications for the design of buildings and spaces; the application of these principles in the conceptual stages of design, laboratory tests and computer evaluations of design proposals. Quantity and quality of light; day lighting in buildings; manual and computerised projection of solar shadows. Testing of models on heliodon and artificial sky.

**Credit Points:** 2      **Contact Hours:** 1 per week

### ■ ARB290 INTRODUCTION TO COMPUTING 2

Computer as tool for drafting; line graphics; plotting, 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 3

The social and cultural development of Australian urban environments, local built environments; study of human functioning in urban environments, 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 4

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 style and 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 3

Theory: scope of design; Reitzman'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. Architectural projects: single-storey to low-rise buildings of domestic or semi-domestic nature. Graphics: use of media for presentation of architectural projects; use of colour, shade, shadow in architectural drawings; 3 dimensional presentation and modelling.

**Credit Points:** 10      **Contact Hours:** 5 per week

### ■ ARB294 DESIGN 4

See ARB293.

**Credit Points:** 8      **Contact Hours:** 4 per week

### ■ ARB295 BUILDING CONSTRUCTION 1

Building construction of domestic and semi-domestic buildings with upper floors, excavation, retaining walls, culverts, site and soil investigations, footings, frames and load bearing walls, 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 2

See ARB295.

**Credit Points:** 4      **Contact Hours:** 2 per week

### ■ ARB297 PRINCIPLES OF STRUCTURES 1

Basic principles of structures as applicable to elements of architecture, industrial design, interior design and landscape architecture. Terminology, forces and reactions; loading on structures, equilibrium and stability; co-planar and non-coplanar forces; resolution of forces; mechanics of structural components under load, compression, tension, bending, shear, deflection. Connections.

**Credit Points:** 2      **Contact Hours:** 1 per week

### ■ ARB298 PRINCIPLES OF STRUCTURES 2

Principles and application of building structures in timber and masonry. Loading in buildings; foundations and footings; timber structures as floors, walls and roofs, framing and cladding, fastening and connections; structural stability. Masonry construction: brickwork and blockwork, load bearing construction; continuity; stiffening; opening. Codes.

**Credit Points:** 4      **Contact Hours:** 2 per week

### ■ ARB299 INTRODUCTION TO COMPUTING 1

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 deformation.

**Credit Points:** 2      **Contact Hours:** 1 per week

### ■ ARB340 ARCHITECTURAL DESIGN 1

Theory: concepts of design process; systematic methodology in architectural design. Studio: developing skills in site surveys, adjacency analysis, brief formation, application of architectural science; to inculcate concerns for safety, comfort, construction, content form and order.

**Prerequisite:** PLB200

**Credit Points:** 18      **Contact Hours:** 8 per week

### ■ ARB341 BUILDING CONSTRUCTION 1

Introduction to common building materials, their properties and behaviour in use; the building as a system; elements of the small building and their function in the building system. 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

### ■ ARB342 DESIGN SCIENCE 1

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

### ■ ARB343 VISUAL COMMUNICATION FOR ARCHITECTS 1

Introduction to various techniques for presenting architectural works using manual skills and computer techniques.

**Credit Points:** 4      **Contact Hours:** 2 per week

### ■ ARB350 INDUSTRIAL DESIGN 1

Scope of problem solving theory; special characteristics of design problems; the task environment, design heuristics; creativity and innovation and general psychological theories of creativity. The studio exercises to which most of the time is devoted are aimed at a range of different product designs. The complexity and depth of the design project will increase systematically according to the semester level.

**Prerequisite:** PLB200

**Credit Points:** 18      **Contact Hours:** 8 per week

### ■ ARB351 ERGONOMICS FOR INDUSTRIAL DESIGNERS 2

Person-machine system models; human capabilities; hearing and signal detection theory; vision; and user

modelling. Practical exercises cover application of lecture topics to product design.

**Prerequisite:** ARB251

**Credit Points:** 4      **Contact Hours:** 2 per week

### ■ ARB352 VISUAL COMMUNICATION FOR INDUSTRIAL DESIGNERS I

The development of visual communication techniques; introduction to rendering techniques and the use of different visual communication media.

**Credit Points:** 4      **Contact Hours:** 2 per week

### ■ ARB353 MANUFACTURING TECHNOLOGY I

Metals, glass, wood, ceramics and plastics technologies: the relation between the properties of materials and the industrial processes available for their fabrication. Application of the study of materials and their fabrication to design problems will be the subject of studio exercises.

**Credit Points:** 12      **Contact Hours:** 6 per week

### ■ ARB354 CAD FOR INDUSTRIAL DESIGNERS I

PC computer operation, DOS, file and disk management. Introduction to the use of graphics and CAD by industrial designers. Applications in design, presentation graphics and engineering drawings, and introduction to 3D CAD.

**Credit Points:** 4      **Contact Hours:** 2 per week

### ■ ARB360 INTERIOR DESIGN I

Introduction to a systematic design process related to interior design problems. Lectures cover problem-solving theory and studio exercises include a range of interior design problems.

**Prerequisite:** PLB200

**Co-requisite:** ARB361

**Credit Points:** 18      **Contact Hours:** 8 per week

### ■ ARB361 INTERIOR TECHNOLOGY I

Upgrades the technical drawing skills developed in ARB261 and introduces students to the building codes and by-laws regulating the design and construction of building interiors at the domestic level; discusses issues such as the evolution of building materials and the evaluation of material performance and suitability.

**Prerequisite:** ARB261

**Co-requisite:** ARB360

**Credit Points:** 16      **Contact Hours:** 6 per week

### ■ ARB362 FURNITURE & FITTINGS I

Introduction to fabrics and textiles in interior design; wall to wall carpeting; curtains and blinds; upholstery; in each case materials, properties and techniques are discussed; the role of fabrics and textiles in interior design.

**Credit Points:** 4      **Contact Hours:** 2 per week

### ■ ARB363 VISUAL COMMUNICATION FOR INTERIOR DESIGNERS I

Visual thinking and drawing and basic rendering skills, the production of rough mock-ups and scale model making.

**Prerequisite:** PLB200

**Credit Points:** 4      **Contact Hours:** 2 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.

**Credit Points:** 2      **Contact Hours:** 1 per week

### ■ ARB388 DESIGN SCIENCE 4

Principles governing control of noise and aural conditions in buildings; basic acoustic design and noise control in buildings. Electrical lighting of interiors, lamp characteristics, colour rendering, modelling, lighting quality, simplified lighting design methods, external lighting.

**Credit Points:** 2      **Contact Hours:** 1 per week

### ■ ARB389 DESIGN SCIENCE 3

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. Computer-aided planning analysis and environmental control analysis; integration with design.

**Credit Points:** 4      **Contact Hours:** 2 per week

### ■ ARB391 BUILDING SERVICES I

Hydraulics: water supply; gas; plumbing; drainage and sewage as applicable to domestic and low-rise buildings. Fire services; sprinklers; alarms; extinguishers; emergency systems.

**Credit Points:** 4      **Contact Hours:** 1.5 per week

### ■ ARB392 BUILDING SERVICES 2

Electricity: supply and transmission systems; sub-stations; metering; reticulation. Vertical transportation; lifts; escalatory hoists. Air-conditioning; refrigeration cycle, principles of air-conditioning, equipment components, domestic and commercial systems; approximate sizing of plant rooms and ductwork; cooling load estimate; choice of systems.

**Credit Points:** 3      **Contact Hours:** 1.5 per week

### ■ ARB393 DESIGN 5

Theory: the building as object, surface, volume, space, and sequence; expression of building; criteria of good design in terms of style, function, form, structure, services, context, environment, society, and other relevant issues; design ethics and values. Projects: low to medium rise with emphasis on industry and commerce; integration with architectural science; flow charting; building type analysis.

**Credit Points:** 8      **Contact Hours:** 4 per week

### ■ ARB394 DESIGN 6

See ARB393.

**Credit Points:** 8      **Contact Hours:** 4 per week

### ■ ARB395 BUILDING CONSTRUCTION 3

Site investigations, earth and rock retaining systems, foundations including piles, bored piers and rafts, underpinning and shoring, medium-rise masonry construction, structural steel concrete and composite structures, service cores, precast concrete, prestressed concrete: systems for floors, roofs, external cladding, partitions, ceilings; waterproofing, corrosion protection, fireproofing; building failures.

**Credit Points:** 3      **Contact Hours:** 1.5 per week

**■ ARB396 BUILDING CONSTRUCTION 4**

See ARB395.

**Credit Points:** 3      **Contact Hours:** 1.5 per week**■ ARB397 PRINCIPLES OF STRUCTURES 3**

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:** 3      **Contact Hours:** 1.5 per week**■ ARB398 PRINCIPLES OF STRUCTURES 4**

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 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**■ ARB440 ARCHITECTURAL DESIGN 2**

Theory: concepts of design process; systematic methodology in architectural design. Studio: developing skills in site surveys, adjacency analysis, brief formation, application of architectural science to inculcate concerns for safety, comfort, construction, content, form and order.

**Prerequisite:** ARB340**Credit Points:** 20      **Contact Hours:** 6 per week**■ ARB441 BUILDING CONSTRUCTION 2**

This subject will be conducted by the case study method, with lectures and studio work. Each case study will discuss the system characteristics of the problem, the human and environmental factors involved, and the technical systems required. Lectures and studio work will be complemented by field studies and workshop practice.

**Prerequisite:** ARB341**Credit Points:** 10      **Contact Hours:** 5 per week**■ ARB442 DESIGN SCIENCE 2**

Basic design for hot humid climates. Principles governing air flow around buildings. Natural ventilation. 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. Manual and computerised climatic evaluation.

**Prerequisite:** ARB342**Credit Points:** 2      **Contact Hours:** 1 per week**■ ARB443 VISUAL COMMUNICATION FOR ARCHITECTS 2**

Development of skills in various techniques for presenting architectural designs. Includes rendering and presentation techniques, audiovisual media, model making and portfolio organisation. The use of manual skills and computer techniques are studied.

**Credit Points:** 4      **Contact Hours:** 2 per week**■ ARB444 ENVIRONMENTAL STUDIES – ENVIRONMENTAL IMPACTS**

The impacts 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**■ ARB450 INDUSTRIAL DESIGN 2**

Design methodologies; design process; creativity and product innovation. The studio exercises to which most of the time is devoted are aimed at different product ranges. The complexity and depth of the design project will increase systematically according to the semester level.

**Prerequisite:** ARB350**Credit Points:** 20      **Contact Hours:** 6 per week**■ ARB452 VISUAL COMMUNICATION FOR INDUSTRIAL DESIGNERS 2**

The structure of presentation layouts; product graphics, photography; introduction to three-dimensional presentation – model making techniques.

**Prerequisite:** ARB352**Credit Points:** 4      **Contact Hours:** 2 per week**■ ARB453 MANUFACTURING TECHNOLOGY 2**

Application of engineering mechanisms to products or systems; analysis of the performances of mechanical, electrical, hydraulic and pneumatic mechanisms in relation to particular functions; introduction to electronics. Application of engineering to design problems is the subject of studio exercises.

**Prerequisite:** ARB353**Credit Points:** 10      **Contact Hours:** 5 per week**■ ARB454 CAD FOR INDUSTRIAL DESIGNERS 2**

Development of skills in the use of CAD in the production of 2 dimensional engineering drawings and introduction to 3 dimensional CAD using AUTOCAD. Shading of design evaluation drawing using paintbrush.

**Prerequisite:** ARB354**Credit Points:** 4      **Contact Hours:** 2 per week**■ ARB460 INTERIOR DESIGN 2**

Development of the design process; furthers a systematic approach to design, encourages the application of available technologies and philosophies. Studio exercises concentrate on problems with specific parameters.

**Prerequisite:** ARB360**Co-requisite:** ARB461**Credit Points:** 20      **Contact Hours:** 6 per week**■ ARB461 INTERIOR TECHNOLOGY 2**

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.

**Prerequisite:** ARB361**Co-requisite:** ARB460**Credit Points:** 10      **Contact Hours:** 5 per week**■ ARB462 FURNITURE & FITTINGS 2**

The manufacture, assembly and fabrication of furniture, fittings and components; expected performance of materials and furniture items, focuses on functional, maintenance, life span, economic properties.

**Prerequisite:** ARB362**Credit Points:** 4      **Contact Hours:** 2 per week**■ ARB463 VISUAL COMMUNICATION FOR INTERIOR DESIGNERS 2**

The achievement of a professional standard in techniques of graphic communication whilst allowing for the development of an individual style.

**Prerequisite:** ARB363**Credit Points:** 4      **Contact Hours:** 2 per week

### ■ ARB464 ARCHITECTURAL INTERIOR SYSTEMS 1

Lighting and acoustic considerations, human sensory and behavioural needs. An outline of systems and guidelines for selection and professional judgement.

**Prerequisite:** ARB361

**Credit Points:** 4 **Contact Hours:** 2 per week

### ■ ARB491 HISTORY OF ARCHITECTURE & ART 3

Early Australian 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:** 4 **Contact Hours:** 1 per week

### ■ ARB493 DESIGN 7

Theory: Masters of the twentieth century in Europe and USA and their architectural styles, design philosophies and influence; architects in Australia and their influence in Australasian architecture. Projects: brief, design, construction, services and landscape; a series of architectural projects of medium to high-rise construction with emphasis on workability and compliance with codes, by-laws and regulations.

**Credit Points:** 20 **Contact Hours:** 5 per week

### ■ ARB495 PROFESSIONAL STUDIES 1

Specifications; estimates; cost planning and control; codes; standards; building legislation; computer applications.

**Credit Points:** 16 **Contact Hours:** 4 per week

### ■ ARB497 ADVANCED TECHNOLOGY

Mechanisation of construction; construction machinery; excavation; piling; deep basement construction; high-rise construction systems; steel, reinforced concrete and pre-stressed concrete; framing; walling and flooring. Special services: energy management and maintenance systems; automated building systems; integration of design, structures, services and construction; decision making and choice of constructional methods and procedure. Prefabrication. Case studies.

**Credit Points:** 8 **Contact Hours:** 2 per week

### ■ ARB540 ARCHITECTURAL DESIGN 3

Theory: the building as object, surface, volume, space and sequence; expression of buildings; criteria of good design; design ethics and values. Studio: to develop ethics in design and to apply aesthetic theories in architectural projects, a series of architectural projects of low to medium use with emphasis on industry and commerce.

**Prerequisite:** ARB440

**Credit Points:** 20 **Contact Hours:** 6 per week

### ■ ARB541 BUILDING CONSTRUCTION 3

Studies will review the construction of non-domestic buildings of intermediate size. Each case study will discuss the system characteristics of the building type, the human and environmental factors which constrain the solution, and the associated building systems. Studio work will be complemented by field work.

**Prerequisite:** ARB441

**Credit Points:** 17 **Contact Hours:** 6 per week

### ■ ARB542 DESIGN SCIENCE 3

Thermal performance of buildings; energy conservation and low-energy design; calculation of heat flow and indoor temperatures under steady state and fluctuating conditions; control of noise and good hearing

conditions in buildings; basic acoustic design of auditoria.

**Prerequisite:** ARB442

**Credit Points:** 3 **Contact Hours:** 1 per week

### ■ ARB545 BUILDING SERVICES 1

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

### ■ ARB550 INDUSTRIAL DESIGN 3

Product design in depth. The projects are cross-referenced with other subject areas which will provide an integration of knowledge and skills acquired in the previous semesters. During the design projects, different specialist expertise is included.

**Prerequisite:** ARB450

**Credit Points:** 20 **Contact Hours:** 6 per week

### ■ ARB552 VISUAL COMMUNICATION FOR INDUSTRIAL DESIGNERS 3

Organisation of visual communication media relevant to the presentation of a product; the use of graphic skills in visual analysis; advanced renderings and exploded technical renderings.

**Prerequisite:** ARB452

**Credit Points:** 4 **Contact Hours:** 2 per week

### ■ ARB553 MANUFACTURING TECHNOLOGY 3

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 include visits to manufacturing industries. The application of production techniques will be developed through studio design projects.

**Prerequisite:** ARB453

**Credit Points:** 8 **Contact Hours:** 3 per week

### ■ ARB554 CAD FOR INDUSTRIAL DESIGNERS 3

Development of wire frame and shaded 3D evaluation presentation, introduction to animation; advanced 2D engineering drawing; evaluation of a product's features and characteristics; refinement through 3D studies, in wire frame and shaded versions.

**Prerequisite:** ARB454

**Credit Points:** 4 **Contact Hours:** 2 per week

### ■ ARB555 ECONOMICS OF INDUSTRIAL PRODUCTION

Commercial practice, costing production, marketing, strategic planning and capital budgeting.

**Credit Points:** 4 **Contact Hours:** 2 per week

### ■ ARB556 MARKETING

Marketing concept, market segmentation, marketing test, methodologies of forecasting, planning and organisation, costing of products, and the business issues of design.

**Credit Points:** 4 **Contact Hours:** 2 per week

### ■ ARB560 INTERIOR DESIGN 3

This subject gives the major time allocation to the studio and workshop. Students develop their knowledge of systematic interior design processes and at the same time apply knowledge gained in support and co-requisite subjects.

**Prerequisite:** ARB460

**Credit Points:** 20 **Co-requisite:** ARB561 **Contact Hours:** 6 per week

### ■ ARB561 INTERIOR TECHNOLOGY 3

Continuation of ARB461, 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.

**Prerequisite:** ARB461 **Co-requisite:** ARB560  
**Credit Points:** 16 **Contact Hours:** 6 per week

### ■ ARB562 FURNITURE & FITTINGS 3

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.

**Prerequisite:** ARB462  
**Credit Points:** 4 **Contact Hours:** 2 per week

### ■ ARB563 VISUAL COMMUNICATION FOR INTERIOR DESIGNERS 3

Visual and oral communication techniques employed in the production of design presentations to clients. The program consists of a series of studio exercises and mock-up presentations in a 'forum' environment.

**Prerequisite:** ARB463  
**Credit Points:** 4 **Contact Hours:** 2 per week

### ■ ARB564 ARCHITECTURAL INTERIOR SYSTEMS 2

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.

**Prerequisite:** ARB464  
**Credit Points:** 4 **Contact Hours:** 2 per week

### ■ ARB591 HISTORY OF ARCHITECTURE & ART 4

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. Planning of settlements, indigenous architecture, materials and techniques in building construction, social, cultural, economic, religious, and western influence. Modernisation, current architecture issues.

**Credit Points:** 4 **Contact Hours:** 1 per week

### ■ ARB593 DESIGN 8

Architectural criticism; main themes selected for design and the 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:** 20 **Contact Hours:** 5 per week

### ■ ARB595 PROFESSIONAL STUDIES 2

Building economics; practice management and accounting systems; legal aspects of practice, contracts; building procurement systems.

**Credit Points:** 16 **Contact Hours:** 4 per week

### ■ ARB597 ELECTIVE 1

Selected architectural topics including history, conservation, design theory, management, finance,

economics, architectural science, computing, urban design, and courses where approved.

**Credit Points:** 8 **Contact Hours:** 2 per week

### ■ ARB640 ARCHITECTURAL DESIGN 4

Theory: the building as object, surface, volume, space and sequence; expression of buildings; criteria of good design; design ethics and values. Studio: to develop ethics in design and to apply aesthetic theories in architectural projects. A series of architectural projects of low to medium use with emphasis on industry and commerce.

**Prerequisite:** ARB540  
**Credit Points:** 20 **Contact Hours:** 6 per week

### ■ ARB641 BUILDING CONSTRUCTION 4

Review the construction of non-domestic buildings of intermediate size. Each case study will discuss the system characteristics of the building type, the human and environmental factors which constrain the solution, and the associated building systems. Studio work will be complemented by field work.

**Prerequisite:** ARB541  
**Credit Points:** 14 **Contact Hours:** 6 per week

### ■ ARB642 DESIGN SCIENCE 4

Thermal performance of buildings; artificial lighting of interiors, lamp characteristics, colour rendering, modelling, lighting quality, simplified lighting design methods, and external lighting.

**Prerequisite:** ARB542  
**Credit Points:** 2 **Contact Hours:** 1 per week

### ■ ARB645 BUILDING SERVICES 2

Mechanical, electrical and hydraulic services. Hydraulics: water supply, plumbing, drainage; fire services; sprinklers, alarms, extinguishers, emergency systems; electricity: supply, substations, switchboards, metering, reticulation; vertical transportation: lifts, escalators, hoists.

**Prerequisite:** ARB545  
**Credit Points:** 4 **Contact Hours:** 2 per week

### ■ ARB646 LAW OF THE BUILT ENVIRONMENT

The law as a constraint in the design and construction process. 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

### ■ ARB650 INDUSTRIAL DESIGN 4

Design studio projects; there are usually two projects per semester and they are done in depth. The interdisciplinary expertise is included when appropriate. Most of the projects are industry based.

**Prerequisite:** ARB550  
**Credit Points:** 20 **Contact Hours:** 6 per week

### ■ ARB652 VISUAL COMMUNICATION FOR INDUSTRIAL DESIGNERS 4

Structure of professional presentation, with selection of appropriate visual communication media; advanced renderings and their application to product design concepts; professional portfolio organisation.

**Prerequisite:** ARB552  
**Credit Points:** 4 **Contact Hours:** 2 per week

### ■ ARB653 MANUFACTURING TECHNOLOGY 4

Organisation, planning the technologies required for CIM (Computer-integrated Manufacturing). The im-

part of CIM on product design solutions. Field studies complement the lecture series.

**Prerequisite:** ARB553

**Credit Points:** 14      **Contact Hours:** 5 per week

#### ■ ARB654 CAD FOR INDUSTRIAL DESIGNERS 4

Advanced 3D animation techniques; application of project management and evaluation techniques to design projects; 2 dimensional and 3 dimensional CAD used for the development of design concepts through to engineering drawings.

**Prerequisite:** ARB554

**Credit Points:** 6      **Contact Hours:** 2 per week

#### ■ ARB660 INTERIOR DESIGN 4

Students select and develop one complex design problem from brief stage to developed design studio stage. Theory studies will be cross-referenced to studio projects and exercises.

**Prerequisite:** ARB560

**Co-requisites:** ARB661, ARB663

**Credit Points:** 20      **Contact Hours:** 6 per week

#### ■ ARB661 INTERIOR TECHNOLOGY 4

The technological assessment of interiors, structure, openings, environmental systems, artefacts and ambience of existing spaces. Tendering, consultants, leasing and tenancy-building interface will be examined.

**Prerequisite:** ARB561

**Co-requisite:** ARB660

**Credit Points:** 16      **Contact Hours:** 6 per week

#### ■ ARB662 FURNITURE & FITTINGS 4

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.

**Prerequisite:** ARB562

**Credit Points:** 4      **Contact Hours:** 2 per week

#### ■ ARB663 RESEARCH METHODS

An overview of research methodology. Lectures will examine the difference between various research methods and products.

**Co-requisite:** ARB660

**Credit Points:** 4      **Contact Hours:** 2 per week

#### ■ ARB693 DESIGN 9

Theory: contemporary architects' theories and ideas, their influence in architectural design and practice. Projects: process of brief, functional and space programming; introduction to urban values, design principles and landscape-townscape, civic and formal planning; urban quality. A comprehensive project of groups of complex buildings as a design vehicle to develop planning skills; brief formation; building programming; quality evaluation; planning and presentation.

**Credit Points:** 16      **Contact Hours:** 5 per week

#### ■ ARB695 PROFESSIONAL STUDIES 3

Alternative methods of building procurement with particular emphasis on management of all phases of the building project. The Architect Act 1962 and amendments; Board of Architects Queensland Practice Examination.

**Credit Points:** 8

**Contact Hours:** 2 per week

#### ■ ARB697 ELECTIVE 2

Studies on approved topics to sufficient depth to demonstrate the student's ability to define and to

logically analyse proposition, and to conduct research to prove its validity.

**Credit Points:** Semester 1: 4 Semester 2: 20

**Contact Hours:** Semester 1: 2 per week. Semester 2: 5 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

Exploration of contemporary ideas, theories, methods; and the practical application of research, analysis, evaluation and the ultimate synthesis of ideas related to interiors. The emphasis is on user-oriented design. These ideas are applied in the studio.

**Credit Points:** 16

**Contact Hours:** 6 per week

#### ■ ARP503 WORKPLACE DESIGN

The issues of environmental communications; the physiological, psychological and sociological aspects of workplace interiors.

**Credit Points:** 18

**Contact Hours:** 6 per week

#### ■ ARP504 PROFESSIONAL PRACTICE & MANAGEMENT FOR INTERIOR DESIGNERS 1

The role and responsibilities of the interior designer in professional practice; job administration, liability, design protection, designer and client relationships; communication management and organisation of project.

**Credit Points:** 11

**Contact Hours:** 3 per week

#### ■ ARP505 PROFESSIONAL PRACTICE & MANAGEMENT FOR INTERIOR DESIGNERS 2

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:** 2 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, model-making, make-up design, lighting and camera work. This will be given through a series of lectures, visits and projects.

**Credit Points:** 13

**Contact Hours:** 6 per week

#### ■ ARP604 CONSERVATION OF HISTORIC INTERIORS

The ethics and the role of the designer in the conservation of interiors. An introduction to building technologies as required by a practising designer working on conservation and restoration projects.

**Credit Points:** 18

**Contact Hours:** 6 per week

### ■ ARP613 ADVANCED ERGONOMICS 1

Man-machine systems and their relations with living and working environments; 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 2

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

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

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

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

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 1

### ■ ARP673 INDUSTRIAL DESIGN 2

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      **Contact Hours:** 6 per week

### ■ ARP674 INDUSTRIAL DESIGN RESEARCH 1

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 2

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 1

CAD in the design process. 2 dimensional and 3 dimensional 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 2

CAD/CAM in the design, analysis and manufacturing process. 3 dimensional 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

### ■ AYB100 ACCOUNTING FOR MANAGERS

Accounting in the business world; fundamental accounting recording systems, preparation of financial statements for servicing and merchandising firms, examination of financial statements of partnership and limited companies; internal control of cash, inventories and non-current assets; analysis and interpretation of financial statements; introduction to managerial accounting, cost-volume-profit analysis, the nature of planning and control, and managerial decision making. (Note: incompatible with AYB104)

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ AYB101 COMPUTERISED ACCOUNTING SYSTEMS

Management information systems and accounting systems; database and files; data communication; systems development life cycle; analysis and design of accounting systems, including sales, accounts receivable, inventory, purchases, accounts payable, non-current assets, payroll and general ledger systems; accounting software (such as SYBIZ), database software (such as DBASE III PLUS) and spreadsheet software (such as LOTUS 1-2-3); internal control in computer systems.

**Prerequisite:** FNB102

**Credit Points:** 12      **Contact Hours:** 4 per week

### ■ AYB102 ACCOUNTING DISCLOSURE & AUDITING

This subject aims to extend the student's knowledge of financial accounting through the study of tax effect accounting; consolidations; acquisition of assets (no cross holdings) and company disclosure. It also introduces students to auditing through the study of an overview of auditing and audit reports; ethics, legal liability and audit objectives; overall audit plan and audit program involving; evidence and documentation, materiality and risk, internal controls and the



procedures for the audit of various applications – sales, purchases, etc. The effectiveness of accounting disclosure and auditing will then be examined.

**Prerequisite:** AYB111

**Credit Points:** 12      **Contact Hours:** 4 per week

### ■ AYB103 GOVERNMENT ACCOUNTING

The structure of government economic and fiscal activities; elements of government accounting; the concept of public accountability; fiscal federalism and theory of budgeting fund accounting; public accounting of Commonwealth, State and local Government levels; zero-based budgets and program budgets; budget strategies and financial decision making; project review; statutory corporations; quangos and committees; management information systems in government accounting; internal audit in government and efficiency audits; accounting for government business enterprises.

**Prerequisite:** AYB110

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ AYB104 PRINCIPLES OF ACCOUNTING

Accounting in the business world; fundamental accounting recording systems, preparation of financial statements for servicing and merchandising firms, examination of financial statements of partnership and limited companies; internal control of cash, inventories and non-current assets; analysis and interpretation of financial statements; introduction to managerial accounting, cost-volume-profit analysis, the nature of planning and control, and managerial decision making. (Note: Incompatible with AYB100)

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ AYB110 ACCOUNTING

Elements of financial statements; characteristics of financial information; recording and classifying transactions; end of period adjustments; financial statements for service and merchandising firms; accounting for cash, receivables, inventory and non-current assets.

**Credit Points:** 12      **Contact Hours:** 4 per week

### ■ AYB111 FINANCIAL ACCOUNTING

The procedures and principles relevant to both partnerships and companies for: formation, operations, reporting dissolution/liquidation, funds statements and analysis and interpretation of financial statements.

**Prerequisite:** AYB110

**Credit Points:** 12      **Contact Hours:** 4 per week

### ■ AYB112 COMPANY ACCOUNTING

Accounting for company income tax (tax-effect accounting); acquisition of assets (including companies); consolidated financial statements; equity accounting and disclosure in company financial statements.

**Prerequisite:** AYB111

**Credit Points:** 12      **Contact Hours:** 4 per week

### ■ AYB113 ACCOUNTING THEORY & APPLICATIONS

The evaluation of accounting theory; regulatory framework and theories of regulation; conceptual framework; theory of the firm developed into the contracting cost framework; profits: determination and disclosure, revenue and expense recognition; assets definition, recognition, measurement and classification; leases; foreign currency translations and transactions; intercorporate investments and joint ventures; politicisation of accounting.

**Prerequisite:** AYB112

**Credit Points:** 12      **Contact Hours:** 4 per week

### ■ AYB210 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:** AYB112

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ AYB211 AUDITING & PROFESSIONAL PRACTICE

Audit concepts and procedures; preparing a system-based audit plan; the nature and reasoning behind audit tests of balances; implementation of specified statistical sampling techniques.

**Prerequisite:** AYB210

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ AYB212 COMPUTER SECURITY & AUDIT

Impact of EDP on auditing, computerised accounting systems, general EDP controls, EDP application controls, generalised audit software (GAS), computer-assisted audit techniques, special EDP environments, fraud and privacy.

**Prerequisite:** AYB210

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ AYB213 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.

**Prerequisite:** AYB111

**Credit Points:** 12      **Contact Hours:** 4 per week

### ■ AYB217 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

### ■ AYN101 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

### ■ AYN102 ACCOUNTING RESEARCH

The research methodology used in the field of accounting and related disciplines; 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 build a theoretical model, to design an appropriate research methodology and to understand and utilise statistical analysis for accounting research purposes. This subject is a prerequisite for BSN100 Dissertation and should therefore normally be attempted immediately prior to enrolment in BSN100 Dissertation.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ AYN103 ADVANCED COMPANY ACCOUNTING

An overview of consolidated financial statements; changes in degree of ownership; reverse subsidiaries and reciprocal share holdings; consolidation and the existence of preference shares; translation and consolidation of foreign currency financial statements; consolidated summary of sources and applications of funds; accounting for joint ventures, extractive industries, construction contracts, leases; foreign currency transactions; segment reporting.

**Prerequisite:** AYN117

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ AYN104 AUDIT SAMPLING

Statistical sampling methods proposed for and employed in the performance of audits. Discussion centres on relevant statistical concepts rather than on unique computational issues. Topics include the audit sampling process, auditor decisions and risk error, attribute, variable and probability proportional-to-size sampling.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ AYN106 AUDITING HONOURS

The nature of auditing research and review of current research in such areas as: 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

### ■ AYN107 AUDITING STANDARDS & PRACTICE

An examination of relevant auditing standards and their implications for practice. Case studies develop an analytical approach and the ability to exercise professional judgement in audit problems. Recent journal articles, legal cases and newspaper reports are used in conjunction with the case.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ AYN109 COMPUTER AUDITING

The impact of EDP on controls and auditing; general EDP controls; EDP application controls, generalised audit software, static and concurrent computer-assisted audit techniques, special EDP environments and computer fraud.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ AYN111 EXTERNAL REPORTING ISSUES

Contemporary issues in external reporting; various practical accounting and reporting issues for: the extractive industries; long-term construction contracts; segments; foreign currency operations, translations and transactions; leasing; tax-effect accounting; goodwill and unidentifiable intangibles; intercorporate investments and joint ventures; liabilities and off-balance sheet financing, and funds/cash flow statements. Readings from the research and professional literature to enhance students' understanding of professional problems.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ AYN112 FINANCIAL ACCOUNTING 1

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 journals; 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

### ■ AYN113 FINANCIAL ACCOUNTING 2

Accounting function within a company. This subject covers accounting for company income tax (tax-effect accounting); liquidation; acquisition of assets (including companies); consolidated financial statements, equity accounting; disclosure in company financial statements.

**Prerequisite:** AYN112

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ AYN114 FINANCIAL ACCOUNTING 3

The evolution of accounting theory; profits: determination and disclosure; assets: definition, recognition; intangible assets; extractive industries; liabilities: definition, recognition, measurement and classification; leases; foreign operations; joint ventures.

**Prerequisite:** AYN113

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ AYN115 FINANCIAL ACCOUNTING HONOURS

The nature, methodology and development of accounting theory; incentive problems and contracting explanations for external financial reporting; accounting policy choice and the value of the firm; accounting and the political process.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ AYN117 FINANCIAL REPORTING

Conceptual framework; preparation and presentation of financial statements; analysis and interpretation of financial statements; accounting for income tax; valuation of companies; goodwill and acquisition of assets; equity accounting.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ AYN118 INTERNAL AUDITING

The techniques generally used by the internal or operational auditor; the need for efficiency or value-for-money auditing; performance auditing; the role of the internal auditor in large organisations both public and private.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ AYN119 INTERNATIONAL ACCOUNTING

An overview of issues related to international accounting and the international accounting standard setting process. Some of the issues examined include: the harmonisation of accounting; the environmental influences on international accounting; accounting principles and procedures in selected countries; foreign currency translation and transactions; transfer pricing and management accounting issues; internal and external audits worldwide; impact of multi-national enterprises; analysis of foreign financial statements.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ AYN300 ACCOUNTING 1 (PY)

An overview of consolidated financial statements; changes in degree of ownership; reverse subsidiaries and reciprocal share holdings; consolidation of foreign currency financial statements; consolidated summary of sources and applications of funds; accounting for joint ventures, extractive industries, construction contracts, leases; foreign currency transactions; segment reporting.

**Prerequisite:** AYN117

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ AYN301 AUDITING (PY)

Examination at an advanced level of auditing standards and their practical application, judgemental and statistical audit sampling EDP controls, and computer-assisted audit techniques.

**Prerequisite:** FNN300

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ AYN302 SPECIAL TOPIC – PUBLIC ACCOUNTING

A study of topical areas in the public accounting area.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ AYP100 ACCOUNTING PRINCIPLES 1

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

### ■ BNB103 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

### ■ BNT100 INDUSTRIAL EMPLOYMENT 1

### ■ BNT200 INDUSTRIAL EMPLOYMENT 2

### ■ BNT300 INDUSTRIAL EMPLOYMENT 3

### ■ BNT400 INDUSTRIAL EMPLOYMENT 4

### ■ BNT500 INDUSTRIAL EMPLOYMENT 5

### ■ BNT600 INDUSTRIAL EMPLOYMENT 6

### ■ BNT700 INDUSTRIAL EMPLOYMENT 7

### ■ BNT800 INDUSTRIAL EMPLOYMENT 8

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

### ■ BSB102 MANAGEMENT & ORGANISATION

An introduction to the theory, process and practice of management and organisations. Emphasis is placed on the importance of people in achieving organisational objectives and the need for participants in organisations to become more analytical and strategic in their approach to managing various organisations including those in both the public and private sector.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ BSB400 RESEARCH METHODOLOGY

This subject is designed to equip students with a range of ideas and methods which allow them to analyse, evaluate and conduct research in various discipline areas related to management. The subject is essential preparation for the thesis. Areas covered include science and knowledge – paradigms; analysis and criticism; research design; data collection; data manipulation and interpretation; presentation.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ BSB401 MANAGEMENT SEMINAR

Students develop in detail the research questions and approaches which they intend to examine or use in their thesis. Research proposals are presented and

evaluated in a seminar program. The subject involves: preliminary selection of thesis topic; selection of supervisor and agreement to supervise thesis; specific literature review; seminar on specific literature review; methods, approach and research design; seminar on methods, approach and research design; finalisation and approval of thesis topic.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ BSB402 ADVANCED READINGS PROGRAM

Examination in detail of advanced theory and issues from chosen disciplinary area. The object is to have students explore the breadth of their discipline in contrast to the more narrow focus of their thesis work. Students select advanced readings in their field and submit a comprehensive criticism and review. This work is carried out in consultation with the supervisor.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ BSN100 DISSERTATION

The dissertation should reflect the application of theoretical analysis or problem-solving in accounting, managerial accounting or finance, or accounting legal studies. Students are advised to seek a topic, and to approach the course coordinator early in their program. The dissertation topic proposal must be presented as a seminar to Faculty staff in the semester prior to enrolling in the dissertation.

**Prerequisite:** AYN102

**Credit Points:** 24

### ■ BSN116 THESIS/PROJECT

Students may complete a thesis or a project. A thesis is a scholarly work which provides an opportunity to combine an appropriate theory or perspective and appropriate research methodology to examine a significant communication problem or issue. Main text will not normally exceed 30,000 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

### ■ BSN130 CURRENT ISSUES IN AUSTRALIAN MANAGEMENT A

This subject runs concurrently with BSN131 to provide a review of the substantive disciplines within management and to highlight key issues in the current theory and practice of management. BSN130 covers an analysis of critical environmental changes. It focuses on changes in the economy including industrial relations and technological change outlining the key issues that are current in these areas.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ BSN131 CURRENT ISSUES IN AUSTRALIAN MANAGEMENT B

This subject runs concurrently with BSN130 to provide a review of the substantive disciplines within management and to highlight key issues in the current theory and practice of management. BSN131 focuses 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

### ■ BSN132 RESEARCH DESIGN & DATA ANALYSIS

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. Problems of logical inference, observation techniques, advanced data analysis techniques and the advantages and disadvantages of their use in different contexts.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ BSN133 CASE STUDY PROGRAM

Case studies in management; Australian case studies (for example from the Melbourne University Data Base) analysis of interdisciplinary problems, exploration of research problems and techniques of team-management and problem solving.

**Credit Points:** 12      **Contact Hours:** 4 per week

#### ■ BSN134 INITIAL PROJECT IN MANAGEMENT

An investigation by individuals or small groups of students into a managerially significant issue or problem. Students are expected to choose an area of investigation that connects with their final project (BSN136 and BSN137).

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ BSN135 APPLIED RESEARCH & DESIGN

Practical applications of research theory and analysis. Students are required to develop a research proposal of interest to them and related to each student's proposed research project (BSN136). The student conducts a preliminary or pilot study on a limited number of cases or areas of interest in the proposed research field and completes a research report justifying and assessing the chosen research methodology and demonstrating the research techniques to be used in the full study. Annotated comments on the report must also show awareness of different designs and statistical techniques that might have been used demonstrating a good grasp of elements covered in BSN132 and the earlier analyses of case study material in this course.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ BSN136 PROJECT & SEMINAR A

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 the choice of area. The Management Graduate Studies Board then nominates a supervisor for the research. Once the area of interest is chosen, the student is expected to relate to that specialisation in other courses for example in the Case Study Program, in initial Project in Management and in Applied Research Design. The project itself must demonstrate the student's ability to combine analytic and theoretical ability with an understanding of practical features.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ BSN137 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 the choice of area. The Management Graduate Studies Board then nominates a supervisor for the research. Once the area of interest is chosen, the student is expected to relate to that specialisation in other courses for example in the Case Study Program, in initial Project in Management and in Applied Research Design. The project itself must demonstrate the student's ability to combine analytic and theoretical ability with an understanding of practical features.

**Credit Points:** 24      **Contact Hours:** 3 per week

#### ■ BSP100 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 their chosen discipline. The dissertation is based on information from secondary sources and consists of a written report of approximately 10,000 words in length.

**Credit Points:** 24      **Contact Hours:** 3 per week

#### ■ BSP101 ADVANCED COMMUNICATION SEMINAR

Designed to prepare students for writing their Honours thesis. There is a component of directed research, which may include further course work and other work as directed by the supervisor; a component of group work devoted to thesis writing. Students are expected to complete a literature review of their research area, a thesis proposal, and give a seminar presentation.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ BSP102 COMMUNICATION SEMINAR

This subject is designed to prepare students for writing their Honours dissertation. There is a component of directed research, which may include further course work and other work as directed by the supervisor. In addition, the subject includes a component of group work devoted to dissertation writing. Students are expected to complete a literature review of their research area, a dissertation proposal and give a seminar presentation.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ BSP103 COMMUNICATION RESEARCH METHODOLOGIES

Foundation for understanding the empirical historical and critical/analytical research studies students read in the Honours degree and for conducting research for masters and doctoral theses. Theory and research methods: developing research models and hypotheses and reviewing basic research principles. Empirical methods: 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: multi-variate techniques (including table elaboration); evaluation research, historical and comparative research, ethical issues in research, exercises in scale construction; using SPSS-X for analysis of survey and experimental results. Historical and critical/analytical methods: applications of theory, primary and secondary sources, accessing pertinent data.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ CEB102 CIVIL ENGINEERING 1

An introduction to the profession of civil engineering, its scope and variety, and its many branches.

**Credit Points:** 2      **Contact Hours:** 1 per week

#### ■ CEB184 ENGINEERING MECHANICS 1

Introduction to statics, concept of forces, moments and couples; resolution and resultant of forces acting on a particle or rigid body; equilibrium of particle or rigid body under the action of forces and/or moments; analytical and graphical methods for plane truss analysis; shear force and bending moment in beams; the properties of sections.

**Credit Points:** 7      **Contact Hours:** 3 per week

## ■ CEB185 ENGINEERING MECHANICS 2

Fundamental principles of structural mechanics, stress, strain and elasticity; indeterminate structures and compatibility; simple beam theory including the flexure formula and the shear stress formula; torsion of circular sections; stresses in thin-walled pressure vessels; shear force and bending moment diagrams; hydrostatics.

**Co-requisites:** CEB184[R]

**Credit Points:** 7      **Contact Hours:** 3 per week

## ■ CEB192 INDUSTRIAL EXPERIENCE 1

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[R]

**Co-requisites:** CEB281[R], CEB282[R]

**Credit Points:** 7      **Contact Hours:** 3 per week

## ■ CEB202 CONCRETE STRUCTURES 1

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[R]

**Co-requisites:** CEB281[R], CEB282[R]

**Credit Points:** 6      **Contact Hours:** 3 per week

## ■ CEB220 CIVIL SYSTEMS 1

Computer applications in civil engineering science; hardware and software integration within the data logging environment will be discussed.

**Prerequisites:** CSB191[R], MAB193[R], CEB185[R]

**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 1

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[R]

**Credit Points:** 6      **Contact Hours:** 3 per week

## ■ CEB241 SOIL MECHANICS 2

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[R]

**Credit Points:** 7      **Contact Hours:** 3 per week

## ■ CEB253 STRUCTURAL ENGINEERING 1

The calculation of deflections for determinate beams, frames and trusses and the analysis of indeterminate structures by the method of superposition; and computer-based analytical procedures.

**Prerequisite:** CEB185[R]

**Co-requisites:** MAB493, CEB282[R],

**Credit Points:** 6      **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. The subject includes lectures, tutorials and practical work.

**Prerequisites:** CEB185[R], 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; composite beams; stress and strain transformations; combined loading; unsymmetrical bending; shear flow; shear centre; torsion; theories of failure; stress concentrations and fatigue.

**Prerequisite:** CEB185[R]

**Credit Points:** 6      **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[R]

**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 nonferrous metals and alloys, timber, bitumen, cladding materials, polymers, corrosion of materials and protective measures. Selection of materials. Role of quality control in engineering subjects.

**Prerequisites:** MEB171, MEB133

**Credit Points:** 7      **Contact Hours:** 3 per week

## ■ CEB292 INDUSTRIAL EXPERIENCE 2

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 1

Design project work involving the use of steel and reinforced concrete, geotechnical and highway designs; the influence of construction method to design will be emphasised; student will prepare design calculations and sketches with the help of design aids and computer software; the development

of problem solving skills will be emphasised throughout the projects.

**Prerequisites:** CEB201[R], CEB202[R], CEB240, CEB253, CEB220

**Co-requisites:** CEB354, CEB231, CEB312, CEB241  
**Credit Points:** 8      **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.

**Prerequisite:** CEB307[R]

**Credit Points:** 6      **Contact Hours:** 3 per week

### ■ CEB306 CONCRETE STRUCTURES 2

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, evaluation of deflections and design.

**Prerequisite:** CEB202[R]

**Credit Points:** 7      **Contact Hours:** 3 per week

### ■ CEB307 CONSTRUCTION PRACTICE

Basic procedures of civil engineering construction. This subject provides a foundation for further construction studies and also gives a practical perspective to later theoretical subjects.

**Prerequisites:** CEB231[R], CEB281[R]

**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[R], MAB193, CEB291[R]

**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

### ■ CEB354 STRUCTURAL ENGINEERING 2

The analysis of indeterminate structures using moment distribution and matrix structural analysis techniques. Analysis of simple cable structures.

**Prerequisites:** CEB253[R], MAB493

**Credit Points:** 7      **Contact Hours:** 3 per week

### ■ CEB355 STRUCTURAL ENGINEERING 3

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[R]

**Co-requisites:** MAB893, CEB354

**Credit Points:** 6      **Contact Hours:** 3 per week

### ■ CEB359 PRINCIPLES OF STRUCTURES 1

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:** 4

**Contact Hours:** 2 per week

### ■ CEB360 HYDRAULIC ENGINEERING 1

The applications of fluid mechanics to pipe and open channel flow, flow measurement and hydraulic machinery. Topics include: steady flow in pipes, networks, flow measurement, uniform flow in open channels, pump and turbines.

**Prerequisite:** CEB260[R]      **Co-requisite:** MAB493

**Credit Points:** 6      **Contact Hours:** 3 per week

### ■ CEB361 HYDROLOGY

An 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[R]      **Co-requisite:** CEB360

**Credit Points:** 6      **Contact Hours:** 3 per week

### ■ CEB364 ENGINEERING SCIENCE 2

An 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 1

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[R]

**Credit Points:** 6      **Contact Hours:** 3 per week

### ■ CEB392 INDUSTRIAL EXPERIENCE 3

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 1

The appropriate techniques of investigation and reporting on civil engineering processes.

**Prerequisite:** CMB108[R]

**Credit Points:** 3      **Contact Hours:** 2 per week

### ■ CEB401 DESIGN PROJECT

Students will work in groups to produce initial studies and outline designs of typical civil engineering projects. Students are required to define problems, establish goals for the project, identify and collect necessary information, generate alternative solutions and optimise some of these solutions. Students are to develop an awareness of the possible impact of civil engineering projects on ecosystems. Students will prepare and present reports on aspects of selected projects, including feasibility studies, environmental and economic assessment. Compulsory site visits will be included.

**Prerequisites:** CEB361[R], CEB305[R], CEB313[R]

**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. In addition students are given preparation in job applications and interview techniques.

**Prerequisite:** CEB191[R] **Co-requisite:** CEB305  
**Credit Points:** 7 **Contact Hours:** 2 per week

### ■ CEB404 FIELD TRIP

This subject involves site visits to several civil and structural projects (generally under construction in south east Queensland). The practical inspections are supervised by lecturing staff and engineers associated with the project, and allow valuable consolidation of the theoretical aspects of other subjects.

**Co-requisites:** CEB201, CEB202, CEB312, CEB360  
**Credit Points:** 3 **Contact Hours:** 1.5 per week

### ■ CEB405 CIVIL ENGINEERING DESIGN 2

Continuation of CEB304, with topics covering structural and civil engineering design, i.e. municipal civil/structural projects. Field visits are required. More general problem solving skills are to be developed so that graduates can successfully complete projects other than those covered during the course.

**Prerequisites:** CEB341, CEB304, CEB231[R]  
**Co-requisites:** CEB460, CEB470  
**Credit Points:** 6 **Contact Hours:** 3 per week

### ■ CEB406 STRUCTURAL APPLICATIONS

Analysis, design, supervision of construction and performance of structures. The subject will evolve around case studies. Topics include: structural systems, structure modelling, sketching, civil engineering structures, designing for construction, detailing and lessons from structural failures, timber structures and the role of testing, controlling vibrations in structures.

**Prerequisites:** CEB355, CEB291, CEB354[R]  
**Credit Points:** 8 **Contact Hours:** 3 per week

### ■ CEB422 CIVIL SYSTEMS 2

Civil engineering systems: understanding and applying advanced civil engineering software, methods of error checking and model validation. Experimental instrumentation and data logging. Financial systems: financial statements for civil engineering enterprises, measurement of assets and liabilities, depreciation rates, interpretation of published financial statements.

**Prerequisites:** CEB220[R], CEB241[R], CEB460[R], CEB355[R]  
**Credit Points:** 3 **Contact Hours:** 1 per week

### ■ CEB430 BUILDING CONSTRUCTION

Through lectures and tutorials this subject will provide a broad appreciation of building techniques and principles. The subject coverage will include details of building construction from footings to fitting out for low and high-rise structures including appropriate building regulations.

**Prerequisite:** CEB305[R]  
**Credit Points:** 3 **Contact Hours:** 2 per week

### ■ CEB459 PRINCIPLES OF STRUCTURES 2

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:** 4 **Contact Hours:** 2 per week

### ■ CEB460 HYDRAULIC ENGINEERING 2

Hydraulics with particular emphasis on unsteady flow, movable boundary hydraulics, hydraulic models and hydraulic design of structures. Topics include: steady flow compound open channels with variable roughness; unsteady flow in pipes; unsteady flow in open channel flow; design of hydraulic structures such as transitions, culverts, crests, chutes, etc. mobile boundary hydraulics; and the theory and practice relating to fixed and mobile boundary, natural scale and distorted models.

**Prerequisite:** CEB360[R]  
**Co-requisite:** CEB361[R]  
**Credit Points:** 7 **Contact Hours:** 3 per week

### ■ CEB470 PUBLIC HEALTH ENGINEERING 2

Development of principles taught in CEB370 to enable functional design of treatment units to be undertaken. An introduction to sewerage and water reticulation. On completion of this subject the student should be able to proceed to simple design exercises in water supply and sewerage and treatment processes.

**Prerequisite:** CEB370[R]  
**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 will include: 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.

**Prerequisites:** Student must normally be in final year of course, however students in the penultimate year of their course may be given special permission to attempt CEB491.

**Co-requisites:** CEB393, CEB492  
**Credit Points:** 9 **Contact Hours:** 3 per week

### ■ CEB492 ENGINEERING INVESTIGATION & REPORTING 2

Verbal and written presentation techniques of civil engineering investigation topics. Each student will be required to prepare a report and deliver a 1/2 hour lecture on a civil engineering investigation topic.

**Prerequisite:** CEB393[R]  
**Credit Points:** 3 **Contact Hours:** 1 per week

### ■ CEB501 CIVIL ENGINEERING PRACTICE 1

Lectures, tutorials, practical work and field trips covering current topics in a specified area of civil engineering at an advanced undergraduate level. Subject is offered irregularly. When offered the subject material will be advertised by the Head of School.

**Prerequisites:** Students must be substantially in the final year of their course.

**Credit Points:** 6 **Contact Hours:** 3 per week

### ■ CEB503 ADVANCED CONSTRUCTION METHODS

Examination of existing practice and technology in the construction industry and insights into current and future developments in construction techniques and plant.

**Prerequisites:** CEB307[R], CEB305[R]  
**Credit Points:** 5 **Contact Hours:** 3 per week

### ■ CEB504 ENGINEERING SCIENCE 3

Hydrology; rainfall, stream flow measurement; hydraulic design of drainage. Soil mechanics for sur-

veyors; 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 will be required to develop solutions to a variety of project management problems and to submit reports and make presentations regarding these exercises.

**Prerequisite:** CEB305[R]

**Credit Points:** 6      **Contact Hours:** 3 per week

### ■ CEB506 CIVIL ENGINEERING PRACTICE 2

Lectures, tutorials, practical work and field trips covering current topics in a specified area of civil engineering at an advanced undergraduate level. Subject is offered irregularly. When offered the subject material will be advertised by the Head of School.

**Prerequisites:** Students must be substantially in the final year of their course.

**Credit Points:** 6      **Contact Hours:** 3 per week

### ■ CEB511 TRANSPORT ENGINEERING 2

A series of lectures and practical work focussing in depth on two aspects of transport engineering, rural road upgrading and small urban area transportation planning and road needs requirements. Work covered includes highway upgrading, deficiency analysis, traffic accident analysis, traffic flow simulation, staged development including overtaking lanes and rural intersection design; application of four step transportation planning models, surveys, zone selection, network development, trip generation, distribution, 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 1

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.

**Prerequisite:** CEB313[R]

**Credit Points:** 6      **Contact Hours:** 3 per week

### ■ CEB520 FINITE ELEMENT METHODS

Finite element, finite difference and similar numerical techniques. Theoretical and modelling considerations are covered in the context of case studies in structures, soil mechanics and hydraulics.

**Prerequisite:** CEB220[R]

**Credit Points:** 6      **Contact Hours:** 3 per week

### ■ CEB531 MASONRY DESIGN

Working stress design. Assumptions, derivation of design formulae for beams, walls and columns with clay and concrete masonry. Masonry materials. Physical properties of masonry materials. Lectures, practical work and field visits covering the above topic.

**Prerequisites:** CEB355[R], CEB306[R]

**Co-requisite:** CEB291

**Credit Points:** 6      **Contact Hours:** 3 per week

### ■ CEB541 GEOTECHNICAL ENGINEERING 2

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:** CEB341[R]

**Credit Points:** 6      **Contact Hours:** 3 per week

### ■ CEB542 GEOTECHNICAL ENGINEERING 3

Development of marginal lands; trafficability; embankments on soft soil; preloading; vertical drainage; vibroflotation; dynamic compaction and other methods of deep foundation improvement. Rock excavation and rock slope stabilisation. Soil improvement, including mechanical and chemical stabilisation, soil reinforcement and other techniques which may be economically feasible. Anchoring in soil and rock. Principles of earth and rockfill design and construction.

**Prerequisite:** CEB341[R]

**Credit Points:** 6      **Contact Hours:** 3 per week

### ■ CEB551 ADVANCED STRUCTURAL DESIGN

This subject will widen and deepen the experience of undergraduates in the structural design area. Emphasis is placed on the design of more complex structures. Normally three projects will be studied which will involve some or all of: design in new materials, new analytical techniques, new codes of practice, novel structures.

**Prerequisites:** CEB354[R], CEB201[R], CEB306

**Co-requisite:** CEB405

**Credit Points:** 6      **Contact Hours:** 3 per week

### ■ CEB559 PRINCIPLES OF STRUCTURES 3

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[R]

**Credit Points:** 4      **Contact Hours:** 2 per week

### ■ CEB560 HYDRAULIC ENGINEERING 3

Lectures, tutorial, practical work and site visits examining selected topics in water engineering. Topics will be chosen from hydrology, mobile bed hydraulics, river hydraulics, hydraulic structures, urban drainage, physical and mathematical modelling.

**Prerequisites:** CEB361[R], CEB460[R]

**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, canal systems; planning and design of coastal structures; hydraulic models for coastal studies. At least one major site visit will be required.

**Prerequisite:** CEB360[R]      **Co-requisite:** CEB460

**Credit Points:** 6      **Contact Hours:** 3 per week

### ■ CEB570 PUBLIC HEALTH ENGINEERING 3

Basic solid waste management (of domestic, commercial and industrial wastes); the general principles of industrial liquid waste management, with examples of some important industries. Students completing this subject will have gained a basic understanding of solid and industrial liquid waste management.

**Co-requisite:** CEB470[R]

**Credit Points:** 6      **Contact Hours:** 3 per week



#### ■ CEB659 PRINCIPLES OF STRUCTURES 4

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 1

Introduction to the measurement of civil engineering works based on the study of SMM of Civil Engineering Quantities. Detailed study of construction methods, plant, specification and measurement of: earthworks, (clearing, compaction and dredging); roadworks, (survey, bulk excavation and filling, pavement construction, kerbing, culverts); and bridges, (types of structures, foundations, prestressed concrete). It includes a brief introduction to computer applications such as earthwork calculations, etc.

**Credit Points:** 4      **Contact Hours:** 2 per week

#### ■ CEB801 CIVIL ENGINEERING QUANTITIES 2

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); specialised earthworks, (tunnelling, dredging, open cuts, earthworks, earth dams).

**Prerequisite:** CEB701[R]

**Credit Points:** 3      **Contact Hours:** 1.5 per week

#### ■ CEP107 CONSTRUCTION MANAGEMENT & ECONOMICS

The management of operational features of engineering practice. Topics include engineering economics, contracts, plant and labour considerations of concern to the 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 including the powers and responsibilities of the municipal engineer are covered.

**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

#### ■ CEPI72 WATER QUALITY ENGINEERING

Characteristics of liquid wastes. Their effect on receiving waters. Dispersion and decay of pollutants in the water environment. Water quality standards and objectives.

**Credit Points:** 8      **Contact Hours:** 2 per week

#### ■ CEP174 PUBLIC HEALTH ENGINEERING PRACTICE

Water supply network analysis, water sources, reservoirs, pumps, water hammer, sewerage systems, pump stations, corrosion, water quality, water and wastewater treatment, laboratory demonstrations, field trip.

**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 analytical and 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[R]

**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

#### ■ CEP290 ENVIRONMENTAL LAW & ASSESSMENT

Introduction to environmental law. Commonwealth and State legislation. Development controls. Trends in environmental control. The framework for environmental assessment. Description of the environmental setting. Impact assessment and analysis.

**Credit Points:** 8      **Contact Hours:** 2 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. Subject covers rainfall and runoff models, both rational and computer models; drainage hydraulics of roof, streets, pipes, open channels, retention basins, culverts and bridges; erosion, sedimentation aspects of drainage, costs, planning policies and the law.

**Credit Points:** 8      **Contact Hours:** 2 per week

### ■ CEP998 PROJECT B

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.

**Credit Points:** 20      **Contact Hours:** 5 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 will be presented in a major formal report.

**Credit Points:** 36      **Contact Hours:** 4 per week

### ■ CET120 CIVIL SYSTEMS 1

Introduction to civil engineering applications of computers. Hardware and operating systems. Word processors, spread sheets and data bases as used in civil engineering offices. 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 students 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. Study of 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 1

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, and shear in beams and shafts. Combined stress conditions. Deflections in beams and trusses.

**Prerequisite:** CET135[R]

**Credit Points:** 7      **Contact Hours:** 3 per week

### ■ CET286 CIVIL OFFICE PRACTICE

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, additional to that undertaken in CET286 Civil Office Practice.

**Prerequisite:** MET120

**Co-requisite:** CET286

**Credit Points:** 3      **Contact Hours:** 3 per week

### ■ CET306 FIELD PRACTICE 1A

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[R], CET365[R]

**Co-requisites:** 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, hydraulic measurements. Laboratory work on basic fluid behaviour and instrumentation.

**Prerequisite:** CET135[R]

**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 Civil Engineering Drafting.

**Prerequisite:** CET286[R]

**Co-requisite:** CET585

**Credit Points:** 3      **Contact Hours:** 3 per week

### ■ CET405 FIELD PRACTICE 2A

This subject will involve field visits and laboratory workshops on many aspects of civil engineering construction.

**Credit Points:** 3      **Contact Hours:** 3 per week

### ■ CET420 CIVIL SYSTEMS 2

Further study of civil engineering office applications of computing. File management, error recovery, net-

working, pre and post processing in a CAD environment. Software installation and data acquisition.

**Prerequisite:** CET120[R]

**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

Undertake a substantial project in the student's chosen field. Involves the investigation of the topic, performance of the tests, design calculations, drawings, etc. and submission of a comprehensive report.

**Prerequisites:** 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[R], CET645[R], CET365[R]  
**Credit Points:** 7      **Contact Hours:** 3 per week

### ■ CET585 CIVIL ENGINEERING DRAFTING

Preparation of municipal engineering drawings including roadworks and stormwater drainage. State and local authority standards. Projects involve varying amounts of design computations and at least one example will involve computer usage. Introduction to quantity take-off, bills of quantities, cost estimates and cross referencing between drawings, bills of quantities and specifications.

**Prerequisite:** CET286[R]      **Co-requisite:** CET565  
**Credit Points:** 7      **Contact Hours:** 3 per week

### ■ CET598 PROJECT 2

An individually designed program including designs, reports and investigations in the area of sanitary engineering.

**Prerequisites:** 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 insitu sampling and testing.

**Prerequisite:** CET135[R]

**Credit Points:** 7      **Contact Hours:** 3 per week

### ■ CET703 CIVIL ENGINEERING PRACTICE 1

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.

**Prerequisites:** Student 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, de-watering, excavation and earthworks, plant; introduction to the Construction Safety Act and Regulations.

**Credit Points:** 7      **Contact Hours:** 3 per week

### ■ CET707 MUNICIPAL ENGINEERING

Structures and function of local authorities, legislation, municipal road and street construction, design offices, traffic management, parking, town planning and subdivision, solid waste management, building practice, other municipal engineering aspects, field trip.

**Prerequisite:** CET815[R]

**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

### ■ CET735 ADVANCED LABORATORY TESTING 1

Testing work to give experiences with a range of equipment and testing procedures. Includes tests in a number of selected laboratory areas.

**Credit Points:** 7      **Contact Hours:** 3 per week

### ■ CET756 BUILDING CONSTRUCTION PRACTICE

Practical aspects associated with reinforced, prestressed concrete (insitu and precast). Steel construction, aspects of fabrication and erection. Clay brick and concrete masonry construction including cladding. Overview of building regulations.

**Prerequisite:** CET190[R]

**Credit Points:** 7      **Contact Hours:** 3 per week

### ■ CET775 PUBLIC HEALTH ENGINEERING

Water supply and sewerage systems, water sources, demand, water and wastewater treatment, water quality, treatment plants, swimming pools, laboratory analysis and field visits.

**Prerequisite:** CET365[R]

**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[R], CHA140[R]

**Credit Points:** 7      **Contact Hours:** 3 per week

### ■ CET777 PROCESS OPERATION & CONTROL 1

Principles of unit processes of water and wastewater treatment, with particular reference to their operation. The methods of operational control of these processes.

**Prerequisites:** CET365[R], CET775[R], CHA140[R]

**Credit Points:** 7      **Contact Hours:** 3 per week

### ■ CET797 PROJECT 1

Undertake a substantial project in the student's chosen field. Involves the investigation of the topic, performance of tests, design calculations, drawings, etc. and submission of comprehensive report.

**Prerequisites:** Student must have completed 72 credit points.

**Credit Points:** 7      **Contact Hours:** 3 per week

### ■ CET802 CIVIL ENGINEERING PRACTICE 2

See CET703.

**Prerequisites:** 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.

**Credit Points:** 7      **Contact Hours:** 3 per week

### ■ CET838 ADVANCED LABORATORY TESTING 2

Testing projects undertaken in specialist areas and presented as a series of major reports. Each report will be expected to include a discussion of the tests undertaken and the results obtained.

**Credit Points:** 7      **Contact Hours:** 3 per week

### ■ CET856 ADVANCED CONSTRUCTION TECHNIQUES

Builds on CET606. History of construction; planning and programming including critical path analysis and resource levelling; contracts; crane selection and safety; case studies; detailed and 'fast' estimating techniques.

**Prerequisite:** CET606[R]

**Credit Points:** 7      **Contact Hours:** 3 per week

### ■ CET876 PLANT OPERATION & MAINTENANCE

Operation and maintenance requirements of water quality treatment plants; scheduling, labour control, workshop organisation, safety, training and performance monitoring.

**Prerequisite:** CET606[R]      **Co-requisite:** CET776

**Credit Points:** 7      **Contact Hours:** 3 per week

### ■ CET877 PROCESS OPERATION & CONTROL 2

Extends CET777. Unit processes of water and wastewater treatment with particular reference to their operation. The methods of operational control of these processes.

**Prerequisite:** CET777[R]

**Credit Points:** 7      **Contact Hours:** 3 per week

### ■ CET888 STRUCTURAL DRAWING & DESIGN

Minor structural design and layout will be undertaken. 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 1

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 are also covered.

**Prerequisite:** CHA111

**Credit Points:** 6      **Contact Hours:** 3 per week

### ■ CHA230 CHEMISTRY OF INORGANIC MATERIALS

An extension of the basic atomic and molecular theory introduced in CHA145 to include atomic orbitals, orbital shapes and quantum numbers; radioactive breakdown and applications; banding, molecular orbitals; hybridisation, shapes of simple molecules relating to their properties; simple coordination chemistry. 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 methods.

**Prerequisite:** CHA111

**Credit Points:** 8      **Contact Hours:** 3 per week

### ■ CHA250 ORGANIC CHEMISTRY 1

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 1

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 CHA240.

**Prerequisite:** CHA218, CHA240

**Co-requisite:** CHA319

**Credit Points:** 8      **Contact Hours:** 4 per week

### ■ CHA319 ANALYTICAL CHEMISTRY 2

A course of lectures and practical work designed to develop further the basic titrimetric and gravimetric analysis principles introduced in 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 1

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 2

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 2

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 2

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 3

This subject gives 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 1

The basic chemical components of food, fats and oils, proteins, carbohydrates, vitamins and minerals; 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, oils and sugar products.

**Prerequisites:** CHA318, CHA319

**Credit Points:** 8      **Contact Hours:** 3 per week

### ■ CHA644 PROCESS MEASUREMENT & MONITORING 1

A study of the physical and chemical measurements involved in: the analysis of raw and potable waters; and the determination of organic and microbiological pollution. Emphasis is placed on sampling and sample preservation laboratory techniques, interpretation of results and the significance of the measured parameters in the operation and control of water and wastewater treatment plants.

**Prerequisites:** CET365, CET775

**Co-requisite:** CHA140

**Credit Points:** 7      **Contact Hours:** 3 per week

### ■ CHA670 PHYSICAL CHEMISTRY 3

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 2

A more advanced subject covering the chemistry and principal methods of food processing and preparation. A further major assignment appropriate to the dairy industry is incorporated.

**Prerequisite:** CHA580

**Credit Points:** 8 **Contact Hours:** 3 per week

### ■ CHA744 PROCESS MEASUREMENT & MONITORING 2

The physical and chemical measurements involved in: the determination of inorganic and other selected pollutants; the analysis of sewage and other sludges; and the testing of sewage effluents together with an introduction to specialised analytical techniques including atomic absorption spectrophotometry, chromatography and polarography. Emphasis is placed on sampling and sample preservation laboratory techniques, interpretation of results and the significance of the measured parameters in the operation and control of water and wastewater treatment plants.

**Prerequisite:** CHA644

**Credit Points:** 7 **Contact Hours:** 3 per week

### ■ CHA844 TRADE WASTE CONTROL

A study of industrial wastes with respect to typical waste characteristics, effects on natural waters, sewers and treatment plants, methods of inhouse treatment and their achievable effluent levels, monitoring techniques, legislation and charging procedures.

**Prerequisites:** CET777, CHA744

**Credit Points:** 7 **Contact Hours:** 3 per week

### ■ CHB001 INTRODUCTORY CHEMISTRY

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

### ■ CHB142 CHEMISTRY 1

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 CHB182

**Credit Points:** 12 **Contact Hours:** 6 per week

### ■ CHB173 CHEMISTRY 1A

States of matter: gases, liquids, solids; kinetic theory of gases, real gases; thermodynamics: forms of energy, work and heat; thermochemistry, enthalpies of formation, combination, etc. thermochemical calculations; entropy, force energy, spontaneity of reactions; equilibria: equilibrium constants, homogeneous and heterogeneous equilibria; ionic equilibria – acids and bases, pH, buffer solutions, acid-base titrations; kinetics: rates of chemical processes, dependence of rate on concentration, order of reaction, integrated rate equations; experimental methods; temperature dependence of rate constant; catalysis; conductance: introduction to electrochemistry; bonding theory and foundations of spectroscopy: quantum theory, classical mechanics; the dynamics of microscopic systems, Schrodinger equation, translational, rotational and vibrational motions; atomic spectra and structure, quantum numbers and orbitals, electron spin.

**Prerequisites:** CHB001

**Credit Points:** 12 **Contact Hours:** 6 per week

### ■ CHB182 CHEMISTRY 1

Chemical stoichiometry; thermochemistry; atomic structure; chemical bonding; chemical reactions; carbon compounds; states of matter; chemical equilibrium; acids and bases; ions and ionic equilibria.

**Prerequisite:** Year 12 Chemistry – Sound achievement.

**Credit Points:** 12 **Contact Hours:** 5 per week

### ■ CHB183 CHEMISTRY 1B

Fundamental studies in two of the three sub-discipline areas of chemistry – inorganic chemistry and organic chemistry; the periodic table; acid, bases and salts; chemical reactions and stoichiometry; chemistry of hydrogen; chemistry of oxygen; principles of bonding in compounds of carbon; structural and electrical effects in compounds of carbon; chemical reactivity of organic molecules; radical reactions of organic hydrocarbons; mechanism and industrial significance, halocarbons and industrial solvents; addition reactions of alkenes, mechanism and industrial significance, polymers and plastics.

**Prerequisites:** Sound achievement in Senior Chemistry or Co-requisite CHB001

**Credit Points:** 12 **Contact Hours:** 6 per week

### ■ CHB242 CHEMISTRY 2

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. (Note: This subject is not compatible with CHB281; credit may not be retained for more than one of these subjects.)

**Prerequisite:** CHB142

**Credit Points:** 12 **Contact Hours:** 6 per week

### ■ CHB253 CHEMISTRY 2B

This subject builds on the fundamental concepts studied in Chemistry 1B and develops a knowledge of organic mechanism as a tool for understanding the nature of organic chemical change; the use of modern spectroscopic techniques as an aid to structure elucidation.

**Prerequisite:** CHB183

**Credit Points:** 12      **Contact Hours:** 5 per week

### ■ CHB259 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:** 12      **Contact Hours:** 5 per week

### ■ CHB282 CHEMISTRY 2

Atomic structure; chemical bonding; thermodynamics; oxidation and reduction; electrochemistry; coordination chemistry; metals, metallurgy, transition elements; silicon, silicates, semiconductors; stereochemistry and optical activity; alcohols, phenols, ethers, amines; aldehydes and ketones, carboxylic acids and functional derivatives of carboxylic acids; infrared spectroscopy.

**Prerequisite:** CHB182

**Credit Points:** 12      **Contact Hours:** 5 per week

### ■ CHB283 CHEMISTRY 2A

Continuation of the fundamental studies already commenced in two of the three sub-discipline areas of chemistry. Thermodynamics; surface chemistry; equilibrium electrochemistry; liquids and solutions; the Phase Rule. Chemistry of non metals; chemistry of metals; coordination chemistry; nuclear chemistry.

**Prerequisites:** MAB212, PHB122, CHB173 and CHB183

**Credit Points:** 12      **Contact Hours:** 5 per week

### ■ CHB292 APPLIED SCIENCE FOR DESIGNERS 2

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

### ■ CHB313 ANALYTICAL CHEMISTRY 3

Analytical techniques including volumetric glassware, basic laboratory equipment, laboratory balances (top-pan and analytical), sampling, sample dissolution principles; neutralimetry; redoximetry; precipitometry; compleximetry; gravimetry; treatment of results; instrumental methods.

**Prerequisites:** CHB283, CHB253 or CHB282

**Credit Points:** 12      **Contact Hours:** 5 per week

### ■ CHB333 INORGANIC CHEMISTRY 3

Coordination chemistry; bonding and structure of metal complexes including crystal field theory and valence bond theory; an introduction to group theory; spectroscopic terms; solution chemistry – the structure of water; aqueous solutions; inorganic properties of water; distribution diagrams; hydrolysis; EH/pH diagrams; bioinorganic chemistry – biological significance of ligands and metals; HSAB theory; complex equilibria; applications with examples of selected bioinorganic systems – proteins, haem, etc.; chemistry of lanthanides and actinides; chemistry of selected non-metals; chemistry of precious metals.

**Prerequisite:** CHB283 or CHB282

**Credit Points:** 12      **Contact Hours:** 5 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

### ■ CHB352 ORGANIC CHEMISTRY 3

Fundamentals of organic reactions; major mechanistic classes, nucleophilic substitution, elimination, electrophilic addition, nucleophilic addition, electrophilic substitution; ultraviolet spectroscopy – electronic transitions, chromophores, bathochromic and hypsochromic shifts, sampling; infrared spectroscopy – classification of vibrations, effects of molecular association, conjugation, cumulation, a-halogens, ring and steric strain. Sampling; nuclear magnetic resonance – basic principles, classification of nuclei, the shielding constant. 1H spectra, areas and integrals, chemical shifts and coupling. Sampling.

**Prerequisite:** CHB282

**Credit Points:** 12      **Contact Hours:** 5 per week

### ■ CHB353 ORGANIC CHEMISTRY 3A

The chemistry of carboxylic acids and their functional derivatives, carbanion chemistry including aldol and Claisen condensations; optical and geometrical isomers, stereochemical formulae, the sequence rules and nomenclature, the polarimeter and specific rotation; conformation of ethane, butane, small rings, cyclohexane and substituted cyclohexanes; ultraviolet spectroscopy; infrared spectroscopy; nuclear magnetic resonance.

**Prerequisites:** CHB183, CHB283

**Credit Points:** 12      **Contact Hours:** 5 per week

### ■ CHB372 CHEMISTRY 3

Equilibrium electrochemistry: models of the electrified interface, absolute electrode potential. Ionic absorption, electrocapillary curves, surface excess, molecular adsorption; phase rule: derivation of phase rule, applications to one component, binary, condensed and ternary systems; thermodynamics: second and third laws; free energy and chemical equilibrium ideal systems; chemical kinetics: order and molecularity of reactions, temperature effects. Reaction rate theories, complex reactions; bonding theory: orbitals and energies of the hydrogen atom; many electron atoms, molecular orbitals; spectroscopy: interaction of radiation with matter. Principles, instrumental design and applications of rotational, vibrational and electronic spectroscopy.

**Prerequisite:** CHB282 or CHB283

**Credit Points:** 12      **Contact Hours:** 5 per week

### ■ CHB373 PHYSICAL CHEMISTRY 3A

Equilibrium electrochemistry; applied phase chemistry; applied thermodynamics – 2nd and 3rd laws; kinetics – complex reactions, mechanisms; spectroscopy – interaction of radiation with matter.

**Prerequisite:** CHB283 or CHB282

**Credit Points:** 12      **Contact Hours:** 5 per week

### ■ CHB382 CHEMISTRY 3

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. (Note: This subject is not compatible with a major in Chemistry or CHB310.)

**Prerequisites:** CHB102, CHB201, CHB202

**Credit Points:** 8      **Contact Hours:** 4 per week

### ■ CHB423 CHEMICAL TECHNOLOGY 4

The chemical industry; process flowsheets; sources and interpretation of data; industrial stoichiometry; material and energy balance calculations for both principles of particle mechanics and their applications in solids handling, crushing and grinding; classification; and solid-liquid separation operations; solid-liquid contacting operations; principles of fluid mechanics and their applications in storage, transport, mixing and dispersing operations; liquid-liquid extraction operations.

**Prerequisites:** PHB122, (CHB373 or CHB372)

**Credit Points:** 12      **Contact Hours:** 5 per week

### ■ CHB453 ORGANIC CHEMISTRY 4

A critical analysis of the chemistry of five- and six-membered heterocyclic systems with a single hetero atom; preparation, stability and applications to organo synthesis of the main group organometallic compounds; rearrangement reactions which involve 1, 2-shifts to electron-deficient elements; principles and practice of thin-layer chromatography, gas-liquid chromatography and high-performance liquid chromatography in the separation and analysis of a variety of organic compounds.

**Prerequisite:** CHB372 or CHB352

**Credit Points:** 12      **Contact Hours:** 5 per week

### ■ CHB473 PHYSICAL CHEMISTRY 4

Thermodynamics; surface chemistry; dynamic electrochemistry; chemical kinetics.

**Prerequisite:** CHB373 or CHB372

**Credit Points:** 12      **Contact Hours:** 5 per week

### ■ 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. (Note: This subject is not compatible with CHB641; credit may not be retained for both.)

**Prerequisites:** CHB310, CHB340, CHB440, CHB351

**Credit Points:** 8      **Contact Hours:** 4 per week

### ■ CHB513 INSTRUMENTAL ANALYSIS 5

Quality assurance, data analysis, trace analysis, methods reliability, accuracy, precision, sensitivity, selectivity, limit of detection, comparative studies; atomic spectroscopy, theory and instrumentation; mass spectrometry, introductory theory and in-

strumentation; liquid chromatography, ion chromatography, practices and principles.

**Prerequisites:** CHB313, CHB372 and CHB453

**Credit Points:** 12      **Contact Hours:** 5 per week

### ■ CHB523 CHEMICAL TECHNOLOGY 5

Principles of heat transfer and their applications in heat exchange and evaporation operations; distillation; principles of mass transfer and their applications in gas absorption psychrometric, drying and membrane operations; sources of chemicals, petrochemical processes, hydrogen economy; chemical engineering process analysis and its applications to selected industrial processes; topics include: equilibrium thermodynamics and kinetics, ideal reactors, reactor design.

**Prerequisites:** CHB473, CHB423

**Credit Points:** 12      **Contact Hours:** 5 per week

### ■ CHB527 CHEMICAL TECHNOLOGY 5

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 5

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

### ■ CHB533 INORGANIC CHEMISTRY 5

Chemistry of selected metalloids; introduction to organometallic chemistry; inorganic reaction mechanisms; special interest metals; development of principles of group theory; symmetry operations and inorganic IR spectra; UV-visible spectra; bioinorganic chemistry of special molecules; lasers and inorganic chemistry.

**Prerequisite:** CHB333

**Credit Points:** 12      **Contact Hours:** 5 per week

### ■ CHB550 ORGANIC CHEMISTRY 5

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 structure activity relationships. (Note: This subject is not compatible with CHB551; credit may not be retained for both.)

**Prerequisite:** CHB350, CHB450

**Credit Points:** 8      **Contact Hours:** 4 per week

### ■ CHB551 ORGANIC CHEMISTRY 5C

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. (Note: This subject is not compatible with CHB550; credit may not be retained for both.)

**Prerequisite:** CHB451

**Credit Points:** 8      **Contact Hours:** 3 per week



### ■ CHB570 PHYSICAL CHEMISTRY 5

Solid-liquid equilibria, ternary eutectics and industrial phase chemistry; equilibrium and dynamic electrochemistry and corrosion; kinetics of chain reactions. (Note: This subject is not compatible with CHB571; credit may not be retained for both.)

**Prerequisites:** CHB371, CHB470

**Credit Points:** 8      **Contact Hours:** 4 per week

### ■ CHB571 PHYSICAL CHEMISTRY 5C

Solid-liquid equilibria, ternary eutectics and industrial phase chemistry; equilibrium and dynamic electrochemistry; kinetics of chain reactions. (Note: This subject is not compatible with CHB570; credit may not be retained for both.)

**Prerequisites:** CHB371, CHB471

**Credit Points:** 8      **Contact Hours:** 3 per week

### ■ CHB573 PHYSICAL CHEMISTRY 5

Kinetics; colloid chemistry; phase equilibria; quantum mechanics; statistical mechanics.

**Prerequisite:** CHB473

**Credit Points:** 12      **Contact Hours:** 5 per week

### ■ 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 CH32 – CHB510 or CHB527 and two of CHB530, CHB550 and CHB570 or, for SC30 – two of CHB530, CHB551 and CHB571

**Credit Points:** 20      **Contact Hours:** 10 per week

### ■ CHB603 PROJECT

The material content of this subject is a variety of chemical problems reflecting teaching, research and consultancy interests of the staff.

**Prerequisites:** One of CHB573, CHB553 or CHB533 + CHB513 or CHB523

**Credit Points:** 12

### ■ 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

### ■ CHB613 INSTRUMENTAL ANALYSIS 6

Instrumental analysis including the principles and practices of XRF, thermal analysis, electrometric

methods including voltammetry, amperometry; data acquisition, methods of automated analysis, flow-based analysers, robotics, computer networks, laboratory information management systems, chemical databases; chemometrics, optimisation techniques, multiple regressions, advanced quality assurance, inter-laboratory comparisons; computer interfacing, microprocessor controlled instruments, A/D, D/A converters, I/O methods including polling, interrupt techniques, direct memory access.

**Prerequisite:** CHB513

**Credit Points:** 12      **Contact Hours:** 5 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

### ■ CHB623 CHEMICAL TECHNOLOGY 6

Economic concepts, engineering costing, profitability evaluation, investment decision making, process economic appraisal using network analysis, optimisation using linear, non-linear, and dynamic programming. Introduction to steady-state process analysis, simulation and design, with the aid of ASPEN software system; modelling process flowsheets and chemical reactors; case study problem solving using ASPEN.

**Prerequisite:** CHB523

**Credit Points:** 12      **Contact Hours:** 5 per week

### ■ CHB627 CHEMICAL TECHNOLOGY 6

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 6

Celloid chemistry and rheology; Fourier transform, laser and time resolved spectroscopy; interpretative <sup>13</sup>C NMR spectroscopy; free radical and photo-

chemistry and the organic chemistry of sulphur and phosphorus compounds. (Note: This subject is not compatible with CHB641, CHB671; credit may not be retained for more than one of these subjects.)

**Prerequisites:** CHB450, CHB470, CHB550, CHB570  
**Credit Points:** 4      **Contact Hours:** 2 per week

#### ■ 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 <sup>13</sup>C and multi-nuclei NMR. The role of dedicated computers in these techniques will be emphasised. (Note: This subject is not compatible with CHB510, CHB640; credit may not be retained for more than one of these subjects.)

**Prerequisite:** CHB340  
**Credit Points:** 8      **Contact Hours:** 3 per week

#### ■ CHB643 APPLIED SPECTROSCOPY

Nuclear magnetic resonance spectroscopy; vibrational spectroscopy; remote spectroscopy; Uv/vis and fluorescence spectroscopies.

**Prerequisites:** CHB373 or CHB372 + (CHB353 or CHB352)

**Credit Points:** 12      **Contact Hours:** 5 per week

#### ■ 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

#### ■ CHB653 APPLIED BIOLOGICAL CHEMISTRY

Overview of molecular cell biology and chemistry; basic physical biochemistry of proteins and cells; chemistry of amino acids, peptides and proteins; conformation, structure, reactivity of peptides, proteins and enzymes; protein engineering; enzyme reaction mechanisms; bioinorganic chemistry including structural, spectroscopic, and functional properties of metallo-proteins; catalytic roles in metallo-biochemistry; bioenergetics, biosynthesis and biotransformation.

**Prerequisite:** CHB553  
**Credit Points:** 12      **Contact Hours:** 5 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

#### ■ CHB663 ENVIRONMENTAL CHEMISTRY

Toxicology; water quality and its assessment; modeling reactions in water bodies; air quality; criteria pollutants and health effects; indoor pollutants; monitoring; dispersion of pollutants; control techniques.

**Prerequisite:** CHB373 or CHB372  
**Credit Points:** 12      **Contact Hours:** 5 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. (Note: CHB671 is not compatible with CHB640; credit may not be retained for both.)

**Prerequisite:** CHB571  
**Credit Points:** 8      **Contact Hours:** 3 per week

#### ■ 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

#### ■ CHB693 MATERIALS CHEMISTRY

Properties of materials; metals and alloys; metallic corrosion; crystalline materials; cements, ceramics and glasses; polymers.

**Prerequisite:** CHB473  
**Credit Points:** 12      **Contact Hours:** 5 per week

#### ■ CHB700 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

#### ■ CHB780 ADVANCED TOPICS IN CHEMISTRY I

#### ■ CHB880 ADVANCED TOPICS IN CHEMISTRY 2

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

#### ■ 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:** 12      **Contact Hours:** 5 per week

#### ■ CHP320 DOWNSTREAM PROCESSING

Introduction to the fundamental problems of separation operations important to the recovery of commercial products from biological processes. Topics include: cell recovery and disruption,

membrane technology, chromatographic techniques, electrochemical separation and new bio-separation techniques. Instruction includes case studies, and Aspen bio-process simulation.

**Credit Points:** 12      **Contact Hours:** 5 per week

**■ CNP691 ENVIRONMENTAL CHEMISTRY**

The nature and composition of natural and polluted waters; metal ions, gases, redox equilibria complexation and microbial transformation of chemicals 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

**■ 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

**■ CNB013 BUILDING SERVICES 1 HVAC**

Minimum standards of ventilation, centrifugal and axial flow fan applications; ductwork, accessories, layout, construction and installation; requirements for human comfort in air-conditioning; the ASHRAE Comfort Chart; principles of refrigeration; air-conditioning systems, composition, cost, application, construction and installation; heating, fuel types, efficiency, capital and annual costs; effect of building ordinances.

**Co-requisite:** CNB253

**Credit Points:** 4      **Contact Hours:** 2 per week

**■ CNB014 BUILDING SERVICES 2 – 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 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

**■ CNB103 MATERIAL SCIENCE 1**

Properties, manufacture, use and analysis of timber, steel, concrete and clay products, investigation of their strength, density, hardness, porosity, plasticity, elasticity and deterioration; investigation and protection against corrosion and fire.

**Co-requisite:** CNB151

**Credit Points:** 4      **Contact Hours:** 2 per week

**■ CNB104 MATERIAL SCIENCE 2**

Physical and chemical properties of materials and their effect on construction and structural qualities;

laboratory and field testing of bricks, mortar, brickwork, concrete, timber, steel; protection of material against corrosion and fire.

**Credit Points:** 4      **Contact Hours:** 2 per week

**■ CNB131 MEASUREMENT OF CONSTRUCTION 1A**

Subject description as for CNB005.

**Credit Points:** 6      **Contact Hours:** 3 per week

**■ CNB143 STRUCTURES 1**

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

**■ CNB144 STRUCTURES 2**

Sec CNB143

**Prerequisite:** CNB143

**Credit Points:** 4      **Contact Hours:** 2 per week

**■ CNB151 CONSTRUCTION 1**

Materials, methods 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 accounting for costs, dimensional requirements, statutory regulations, life and adaptability and manufacturing and erection requirements; draughting typical details and working drawings; environmental science, comfort situations in varying climatic zones and their effect on building construction.

**Credit Points:** 12      **Contact Hours:** 6 per week

**■ CNB154 CONSTRUCTION 2**

Continuation of CNB151; properties of materials, and behaviour in manufacturing and construction, affect on form and structure; workshop and studio working details of building components, coordination of building elements.

**Prerequisite:** CNB151

**Credit Points:** 14      **Contact Hours:** 7 per week

**■ CNB161 BUILDING STUDIES 1**

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

**■ CNB162 BUILDING STUDIES 2**

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. Draught-

ing: preparation of typical construction details and drawings.

**Prerequisite:** BGB161

**Credit Points:** 9 **Contact Hours:** 3.5 per week

#### ■ CNB164 BUILDING SERVICES 1A

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

#### ■ CNB166 URBAN ECONOMICS

Economic processes and spatial context of the city; differentiation of competing land use; location decisions in the urban market; economic forces behind urbanisation; intra-urban location; market failures, externalities and government involvement; transport in the urban environment; cost/accessibility; urban management. Economics of the Australian construction industry.

**Credit Points:** 4 **Contact Hours:** 2 per week

#### ■ CNB172 CONSTRUCTION 2

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 are required to prepare working details of building components, coordination of building elements for specific building use.

**Credit Points:** 8 **Contact Hours:** 4 per week

#### ■ CNB243 LAW 1 – BUILDING ACTS & REGULATIONS

Passing and resolving Acts, regulations and by-laws; knowledgeable site representatives; study of building code of Australia, Queensland Home Building Code and Standard Building by-laws which control the design, construction and building works in Queensland; emphasis on building codes 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:** CNB254

**Credit Points:** 5 **Contact Hours:** 2 per week

#### ■ CNB245 MEASUREMENT OF CONSTRUCTION 1B

Methods of taking off and billing quantities in the trades of excavator, concreter, bricklayer, blocklayer and carpenter for simple building.

**Prerequisites:** CNB151, CNB154

**Co-requisite:** CNB253

**Credit Points:** 6 **Contact Hours:** 3 per week

#### ■ CNB246 MEASUREMENT OF CONSTRUCTION 2B

Methods of taking off and billing quantities in more complex building in the trades excavator, concreter, bricklayer, blocklayer in simple basement, underpinning, pier and beam, RC frame and suspended slab; taking off and billing in the trades asphalter, built-up roofing, demolisher, mason, structural steel and precast concrete.

**Prerequisites:** CNB253, CNB245,

**Co-requisite:** CNB254

**Credit Points:** 8 **Contact Hours:** 4 per week

#### ■ CNB247 MATERIAL SCIENCE 3

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 fracture, 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:** CNB103, CNB104

**Credit Points:** 4 **Contact Hours:** 2 per week

#### ■ CNB253 CONSTRUCTION 3

Study of industrial and multi-storey residential buildings; management, planning, and coordination of construction, site layout, site establishment and material handling processes; draughting and detailed drawings, site visits and/or workshop.

**Prerequisites:** CNB154, CNB103, CNB104

**Credit Points:** 10 **Contact Hours:** 5 per week

#### ■ CNB254 CONSTRUCTION 4

An extension of CNB253, dealing with multi-storey residential commercial buildings.

**Prerequisite:** CNB253

**Credit Points:** 12 **Contact Hours:** 6 per week

#### ■ CNB257 STRUCTURES 3

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; computers in structural design.

**Prerequisites:** CNB103, CNB104, CNB143, CNB144

**Credit Points:** 4 **Contact Hours:** 2 per week

#### ■ CNB258 STRUCTURES 4

Continuation of CNB257

**Credit Points:** 4 **Contact Hours:** 2 per week

#### ■ CNB261 BUILDING STUDIES 3

Study of the materials and construction of a range of structures from industrial single to multi-storey 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: a study of the non-structure materials such as building boards, ceramics, glass, plastics, paint from the manufacturing process through to the effects of ageing and problems of cleaning, repair and maintenance.

**Prerequisite:** CNB162

**Credit Points:** 8 **Contact Hours:** 3 per week

#### ■ CNB262 BUILDING STUDIES 4

An extension of CNB261, 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:** CNB261

**Credit Points:** 8 **Contact Hours:** 3 per week

#### ■ CNB263 VALUATION 1

Basic concepts and principles of real property value. Definitions of value. Process and methods used in

property valuation. Ethics of valuation profession. Factors influencing accuracy of valuations. The comparative approach. Valuations of vacant land and residential property. Valuation inspection and reports. Practical valuation assignments. Summation.  
**Credit Points:** 8      **Contact Hours:** 3 per week

### ■ CNB268 VALUATION 2

See CNB263.

**Prerequisite:** CNB263

**Credit Points:** 8      **Contact Hours:** 3 per week

### ■ CNB301 PM1 – ADVANCED CONSTRUCTION METHODS

Construction and site management problems encountered by a project manager; case studies having unusual construction problems or techniques; including site planning and organisation for small, medium and large projects; material handling and site equipment selection.

**Prerequisite:** CNB254

**Credit Points:** 4      **Contact Hours:** 2 per week

### ■ CNB341 BUILDING & CIVIL ENGINEERING CONSTRUCTION

Large project bulk excavation, earth and rock retaining systems, rock excavation and explosive handling; dewatering, pile driving, bored pier and special foundation construction; demolition of structures; roadworks, techniques, stabilised construction, surface sealing and associated bridge construction; falsework and temporary works.

**Credit Points:** 4      **Contact Hours:** 2 per week

### ■ CNB342 LAW 2 – PRINCIPLES & PROPERTY

Legal principles and process, the legal system and process; sources and divisions of the law; rules of precedence; 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

### ■ CNB343 ECONOMICS OF THE CONSTRUCTION INDUSTRY

Branches of economics and 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; 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; failure of developer and builder firms.

**Credit Points:** 4      **Contact Hours:** 2 per week

### ■ CNB345 HYGIENE & SANITATION

Subject description as for CNB164.

**Credit Points:** 6      **Contact Hours:** 3 per week

### ■ CNB362 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

### ■ CNB363 VALUATION 3

Principles and practice of cost approach, valuation of improvements, limitations of cost approach. Investment approach, basic capitalisation and cash flow techniques. Examination of assumptions. Practical applications of investment approach to suburban and CBD properties.

**Prerequisite:** CNB268

**Credit Points:** 8      **Contact Hours:** 3 per week

### ■ CNB364 VALUATION 4

See CNB363.

**Prerequisite:** CNB363

**Credit Points:** 8      **Contact Hours:** 3 per week

### ■ CNB367 REAL ESTATE ACCOUNTING 1

Principal issues in financial accounting: period versus 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

### ■ CNB368 REAL ESTATE ACCOUNTING 2

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 versus 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

### ■ CNB401 BUILDING ECONOMICS & COST PLANNING

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; cost, effects of site conditions, prefabrication and standardisation; approximate estimating, types and uses; measurement of variations, adjustment of prime costs and provisional sums; cost analyses, indices and data; applications and use of cost analyses; cost data; progress payments and final accounts.

**Prerequisites:** CNB446, CNB540

**Credit Points:** 4      **Contact Hours:** 2 per week

#### ■ CNB403 BUILDING MANAGEMENT 1

Management in principle, planning, leading, organising, controlling and applied communication; fundamentals of management; roles of policymaker and executive; accountability; problem solving; organisational structures and relationships, formal and informal structures; management in practice, building industry participants, client to builder; systems in the building industry; contract and head office management of small and large contracts; management, job description, contracts, plant, estimating, purchasing, planning and accounting section; types of tenders and contracts; controlling incoming work, securing contracts.

**Co-requisite:** CNB253

**Credit Points:** 4      **Contact Hours:** 2 per week

#### ■ CNB404 BUILDING MANAGEMENT 2

More advanced management principles and their application to site administration and management.

**Credit Points:** 4      **Contact Hours:** 2 per week

#### ■ CNB405 PROJECT EQUIPMENT & SAFETY

Construction Safety Act 1971-73 and regulations; fixed, mobile and portable equipment, hoarding, gantries, scaffolding and other miscellaneous gear; crane, hoist and other relevant code; 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:** CNB254

**Credit Points:** 4      **Contact Hours:** 2 per week

#### ■ CNB406 BUILDING FINANCIAL MANAGEMENT 2

Search and selection of construction projects; the discount rate cost of capital, 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; bidding theory and strategy; prescribed payments taxation system.

**Prerequisites:** ACB281, CNB403

**Credit Points:** 4      **Contact Hours:** 2 per week

#### ■ CNB440 LAW 3 – BUILDING CONTRACTS

Building and engineering agreements, practices relating to the building industry; 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; major provisions in Australian Standard Forms of Building Contract.

**Credit Points:** 6      **Contact Hours:** 1 per week

#### ■ CNB442 VALUATION & DILAPIDATION

Nature of value; effect of supply and demand of land and buildings; investment value and occupational value; types of landed property, incidents of their tenure, outgoings 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; 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

#### ■ CNB443 BUILDING SERVICES 3

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 of lift contracts and ancillary building work; cost of lifts; fire protection, sprinklers, detectors, alarms, extinguishers; telephone and sound systems; intrusion alarm systems; clock and time systems; acoustics.

**Co-requisite:** CNB253

**Credit Points:** 5      **Contact Hours:** 2.5 per week

#### ■ CNB444 MECHANICAL & ELECTRICAL ESTIMATING

Mechanical and electrical systems, parameters influencing their design and application; types estimates and tenders; preliminaries, trade awards and wage rates; take-off procedures, costing and estimating make-up calculations; system costs in relation to total building, floor area, operating and maintenance cost, builders allowance for each system.

**Prerequisite:** CNB013, CNB014

**Credit Points:** 4      **Contact Hours:** 2 per week

#### ■ CNB446 ESTIMATING 1

Building trades award and wages rates; hourly rate build up for equipment and trade services; calculation of preliminaries for a small suburban project.

**Prerequisites:** CNB006, CNB245

**Co-requisite:** CNB254

**Credit Points:** 5      **Contact Hours:** 2.5 per week

#### ■ CNB451 COMPUTER SOFTWARE APPLICATIONS 1

Preparation of bills of quantities using computer software packages; hands-on experience in set-up of base accounts, trades, headings; measurement input; editing, correction and data manipulation; report generation in various bill of quantities formats; pricing using estimated and/or tendered rates; elemental analyses; use of computer in measurement of non-traditional contractual systems; specification and preamble development.

**Credit Points:** 4      **Contact Hours:** 2 per week

#### ■ CNB452 COMPUTER SOFTWARE APPLICATIONS 2

Preparation of cost plan/estimates using computer software packages, including set-up of base accounts, parameter specifications; elemental and detailed estimate measurement; editing, correction and data manipulation; report generation and formatting; development of labour constants, standard rates and items; pricing, tendering, spreadsheet application; contract administration, variation control, rise and fall of final accounts; and progress payments and cash flow forecasts.

**Credit Points:** 4      **Contact Hours:** 2 per week

#### ■ CNB461 MEASUREMENT OF CONSTRUCTION 5

Methods of taking off and billing quantities in complex basement and foundation work in the trades underpinning, excavator, concreter, piling systems, complex structural systems in suspended slabs and walls.

**Prerequisite:** CNB010

**Credit Points:** 3      **Contact Hours:** 1.5 per week

### ■ CNB462 MEASUREMENT OF CONSTRUCTION 6

Methods of taking off and billing quantities in the trades plumber and drainer.

**Prerequisite:** CNB345

**Credit Points:** 3      **Contact Hours:** 1.5 per week

### ■ CNB464 VALUATION 5 – RURAL

The physical and economic factors of rural land and its development, land utilisation and degradation, farm management and productivity, factors influencing rural valuations. Rural sales analysis, valuation procedures and inspections. Practical valuation assignments.

**Prerequisite:** CNB268

**Credit Points:** 8      **Contact Hours:** 3 per week

### ■ CNB465 PROPERTY INVESTMENT ANALYSIS 1

Investment principles and strategy, property investment financing and evaluation, property investment market, time value of money concepts, cash flow techniques over time, application of CF techniques to property, feasibility studies, market analysis, risk analysis applied to property; the structure of detailed risk and return viability studies; portfolio theory applied to property; computer applications.

**Credit Points:** 8      **Contact Hours:** 3 per week

### ■ CNB466 PROPERTY INVESTMENT ANALYSIS 2

See CNB465.

**Credit Points:** 8      **Contact Hours:** 3 per week

### ■ CNB470 VALUATION 6 – RURAL

See CNB464.

**Prerequisite:** CNB464

**Credit Points:** 8      **Contact Hours:** 3 per week

### ■ CNB471 LAW 7 – PROPERTY PRACTICE LAW

The legal concepts and statutory requirements relevant to the property professional. Legislation governing property valuation and real estate practice. The effect of relevant statutes on real property. Standard real property contracts.

**Prerequisite:** CNB342

**Credit Points:** 6      **Contact Hours:** 2.5 per week

### ■ CNB472 PROPERTY TAXATION ISSUES

The implications of taxation on the overall profitability of property investments and developments. The distinction between developer and investor, project funding, the interpretation of ordinary income and capital gains tax. Deductions for project expenditure, in particular interest, negative gearing, depreciation and building amortisation.

**Prerequisite:** CNB368

**Credit Points:** 3      **Contact Hours:** 1.5 per week

### ■ CNB520 SPECIFICATION

Compilation of specifications complementing architectural documents; definitions, objects and purpose of a specification; specification as a contract legal and working document; reference material and specification writing; use of Master specifications; outright and performance specifications and preparation of specified bills of quantities.

**Prerequisite:** CNB254

**Credit Points:** 3      **Contact Hours:** 1.5 per week

### ■ CNB524 MEASUREMENT OF CONSTRUCTION 7

Methods of taking off and billing quantities in the trades of mechanical and electrical engineer, external works and preliminaries.

**Prerequisites:** CNB013, CNB443

**Credit Points:** 4      **Contact Hours:** 2 per week

### ■ CNB526 POST CONTRACT SERVICES 1

Method of adjustment of provisional items, rise and fall entitlements; preparing valuation certificates for progress payments; cost control techniques used during the construction period; review of applicable contractual clauses; quantity surveying practice, adjustment to the contract sum for variations; feasibility studies; different types of contractual arrangement and selection of contractors.

**Credit Points:** 5      **Contact Hours:** 2.5 per week

### ■ CNB529 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:** CNB403, CNB404

**Credit Points:** 5      **Contact Hours:** 2.5 per week

### ■ CNB540 ESTIMATING 2

Build up of typical rates for 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 projects.

**Prerequisites:** CNB009, CNB010, CNB246, CNB446

**Credit Points:** 5      **Contact Hours:** 2.5 per week

### ■ CNB543 LAW 4 – TORTS & ARBITRATION

Law of tort, negligence, professional negligence, duty of care, liability, occupiers' liability, nuisance, fraud and conversion; arbitration, nature of and comparison with actions of 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:** CNB440

**Credit Points:** 3      **Contact Hours:** 1.5 per week

### ■ CNB547 PM3 – CONSTRUCTION PLANNING TECHNIQUES 1

Application of construction planning and control techniques; bar charts; critical path networks, arrow and precedence diagrams; updating, control and reporting techniques; line of balance.

**Prerequisite:** CNB254

**Credit Points:** 5      **Contact Hours:** 2.5 per week

### ■ CNB548 PM4 – CONSTRUCTION PLANNING TECHNIQUES 2

Resource management; basic and production planning techniques; planning and control for various

types of projects; misuse and abuse of planning and legal problems associated with CPM.

**Prerequisite:** CNB547

**Credit Points:** 8 **Contact Hours:** 4 per week

#### ■ CNB550 PM5 – PROJECT COST CONTROL

Financial planning and cost control of the construction project; the development time relationships, 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, processing payments, negotiating extensions and prolongation claims, rise and fall, prescribed payments.

**Credit Points:** 6 **Contact Hours:** 3 per week

#### ■ CNB552 OFFICE MANAGEMENT

Scale of fees and professional charges; code of ethics; letters of engagement; law involving the quantity surveyor and the client; professional indemnity; professional image and status; office management and procedures.

**Credit Points:** 2 **Contact Hours:** 1 per week

#### ■ CNB561 PROPERTY MAINTENANCE

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.

**Prerequisite:** CNB164

**Credit Points:** 8 **Contact Hours:** 3 per week

#### ■ CNB563 VALUATION – ADVANCED I

Capital taxation as it affects property transactions. Valuations for development land tax, capital transfer tax and taxation of capital gains. Valuations for statutory rating purposes under relevant legislation. Valuations for compulsory acquisition. Assessment of compensation resulting from acquisition, resumption and damage. Evidence, the expert witness and professional liability.

**Prerequisites:** CNB363, CNB364

**Credit Points:** 8 **Contact Hours:** 3 per week

#### ■ CNB564 VALUATION – ADVANCED 2

Valuation of specialist-type properties including licensed premises, hotels, service stations, entertainment and public properties. The valuation of corporate assets for organisational and balance sheet purposes. The future role of the valuer.

**Credit Points:** 8 **Contact Hours:** 3 per week

#### ■ CNB565 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

#### ■ CNB567 REAL ESTATE PRACTICE 1

Management concepts applied to real estate, a business plan, office administration, staff recruitment and training, trust accounts, functions of composite real estate practice, real estate software packages.

**Credit Points:** 4 **Contact Hours:** 2 per week

#### ■ CNB568 REAL ESTATE PRACTICE 2

See BGB567.

**Credit Points:** 5 **Contact Hours:** 2.5 per week

#### ■ CNB601 FORMWORK DESIGN & CONSTRUCTION

Formwork building, quality, safety, control; formwork planning, re-use, materials and hardware; cost hire or buy; erecting and stripping; scheduling, 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; propriety formwork systems, simple falsework design.

**Prerequisite:** CNB144

**Co-requisite:** CNB253

**Credit Points:** 4 **Contact Hours:** 2 per week

#### ■ CNB606 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 subdivisible land; financial aspect of development projects, trends and prospects in the housing development industry.

**Credit Point:** 4 **Contact Hours:** 2 per week

#### ■ CNB623 PM6 – BUILDING DEVELOPMENT TECHNIQUES 1

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; 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

#### ■ CNB624 PM7 – BUILDING DEVELOPMENT TECHNIQUES 2

See CNB623.

**Credit Points:** 4 **Contact Hours:** 2 per week

#### ■ CNB626 LAND DEVELOPMENT STUDIES

Subject description as for CNB606.

**Prerequisites:** CNB663, LPB441, LPB444

**Credit Points:** 4 **Contact Hours:** 2 per week

#### ■ CNB642 APPLIED COMPUTER TECHNIQUES

Evaluation of a range of commercial computer programs designed for the development and construction industry.

**Prerequisite:** CNB548

**Credit Points:** 6 **Contact Hours:** 3 per week



### ■ CNB643 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:** 1.5 per week

### ■ CNB647 COST PLANNING & CONTROL 1

The significance of construction economics for the client, the professions, the industry and society; historical development, need for and main aims of cost control; comparing cost planning and approximate estimating; cost implication of design variable, shape, size, perimeter, storey height; cost implications of construction methods of site and market conditions, or 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:** CNB005, CNB006, CNB009, CNB010, CNB446, CNB461, CNB462, CNB524, CNB540

**Credit Points:** 4      **Contact Hours:** 2 per week

### ■ CNB648 COST PLANNING & CONTROL 2

Continuation of CNB647.

**Credit Points:** 6      **Contact Hours:** 3 per week

### ■ CNB653 POST CONTRACT SERVICES 2

Continuation of CNB526.

**Credit Points:** 5      **Contact Hours:** 2.5 per week

### ■ CNB656 BUILDING RESEARCH

History of building research; definition of research; Australian and international building research organisations; nature of the building industry and implications for research; financing research; future developments in building research; research management; research process; development and presentation of a bibliographic report.

**Prerequisite:** CNB341

**Credit Points:** 18      **Contact Hours:** 4.5 per week

### ■ CNB661 ELECTIVE RESEARCH PROJECT 1

Develop an ability to disseminate and evaluate information and specialised knowledge and acquire an understanding of research methodology. 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

### ■ CNB662 ELECTIVE RESEARCH PROJECT 2

See CNB661

**Credit Points:** 8      **Contact Hours:** 4 per week

### ■ CNB663 PROJECT DEVELOPMENT PROCESS 1

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 CNB623/4.

**Credit Points:** 5      **Contact Hours:** 2 per week

### ■ CNB664 PROJECT DEVELOPMENT PROCESS 2

See CNB663

**Credit Points:** 5      **Contact Hours:** 2 per week

### ■ CNB665 PROPERTY MANAGEMENT 1

The role and importance of property management. The legal and physical parameters governing the establishment, holding, use and income generation of property assets. Theoretical and practical knowledge of the operation of components of property management. The management of residential, retail, industrial and commercial buildings. Main statutory provisions relating to above tenancies. Tenancy agreements, management records and accounts. Insurance. Cash flow and credit control.

**Credit Points:** 8      **Contact Hours:** 3 per week

### ■ CNB666 PROPERTY MANAGEMENT 2

See CNB665.

**Credit Points:** 8      **Contact Hours:** 3 per week

### ■ CNB667 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

### ■ CNB668 LAW 6 – VALUATION OF LAND

An 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, interest 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. Valuation appeals procedures.

**Credit Points:** 4      **Contact Hours:** 2 per week

### ■ CNB442 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:** 48      **Contact Hours:** 2 per week

### ■ CNB414 TIME MANAGEMENT 2

Development of an understanding and a high level of competence in the design of planning and control techniques for all stages of project management. 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 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

#### ■ CNP417 DESIGN MANAGEMENT

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 detailed documentation; decision sequences in design; appreciation of the consequence of design decisions on the total project; the inter-relationships between architectural design and engineering and service design requirements; briefing techniques.

**Credit Points:** 6      **Contact Hours:** 2 per week

#### ■ CNP422 SPECIALIST VALUATIONS

Theory of value, valuation types and approaches, practical approaches to the following valuation types: rating, compensation for compulsory purchase, investment, own-use, property assets, portfolios, public and specialist properties. Assessment of potential.

**Credit Points:** 6      **Contact Hours:** 2 per week

#### ■ CNP426 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      **Contact Hours:** 2 per week

#### ■ CNP429 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      **Contact Hours:** 2 per week

#### ■ CNP430 CURRENT ISSUES

The 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. Arcas may include: quality management, buildability, value analysis, case studies, industrial relations, computer applications and selection, technology, information systems IT and AI, international project management, simulation exercises (Arousal, Bicep), recent developments in law, and englobal land development. It is expected that many of these topics will be covered by guest speakers from industry or presented in the form of seminars.

**Credit Points:** 9      **Contact Hours:** 3 per week

#### ■ CNP431 PROJECT MANAGEMENT

Introduction to basic theory in the areas of communication, management and organisation as it applies to the project situation. Communication – process, skills, environment, applications; management theory and organisation theory. Negotiation. Project team building. Motivation theory. Construction and project leadership. Change. Strategic

management and planning. Personnel. Decision-making strategies. Stress management.

**Credit Points:** 6 per semester

**Contact Hours:** 2 per week

#### ■ CNP433 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      **Contact Hours:** 2 per week

#### ■ CNP434 TIME MANAGEMENT 1

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

#### ■ CNP437 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

#### ■ CNP438 REAL ESTATE INVESTMENT ANALYSIS

Investment principles, characteristics, goals and strategies; investment alternatives, property investments and evaluation techniques; current property investment market in Australia; basic risk and return measures and financing; time value of money concepts, PV, FV, PMT, and dual rates; cash flows models and partial interests; NPV's and IRR's and their applications; cash flow assumptions and rates of return; practical cash flow applications and spreadsheets; financial feasibility study models; tax issues related to property investment; property type selection.

**Credit Points:** 12      **Contact Hours:** 4 per week

#### ■ CNP439 PROPERTY MANAGEMENT

The motivation, instrumentation and application of property management for commercial and industrial real estate, including lease construction, rental valuations, rent review, review types, budgeting, outgoings and physical management. Trends and prospects for the industry.

**Credit Points:** 12      **Contact Hours:** 2 per week

#### ■ CNP667 APPLIED COMPUTING

The development and application of computer programs in the financial and physical management process of property development, management and investment.

**Credit Points:** 6      **Contact Hours:** 2 per week

#### ■ COB018 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: SSB003, SSB007

**Credit Points:** 12      **Contact Hours:** 3 per week

## ■ COB029 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:** COB018

**Credit Points:** 12      **Contact Hours:** 3 per week

## ■ COB100 COMMUNICATION MANAGEMENT

Communication issues in an organisational setting, planning a course of action; using research to monitor change; application of problem-solving skills.

**Prerequisite:** COB112

**Credit Points:** 12      **Contact Hours:** 3 per week

## ■ COB101 COMPUTER-MEDIATED COMMUNICATION

How new communication technologies affect the traditional information processing systems within the corporate culture; the impact of new technologies on traditional writing and document design; information access and distribution; organisational networks; electronic mail; computerised text analysis and style replicators; computer conferencing; the human-machine interface and interpersonal relationships.

**Credit Points:** 12      **Contact Hours:** 3 per week

## ■ COB102 CONSULTING FOR ORGANISATIONAL CHANGE

Models of planned change; the change agent; change project management; diagnostic interventions; collecting, analysing and feeding back data; designing interventions; interpersonal and group process interventions; organisational process interventions; organisational strategy interventions; technostuctural interventions; transition processes; professional ethics; evaluating and institutionalising change.

**Prerequisite:** COB106

**Credit Points:** 12      **Contact Hours:** 3 per week

## ■ COB103 CRITICAL PERSPECTIVES ON ORGANISATIONS & ENVIRONMENT

The art of organisational analysis; history of science; organisations as machines/instruments of domination; linguistic analysis; systems theory; organisations as political systems; organisations as psychic prisons; sub-modalities and shifting metaphors; organisations as flux and transformation: lessons from modern physics; hypothetical; ethics and the environment.

**Credit Points:** 12      **Contact Hours:** 3 per week

## ■ COB105 ETHICS

Morality & ethics; ethical relativism; ethical egoism; utilitarianism; Kantian and deontological systems; epistemology of human rights; emotivism/prescriptivism; virtue-based ethical systems; ethics and justice; ethics and individual choice; ethics and organisational change; ethical problems as managerial dilemmas; moral challenge of business.

**Credit Points:** 12      **Contact Hours:** 3 per week

## ■ COB106 GROUP COMMUNICATION: THEORY & PRACTICE

Exploration and practice in interpersonal communication skills such as listening, assertion and negotiation. Business and media interviewing and small group communication in organisational settings provide the focus for the program. Group dynamics and systems theory as a theoretical base for analysing communication performance. Students practice problem-solving strategies by rehearsing vocational situations.

**Prerequisite:** COB134

**Credit Points:** 12      **Contact Hours:** 3 per week

## ■ COB108 INTER-ORGANISATIONAL RELATIONS

The ways organisations interact; classic views reflecting competitive relationships contrasted with emerging forms, including cooperatives and strategic alliances; cross-cultural aspects of organisational forms and relationships with particular reference to Pacific rim nations.

**Prerequisite:** BSB102

**Credit Points:** 12      **Contact Hours:** 3 per week

## ■ COB110 ORGANISATION & SOCIETY

The context for studies in the broad area of organisation; a base for advanced studies in either organisational communication or organisational studies, drawing primarily upon sociology: functionalist, interpretative and critical perspectives.

**Credit Points:** 12      **Contact Hours:** 3 per week

## ■ COB111 ORGANISATIONAL CHANGE APPLICATIONS

Application of organisational theory and change skills through critical analyses of an organisation; case study organisation: on-site familiarisation and seminar; analysis of case study organisation; presentation of findings to client organisation; review: critique of an analysis: content and process.

**Prerequisites:** COB102, COB103

**Credit Points:** 12      **Contact Hours:** 3 per week

## ■ COB112 ORGANISATIONAL COMMUNICATION

How people communicate with each other in modern organisational settings, from small businesses to multinational organisations in the public and private sector; a problem-solving, interdisciplinary approach to communication up, down and across the organisation, among divisions and work units, among different professional and vocational specialists, and within work teams.

**Prerequisite:** BSB102

**Credit Points:** 12      **Contact Hours:** 3 per week

## ■ COB113 THEORETICAL PERSPECTIVES ON COMMUNICATION

The contemporary study of communication; the ways in which the theories may be applied to particular professional communication situations; an overview of the major theoretical and methodological approaches in the study of communication within a professional context.

**Credit Points:** 12      **Contact Hours:** 3 per week

## ■ COB114 TRENDS IN ORGANISATION DESIGN

Provides students with the ability to conceptualise and evaluate new perspectives in organisational design. Topics include: the future of work; classical perspective on design; open systems perspectives; sociotechnical systems perspectives; remote working; organisation learning; collaboration within and between organisations; experiments in work design; cooperatives; networks; the problem of power; distribution; open organisations.

**Prerequisite:** COB129

**Credit Points:** 12      **Contact Hours:** 3 per week

## ■ COB115 ORGANISATION & MANAGEMENT

An introduction to the theory, process and practice of management and organisations. Emphasis is placed on the importance of people in achieving organisational objectives and the need for participants in organisations to become more analytical and strategic

in their approach to managing various organisations including those in both the public and private sector.  
**Credit Points:** 12      **Contact Hours:** 3 per week

■ **COB116 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:** 12      **Contact Hours:** 3 per week

■ **COB118 COMMUNICATION TECHNOLOGY IN ORGANISATIONS**

The effects of communication technology on organisational structures and processes, and on people; the concepts and applications of technology which impact on information processing and communication in organisations.

**Credit Points:** 12      **Contact Hours:** 3 per week

■ **COB119 TEXT FORMATTING & TRANSCRIPTION**

The use of technology for document preparation, formatting and transcription, analysis of underlying principles of skills acquisition; traditional and technological perspectives on: document design, document formatting, business correspondence, tabulation, financial statements, business forms, document formatting for specialised businesses and transcription.

**Credit Points:** 12      **Contact Hours:** 3 per week

■ **COB120 BUSINESS COMMUNICATION**

Communication in business organisations; the way in which electronic production and transmission is complementing traditional methods of communication; the communication process; written, verbal and non-verbal communication in organisations; electronic communication, such as electronic mail, facsimile, telephone, video-conferencing and electronic calendaring; document preparation for traditional and electronic methods of communication, including word processing and desktop publishing; statistical presentation as communication tools.

**Credit Points:** 12      **Contact Hours:** 3 per week

■ **COB121 RECORDS MANAGEMENT**

The paper-based and electronic records and information systems operating within and between organisations; analysis of the impact that changes in communication technology have had on these systems.

**Prerequisite:** COB118

**Credit Points:** 12      **Contact Hours:** 3 per week

■ **COB122 OFFICE PROCEDURES**

Communication technology and its impact on functions and operational procedures in offices, and as a result enhances teaching competency in this area.

**Credit Points:** 12      **Contact Hours:** 3 per week

■ **COB123 ISSUES IN COMMUNICATION TECHNOLOGY**

The process of adoption and implementation of new communication techniques within business organisations; the effect of such implementation on work structures and job design and the resulting social issues and implications.

**Prerequisite:** COB118

**Credit Points:** 12      **Contact Hours:** 3 per week

■ **COB126 SUPERVISION & ADMINISTRATION**

The impact of technological change on the supervision and administrative practices as they relate to

communication processes in organisations; the role and duties of supervisory and administrative personnel in information processing; the impact on these roles and duties brought about through changes in technology.

**Prerequisite:** COB123

**Credit Points:** 12      **Contact Hours:** 3 per week

■ **COB128 SUPERVISED PROJECT**

An individual research project investigating an approved aspect of organisational design, change and strategy within a local business organisation.

**Prerequisite:** Personal interview and approval by lecturer.

**Credit Points:** 12      **Contact Hours:** 3 per week

■ **COB129 ORGANISATIONAL PROCESSES**

Organisations are examined from four perspectives: individual, group, organisational and community; emphasis on developing skills for making organisations effective, efficient and humane.

**Prerequisite:** BSB102

**Credit Points:** 12      **Contact Hours:** 3 per week

■ **COB130 WRITING FOR DESIGNERS 1**

The writing process: style, accuracy and simplicity in writing; the editing process.

**Credit Points:** 4      **Contact Hours:** 2 per week

■ **COB131 WRITING FOR DESIGNERS 2**

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

■ **COB132 THE HUMAN ENVIRONMENT 2**

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

■ **COB133 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

■ **COB134 SPEECH COMMUNICATION: THEORY & PRACTICE**

Based on the rhetorical perspective; oral, non-verbal and visual modes of communication in their application to business speaking. It aims to develop in the student the ability and confidence to successfully communicate in contemporary business and professional situations, such as: face-to-face business interviews; presentations to small groups, i.e. clients, boards of directors, etc.; persuasive presentations to large groups such as the public, large company meetings, etc.

**Credit Points:** 12      **Contact Hours:** 3 per week

■ **COB135 PROFESSIONAL COMMUNICATION (INFORMATION TECHNOLOGY)**

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, leadership and participation.  
**Credit Points:** 9      **Contact Hours:** 3 per week

#### ■ COB136 PROFESSIONAL COMMUNICATION (SERVICE)

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 procedures, leadership and participation.  
**Credit Points:** 6      **Contact Hours:** 3 per week

#### ■ COB137 ENGLISH FOR TECHNOLOGISTS

The principles of and strategies for writing effective technical documents and communicating technical material.  
**Credit Points:** 6      **Contact Hours:** 3 per week

#### ■ COB138 WRITTEN COMMUNICATION: THEORY & PRACTICE

The principles of expository and persuasive writing in academic and business contexts.  
**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ COB139 WRITING FOR DESIGNERS 1

Enhancement of students' skills in speaking and writing for a professional audience. Includes: analysing the characteristics of successful spoken and written communication; delivering informative presentations; and writing research papers.  
**Credit Points:** 4      **Contact Hours:** 2 per week

#### ■ COB140 WRITING FOR DESIGNERS 2

Development of further skills in speaking and writing for a business audience. Includes: analysing the characteristics of a presentation to clients; presenting a polished client brief; writing proposals, reports, and business letters.  
**Credit Points:** 4      **Contact Hours:** 2 per week

#### ■ COB141 COMMUNICATIONS

Development of skills in reading, writing and spoken communication with special reference to professional and administrative contexts; 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

#### ■ COB142 COMMUNICATION FOR ENGINEERS

Development of confidence in the dissemination of knowledge, skills and information to both technical and non-technical associates via written and oral communication resources; oral presentation techniques; effective written communication skills.  
**Prerequisite:** COB160  
**Credit Points:** 2      **Contact Hours:** 1 per week

#### ■ COB143 TECHNICAL WRITING

The prose, mechanical and graphic 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

#### ■ COB144 LITERATURE & COMMUNICATION

Development of skills in written communication, and in dealing with a variety of communicative and textual forms. Students acquire an understanding of various forms of written communication, specifically literary forms such as fiction and poetry, and performative, such as drama. Literary theory as well as language and communication theory. Background for students wishing to take electives in the humanities area in later semesters.

**Prerequisite:** COB160

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ COB157 CORPORATE WRITING & EDITING

The specific requirements of writing in the corporate environment; principles and procedures in writing management submissions, reports, and manuals, as well as letters, memos, and resumes; the content, style and presentation of professional documents for specific readers.  
**Prerequisite:** COB138 or COB160  
**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ COB158 ADVANCED SPEECH COMMUNICATION (THEORY & PRACTICE)

Based on the semiotic perspective using practical drama as the tool for learning. Communication theory: verbal structure, paralanguage, proxemics, kinesics, etc. through this medium. The development of expressive self-presentation skills in the business environment. The subject aims to develop communicators with an understanding of communicator style who are creative and risk-taking in their presentations; who, having an understanding of the multiple message levels of oral communication, will approach a presentation with a prepared control over visual, verbal, paralinguistic, and kinesic elements of performance.  
**Prerequisites:** COB134, COB113  
**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ COB159 RESEARCH CONCEPTS & TECHNIQUES

An overview of the main traditions of research; secondary research: various library information retrieval techniques; qualitative methods: focus groups, action research, content analysis and institutional analysis; quantitative techniques: survey methods and the questionnaire relationship between consumers and researchers.  
**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ COB160 PROFESSIONAL COMMUNICATION

Principles and strategies that enable students to cope with the complex rhetorical demands of writing and speaking within the organisational culture.  
**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ CON101 COMMUNICATION STRATEGIES

Communication theory put into practice. Examples of policy and plans; how to produce the appropriate change through communication. The ethics of persuasion and the problems of cooperation explored in the process of policy formation and planning. Students take into account the social implications of producing change, the role of the change agent and ways to monitor the effects in Australia as well as developing societies. Alternative perspectives for strategic thinking and application in the environments of marketing, advertising, editorial journalism, or-

ganisational communication, public relations, public affairs and public information.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ **CON102 ADVANCED ORGANISATIONAL COMMUNICATION**

How people relate to each other in modern organisational settings, from small businesses to multi-national organisations in the public and private sector; communication up, down and across the organisation, among divisions and work units, among different professional and vocational specialities and within work teams; 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

#### ■ **CON103 ADVANCED COMMUNICATION MANAGEMENT**

Allows students, after an exposure to the diverse field of communication, to review aspects of this field in depth. 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 to consider the management of communication programs and systems.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ **COP100 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 procedures; 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

#### ■ **COP101 ARTS ADMINISTRATION & SOCIETY**

The foundations of the arts and arts administration in Australia; the role of arts organisations; organisational structures and planning processes; facilities; policy-making; government; community arts; current research and practices.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ **COP102 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 the use of the media; management case studies; operational procedures within arts organisations.

**Prerequisite:** COP101

**Credit Points:** 12      **Contact Hours:** 4 per week

#### ■ **COP103 STRATEGIC ORGANISATIONAL 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.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ **COP104 STRATEGIC ORGANISATIONAL THOUGHT & PRACTICE 2**

Continuation of COP103.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ **COP105 ISSUES IN OFFICE ADMINISTRATION**

Issues in office administration roles in the workplace; interpersonal relations; organisational culture and climate; development of practical skills within an appropriate learning framework to deal with these issues.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ **COP106 COMMUNICATION THEORY**

An overview of classical rhetorical theory, contemporary rhetorical theory and systems theory; the ways in which these theories, methods and approaches may be applied to particular professional communication situations.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ **COP108 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

#### ■ **COP109 PERSONAL & INTERPERSONAL SKILLS**

An overview of the social, organisational and service contexts in which human service organisations operate; development of an interpersonal style for effectiveness in such organisations; development of skills in career management, job getting, time management, stress management, communication, assertion, working with managers, collaborating in work groups, managing disagreement and conflict, and contributing to change.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ **COP110 INNOVATION & CHANGE**

Clarification of need for change in human service organisations; exploration of models of change, approaches to change and the change agent role; development of effective strategies for contributing to and initiating change.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ **COP111 INDEPENDENT STUDY 1**

#### ■ **COP112 INDEPENDENT STUDY 2**

An indepth study of a topic that extends the body of knowledge of course participants, enhances their performance as a human service manager or benefits their organisation.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ **COP113 ORAL COMMUNICATION SKILLS**

Formal oral communication techniques including meetings, conferences, interviews and speeches (informative and persuasive).

**Credit Points:** 2      **Contact Hours:** 1 per week

#### ■ **COP114 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

## ■ COP115 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

## ■ COP116 SKILLS FOR OFFICE AUTOMATION

Development of keyboard skills using micro-computers; introduction to basic word processing and text editing techniques covering a range of type-written business communications: correspondence, reports, tabulations.

**Credit Points:** 12      **Contact Hours:** 3 per week

## ■ COP118 MANAGEMENT PRACTICES 1

Exploration of managerial paradigms and their relevance for human service organisations; discussion of issues affecting the managerial task; development of a managerial style that is consistent with the tasks and philosophies of the human services.

**Credit Points:** 12      **Contact Hours:** 4 per week

## ■ COP119 MANAGEMENT PRACTICES 2

Development of managerial skills including those relating to recruitment and selection, supporting and developing workers, assisting with problems of workers, developing collaborative work environments, managing meetings, making decisions, resolving conflict and stress.

**Credit Points:** 12      **Contact Hours:** 4 per week

## ■ COP120 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:** COP116

**Credit Points:** 12      **Contact Hours:** 3 per week

## ■ COP121 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:** COB138

**Credit Points:** 12      **Contact Hours:** 3 per week

## ■ COX100 INTRODUCTION TO ORGANISATION

Examination of basic management and organisational skills and their application to the workplace.

**Credit Points:** 12      **Contact Hours:** 4 per week

## ■ COX101 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:** 3 per week

## ■ COX102 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

## ■ COX103 WRITTEN & SPOKEN ENGLISH

The development of 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

## ■ COX104 COMMUNICATION TECHNIQUES

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 procedures.

**Credit Points:** 4      **Contact Hours:** 2 per week

## ■ COX107 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

## ■ CPB101 SCHOOLS & COMMUNITIES

The range of inter-relationships 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.

**Credit Points:** 8      **Contact Hours:** 2 per week

## ■ CPB102 SOCIALISATION THROUGH PLAY

The socialisation of a child in both the home and the school; socialisation through the medium of play.

**Credit Points:** 8      **Contact Hours:** 2 per week

## ■ CPB200 EDUCATION IN THE AUSTRALIAN CONTEXT

The application of theoretical models and other paradigms to the development of a personal perception of Australian identity; the relationship between identity, society, culture and education; the investigation of specific key dimensions of Australian society and identity; dynamic and changing contemporary phenomena.

**Credit Points:** 8      **Contact Hours:** 3 per week

## ■ CPB201 EDUCATION & SOCIETY

Three major focuses of the sociocultural study of education and schooling: historical, philosophical and social origins of education; educational transmission and reproduction; socialisation processes and educational outcomes.

**Credit Points:** 12      **Contact Hours:** 3 per week

## ■ CPB202 EDUCATION & CHANGE

Examination of change as an adjunct of the character and values of society and the nature and needs of human beings. Existing and developing agendas for change are examined in several fields such as: multiculturalism; equity; employment; educational assessment; teaching and learning with a view to encouraging students to develop personally effective responses to the demands of change that are relevant to schools and pupils.

**Prerequisite:** CPB201

**Credit Points:** 8      **Contact Hours:** 3 per week

## ■ CPB280 EDUCATIONAL LEADERSHIP

The foundations of leadership: systems theory; social systems; values; organisations; role theory; the

leaders and the program; developing a model of leadership; identifying and investigating leadership situations.

**Credit Points:** 8      **Contact Hours:** 3 per week

#### ■ CPB281 ETHNICITY & RACISM IN EDUCATION

An historical and theoretical study of ethnicity, indigenous identity and assignation movements, pluralism and social engineering; approaches for combating racism and the role of the Human Rights Commission; case studies; examination of a range of approaches to developing cultural sensitivity, curriculum change and a classroom climate which applies national agenda and concerns to teaching practice.

**Credit Points:** 8      **Contact Hours:** 3 per week

#### ■ CPB282 POLICY ISSUES IN EDUCATION

The development in students of the knowledge, skills and understandings which enable them to be: originators of policy at community and school levels of concern; participants in policy formulation at all levels; and end-users of policy. A particular emphasis is placed upon the notion of professional empowerment and positive self-worth as a possible outcome of involvement in these processes.

**Credit Points:** 8      **Contact Hours:** 3 per week

#### ■ CPB301 EDUCATION IN CONTEXT

Education and change in a post-modern society; the implications for education of the complex and diverse nature of Australian society; the role of policy making in meeting the educational challenges of the 1990s.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ CPB302 EDUCATION & SOCIETY

Social analysis and its application to educational and social issues; the development of schooling as an institution and the role of schools in social control and in perpetuating inequalities. Particular emphasis is given to the impact of ideologies in education.

**Prerequisite:** CPB301

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ CPB303 PHILOSOPHICAL ANALYSIS OF SCHOOL PRACTICES

The subject analyses current school practices, including the organisation of schools, the nature of teacher work and debates about education from a philosophical perspective. It then centres on articulating a philosophy of teaching which emphasises a transformative approach to education.

**Prerequisites:** 1st and 2nd Year Studies in Education

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ CPB320 CRITICAL PERSPECTIVES ON CLASSROOM KNOWLEDGE

The 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.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ CPB321 EDUCATION FOR A MULTICULTURAL SOCIETY

In this subject students are introduced to the concept of multiculturalism and are given specialist knowledge to prepare them to teach in schools in a multicultural society.

**Prerequisites:** CPB301, PB302

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ CPB420 CONTEMPORARY ISSUES IN EDUCATION

Exploration of the cultural and social contexts and selected psychological factors relevant to the processes of education and schooling in an era of change; application of the principles of social justice to the evaluation of education policy and practice, and analysis of social and personal action relevant to educational change.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ CPB421 PHILOSOPHICAL PERSPECTIVES ON SCHOOLING

Recent developments in philosophy of education, which attempt to account for the micro-institutional practices of schooling, those relating to school prospectuses, timetables, school architecture, classroom work.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ CPB422 PHILOSOPHY IN THE CLASSROOM

Philosophical belief systems underlying approaches to learning, knowledge and curriculum. Justice and fairness to both teachers and students in the classroom. Current developments as they relate to classroom practices.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ CPB423 SOCIETY, SOCIAL POLICY & EDUCATION

Education as social policy; historic, economic and political context of educational policy making; education and social justice; policy, social change and education practice.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ CPB424 SOCIOLOGY OF THE SCHOOL

Using a sociological framework, this subject provides teachers and administrators with an opportunity to analyse schools and classrooms within a social context. From this analysis and the understanding gained, students are able to draw implications to assist them in carrying out their teaching and administration practices more effectively.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ CPB425 AESTHETIC EDUCATION

An examination of aesthetics, both traditional and contemporary, and the relevance they have for understanding the role arts play in education; the democratisation of culture, encouraging more representative forms of cultural production; the evaluation of arts, particularly in the classroom; theory of creativity and the imagination; the deficiencies of an individualistic ethic in the arts.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ CPB440 THE COMMUNITY & SCHOOL ADMINISTRATION

This subject provides students with an opportunity to broaden their understanding of the community context in which schools operate. It examines examples of successful community-school linkages such as school advisory councils and develops students' capacities to manage and develop these linkages.

**Prerequisites:** Minimum of one year's teaching experience.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ CPB441 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 educa-



tion; growth of educational bureaucracies; State involvement in secondary education; establishment of tertiary education in Australia; the influence of particular reports on Australian education.  
**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ CPB442 EDUCATION FOR A MULTICULTURAL SOCIETY

Over the last decade, multiculturalism has replaced assimilation as an approach to migrants. In this subject teachers are given specialist knowledge and skills to prepare students for life in a multicultural society.  
**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ CPB443 COMPARATIVE & INTERNATIONAL EDUCATION

Australia's identity in the international community has significant implications for education. This subject introduces students to major international issues in education through studies of global developments and by comparing Australian education with education in other cultures. The subject develops skills and knowledge appropriate for teachers of the 1990s and the next century.  
**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ CPB444 ISSUES IN ABORIGINAL EDUCATION

Factors influencing the position of Aborigines and Islanders 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

#### ■ CPB445 CAREER & LIFE PATTERNS OF WOMEN TEACHERS

The relevance of theories of adult development and career development for understanding the personal and professional life patterns of women teachers is studied. Emphasis is placed upon acquiring personal coping strategies. This subject is also of relevance to male teachers seeking a deeper understanding of conflicts facing female teachers.  
**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ CPB446 WOMEN, EDUCATION & SOCIAL CHANGE IN AUSTRALIA

Education and other social policy initiatives relating to women; current debates on the status of women and education's intervening role; ideology and the position of women; effects of economic and technological change; educational implications.  
**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ CPB491 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

#### ■ CPB492 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

#### ■ CPB493 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

#### ■ CPN601 EMERGING LEADERSHIP APPROACHES IN EDUCATION

This subject explores the continuing development of approaches to studying educational leadership within the current social, political and economic contexts of institutions with educative functions, eg. schools, TAFE, health systems and universities. Theoretical perspectives which can help inform leadership practices are addressed as is the essence of the concept itself. Theory and practice are examined in order to facilitate an understanding of leadership trends in the 1990s.  
**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ CPN602 LEADERS AS AGENTS OF CHANGE IN EDUCATION

This subject addresses a fundamental dilemma which is emerging for leaders. While much of the literature reflects a need for more democratic, participative and facilitative leadership practices in periods of change, the political and economic climate calls for more market oriented and cost effective management. This dilemma is examined at the structural level of institutions and at the level of individual strategic planning in order to help students plan their own leadership practices.  
**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ CPP410 UNDERSTANDING EDUCATION A

This subject responds to current needs for quality teaching and learning in schools. It seeks to equip future professionals for their complex roles as educators, inviting them to reflect upon the origins, purposes and consequences of educational thought and action. This process engages concepts drawn from the traditional educational disciplines and responds to contemporary challenges by means of critical enquiry. It integrates ideas about teaching with current practices in actual professional contexts. Four major themes will be explored within a framework which progresses from a focus on individual experience to the broader analysis of immediate educational contexts. These themes are: social situation; styles of management/leadership; notions of relevant knowledge; observation and analysis of contemporary educational practice.  
**Co-requisite:** LEP410  
**Credit Points:** 9      **Contact Hours:** 3 per week

#### ■ CPP411 UNDERSTANDING EDUCATION B

The subject broadens the focus of CPP410 to include a wider social, economic, political and cultural context. It then looks at the goal of articulating an appropriate educational philosophy and putting it into practice. Main themes are: images of schooling and the teaching profession; articulating a philosophy of teaching and responding to popular concepts and misconceptions of that role. Observation of contemporary educational practice runs concurrently with these themes.  
**Prerequisite:** CPP410      **Co-requisite:** LEP411  
**Credit Points:** 9      **Contact Hours:** 3 per week

**■ CPP420 ABORIGINAL EDUCATION CURRICULUM & TEACHING STUDIES C**

This Curriculum C subject provides opportunities for students with an appropriate background to prepare to teach Aboriginal education. It develops skills and understandings in planning, assessment, teaching and learning strategies, and builds on the general principles of the Curriculum A and B groups of subjects.

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ CPP431 THE SOCIOCULTURAL CONTEXT OF CONTEMPORARY EDUCATIONAL ISSUES & PRACTICE**

Socially constructed realities of educational processes; the professional and community convergence in educational experience; cultural and economic reproduction in education; ethnic and race concerns in education; equity in and through education; common and selective curricula; the centrality of curricula to school and community; long-term philosophy of teaching based on experience and reflection.

**Credit Points:** 8      **Contact Hours:** 4 per week

**■ CPP500 SOCIOCULTURAL ISSUES IN EDUCATION**

Examination of structural and organisational 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

**■ 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 database organisation and the inter-relationship between these facts. The emphasis of the course is on demystifying computers; the student will gain an understanding of the abilities of computers and, in particular, their role in health science.

**Credit Points:** 8      **Contact Hours:** 2 per week

**■ CSB010 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

**■ CSB011 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

**■ CSB012 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

**■ CSB013 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:** CSB010, CSB011

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ CSB015 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:** CSB011

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ CSB017 SOFTWARE ENGINEERING**

Specification methods; modular programming techniques; language support for modular programming; debugging techniques.

**Prerequisites:** CSB011, ISB019

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ CSB018 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:** ISB095 or ISB014

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ CSB087 PROGRAMMING LANGUAGES**

Further software development; techniques of program development; top-down design and modularity; computer programming using other appropriate languages. (Incompatible with CSB013 and CSB015.)

**Prerequisite:** ISB095

**Credit Points:** 12      **Contact Hours:** 4 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 1**

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:** 12      **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:** 4 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 1

The study of abstraction: data abstraction as a technique for dealing with complex data inter-relationships, and procedural abstraction as a way of expressing complex operations on such structures; 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 2

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 2

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; recursion and iteration; algorithms; space and time requirements.

**Prerequisite:** CSB110

**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; advanced data structures and algorithm design.

**Prerequisite:** CSB200

**Credit Points:** 9      **Contact Hours:** 3 per week

## ■ CSB213 SCIENTIFIC APPLICATIONS

Provides students with a thorough knowledge of C, and teaches the solving of advanced scientific (eg. mathematical and engineering) problems.

**Prerequisite:** CSB110

**Credit Points:** 9      **Contact Hours:** 3 per week

## ■ CSB263 COMPUTING

A basic understanding of computer programming; simple applications in the BASIC language. Topics include: computer utilisation; computer organisation; hardware; software; data organisation; information storage retrieval; computer systems; programming in BASIC; problem solving; analysis of numerical and non-numerical problems; brief introduction to FORTRAN; use of WordPerfect, VP Planner and dBase III Plus.

**Credit Points:** 12      **Contact Hours:** 3 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; mathematical software.

**Prerequisite:** CSB155

**Credit Points:** 12      **Contact Hours:** 3 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 2

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; 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.

**Prerequisite:** CSB213 or CSP213 or CSB283

**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; 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

### ■ 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 C and UNIX.

**Prerequisite:** CSB181

**Credit Points:** 6      **Contact Hours:** 3 per week

### ■ CSB860 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

### ■ CSB862 COMPUTATIONAL & MATHEMATICAL FOUNDATIONS

Fundamental structures and operations; set theory; algorithms, model building, problem solving and computer implementation.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ CSB864 PROGRAMMING PRINCIPLES

The development of computer software; data and procedural abstraction; modular programming, step-wise refinement and bottom-up techniques.

**Prerequisite:** CSB860

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ CSB866 ARTIFICIAL INTELLIGENCE

Artificial intelligence as a discipline; philosophical issues, knowledge representation, reasoning and heuristic methods used in AI; introduction to AI programming.

**Prerequisites:** CSB860, CSB862

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ CSB875 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:** CSB860, CSB862 and ISB863

**Credit Points:** 10      **Contact Hours:** 3 per week

### ■ CSB960 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

### ■ CSB970 PROJECT WORK

The first half of an optional year-long project taken in conjunction with CSB960 on the approval of the

course coordinator. 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

#### ■ CSB980 PROJECT (IF22)

Students in IF22 only, 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.

**Co-requisites:** This subject must be done in the final year of the course.

**Credit Points:** 30

#### ■ CSN100 THEORY OF COMPUTING 1

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

#### ■ CSN201 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

#### ■ CSN202 HONOURS PROJECT

This is a continuation and completion of the research project initiated for CSN201.

**Prerequisite:** CSN201

**Credit Points:** 12

#### ■ 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, CSB311

**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 2

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

#### ■ CSN301 MINOR PROJECT

#### ■ CSN302 MINOR PROJECT

#### ■ CSN303 MINOR PROJECT

#### ■ CSN304 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

#### ■ 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.

**Prerequisite:** ITN502

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ CSN330 NATURAL LANGUAGE PROCESSING

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 architecture.

**Prerequisite:** CSN110

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ CSN350 ADVANCED GRAPHICS 1

Advanced level extension of the material in the undergraduate curriculum; the use of facilities provided by existing graphics systems.

**Prerequisite:** CSB321

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ CSN360 ADVANCED GRAPHICS 2

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

### ■ CSN380 NEURAL NETWORKS

The subject discusses the purpose, scope, and history of neurocomputing. It explores various models of artificial neurons and a number of learning rules for supervised and unsupervised learning. Pattern classifiers, associative and auto associative neural network arrays are treated.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ CSN400 MAJOR PROJECT – PART 1

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

### ■ CSN450 MAJOR PROJECT – PART 2

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 CSN400.

**Prerequisite:** CSN400

**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.

**Prerequisite:** 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.

**Co-requisite:** 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.

**Prerequisite:** CSP112

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ CSP837 STRUCTURED PROGRAMMING

Extends the programming concepts introduced in MDP501; advanced topics in programming: functions; data abstraction; recursion, pointers; use of programming tool boxes.

**Prerequisite:** MDP501

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ CSP842 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:** MDP501 and CSP837

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ CSP843 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:** MDP501

**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

### ■ 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

### ■ CST390 COMPUTER PROGRAMMING 1

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

### ■ CSX025 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

#### ■ CSX028 COMPUTER LANGUAGES

Advanced programming concepts and structures; further algorithm development; testing and debugging; inspection and walkthroughs; practical computer programming using appropriate languages.  
**Prerequisite:** CSX025

**Credit Points:** 12      **Contact Hours:** 4 per week

#### ■ CSX030 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:** CSX025

**Credit Points:** 12      **Contact Hours:** 4 per week

#### ■ CSX031 SOFTWARE DEVELOPMENT

Introduction to commercial software engineering; structured design, development and testing techniques; advanced COBOL programming; data base programming.  
**Prerequisite:** ISX026

**Credit Points:** 12      **Contact Hours:** 4 per week

#### ■ CSX035 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

#### ■ CUB101 ALTERNATIVE EDUCATION

Problems confronting conventional schooling; various modes of alternative educational which are available in early childhood education.  
**Credit Points:** 8      **Contact Hours:** 2 per week

#### ■ CUB102 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 administration practices.  
**Credit Points:** 8      **Contact Hours:** 2 per week

#### ■ CUB210 INTRODUCTION TO EDUCATION

Introduction to teaching as a profession; distinguishing characteristics of particular educational settings; key practices associated with particular educational provisions; relationships with other professions and society; range of educational contexts; teaching in contemporary society. The nature of teaching: historical perspectives; qualities of teachers; relationships with children, parents and the community; service orientation; decision making. The teacher as observer and communicator: developing skills of observing, recording, interpreting and analysing; understanding the nature of interactions in a variety of educational settings; developing skills of effective communication. Reflecting on experiences: the meaning of being a reflective practitioner.  
**Credit Points:** 20      **Contact Hours:** 4 per week

#### ■ CUB211 TEACHING AS MANAGING LEARNING

Examination of the principles, procedures and implications of decision-making related to: the management of instruction; programs and evaluation; people; material and non-material resources; and classroom environments.  
**Prerequisite:** CUB210

**Credit Points:** 8      **Contact Hours:** 3 per week

#### ■ CUB212 TEACHERS AS CURRICULUM DECISION MAKERS

Analysis of state policies and curriculum frameworks to gain an understanding of the responsibility which teachers are expected to take with respect to curriculum development and school community involvement. Ways in which literature deals with curriculum decision-making. The social and political nature of curriculum decision making. The role of parents and other members of the wider community in curriculum decision-making and the development of skills necessary to facilitate a collaborative approach to curriculum and school development.  
**Prerequisite:** CUB211

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ CUB280 EQUITY AS A CURRICULUM ISSUE

The notion of equity and development of principles whereby equity underpins teaching and curriculum planning. An understanding of the inclusive curriculum and specific strategies for planning and implementing the inclusive curriculum. Analysis of the specific needs and circumstances arising from gender, cultural background, disability and socio-economic background.  
**Credit Points:** 8      **Contact Hours:** 3 per week

#### ■ CUB281 NEGOTIATED STUDY IN TEACHING

Students identify a particular area within the teaching role which they would like to explore in more depth. This may be related to the career pathway they plan to take or the teaching and curriculum implications of a particular problem or specific teaching context in which they are interested. The lecturer determines if the student has the necessary prerequisite knowledge and skills to pursue the topic and determines a suitable program of reading. The lecturer meets with the student on a regular basis to discuss progress. The negotiated study may take the form of an investigative study within a particular school context.  
**Credit Points:** 8      **Contact Hours:** 3 per week

#### ■ CUB282 MANAGING EXCEPTIONAL CHILDREN

Teachers need to develop approaches, strategies, programs and modifications to develop an inclusive curriculum which enhances learning and fosters the abilities for all children. This subject is designed to refine education students' theories and practices related to the management of the diverse range of children found within the primary classroom. The focus of the subject is to provide an understanding of the range of exceptional children as well as develop essential knowledge and practices in classroom organisation, student motivation, curriculum modification processes and classroom management.  
**Prerequisite:** CUB212

**Credit Points:** 8      **Contact Hours:** 2 per week

### ■ CUB301 INTRODUCTION TO CURRICULUM & TEACHING STUDIES

Integrates understandings derived in foundation Studies in Education subjects to develop a reasoned and contextually responsive framework for teaching. Considers communication and teaching skills and strategies in interactive teaching/learning settings and provides opportunities for observation, practice and critical reflection. Focuses attention particularly on the notion that teaching is about the facilitation of student learning.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ CUB302 TEACHERS & SCHOOL PROGRAMS

Extends principles of professional practice established in Curriculum and Teaching Studies 1. Facilitates general studies of curriculum development and teacher decision making, with applied curriculum-area studies to follow in Curriculum and Teaching Studies 2. Gives emphasis to teaching in its broader contexts, encourages further development of a critically reflective approach to teaching and assists with the transition to beginning teaching.

**Prerequisite:** Curriculum and Teaching Studies 1

**Co-requisites:** Curriculum and Teaching Studies 2, EDB302

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ CUB320 EDUCATION, LAW & THE BEGINNING TEACHER

Legal literacy and education; sources of education law; legislative and common law; students' rights and responsibilities; students, schools and law; parents and their legal responsibilities in relation to education; teachers rights and duties; teachers and school-related accidents; drugs and alcohol; discrimination and human rights procedures; education malpractice.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ CUB410 TEACHERS & THE CURRICULUM

Development of concepts and strategies essential to the processes of school-based curriculum development and the design, implementation and evaluation of relevant school programs. It relates the significance of curriculum in the broader sense to a spectrum of individual professional teaching perspectives.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ CUB411 EVALUATION IN CURRICULUM DEVELOPMENT

Students are introduced to the basic concepts of evaluation as they relate to the process of decision making in a school setting. Strategies appropriate to all school settings are considered ranging from school development to classroom teaching. Design, data gathering strategies and report writing are considered.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ CUB413 CURRICULUM, MAKING IT HAPPEN AT SCHOOL

Development of understandings and skills in implementing curriculum programs in specific school settings; indepth study of the literature and reflection on practice and experience; the practical application of specific approaches and strategies for effective curriculum implementation.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ CUB414 ADULT EDUCATION

The design and implementation of educational programs for adults. The study is based on theories

relating to adults as educational participants, the educational process and the environment in which it takes place. Emphasis is on the provision of effective adult education.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ CUB431 CLASSROOM MANAGEMENT: MODELS & PRACTICE

Practical and research-based approaches to classroom management and discipline for teachers. Includes techniques that motivate pupils in daily teaching, rule development, teaching for responsibility, dealing with parents and communication and settings for on-task behaviour and meeting student needs.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ CUB432 TEACHERS & ISOLATED LEARNERS

The isolated community; the isolated learner; consideration of various types of teaching situations in rural schools, especially small schools and distance education; teaching strategies; support services.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ CUB433 TEACHING STRATEGIES

Evaluation of the student's 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

### ■ CUB434 SUPERVISION OF TEACHING

This subject is designed to cater for teachers who wish to improve their teaching by using the process of clinical supervision. It is also designed to help teachers who supervise practice teaching, and school administrative staff, to improve their supervisory skills. The process of clinical supervision is explored and applied as a means of achieving these objectives. Students must be active supervisors.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ CUB441 INTERNATIONAL EDUCATION FIELD STUDY

The purpose of international education studies and a field study to a particular society is this subject's focus. Key questions concern social context and priorities and curricula of that society. Australian curriculum is also introduced. The subject involves an international field study – two weeks within a vacation period.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ CUB442 INTRODUCTION TO EDUCATIONAL ADMINISTRATION

Introduction to educational administration with particular reference to the theory and practice of work roles, motivation, leadership, decision making, change, conflict, needs assessment and presentation of written reports. Includes issues for administrators in various educational settings.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ CUB443 CLASSROOM ASSESSMENT PRACTICES

Examination of the nature and purposes of classroom assessment; analysis of main approaches to assessing student progress; developments in assessment practices in Queensland with particular reference to the ROSBA and Viviani reports; improving teacher-made tests; advantages and disadvantages of a wide range of test instruments used in classrooms.

**Credit Points:** 12      **Contact Hours:** 3 per week



### ■ CUB444 EDUCATORS & THE LAW

Legal literacy; sources of education law; students and rights; students' law and schools; parents' law and education; educators rights and obligations; educators and school-based accidents; educational malpractice; educational administration and law.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ CUB445 COMMUNITY RESOURCES & SCHOOL CHANGE

This subject aims to help participants to identify and develop strategies for working with a wide range of community groups. An indepth study is made both of the educational potential of different groups and ways that they can be better involved in helping schools to improve their offerings.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ CUB490 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

### ■ CUP420 PROFESSIONAL & CURRICULUM STUDIES I

Applications of planning, implementation and evaluation strategies to the teaching of expressive arts. Observe, apply and reflect upon theoretical and practical relationships with classroom instruction, control and organisation.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ CUP421 PROFESSIONAL & CURRICULUM STUDIES 2

Integration of curriculum theory, appreciation of its use in social, environmental, health studies and science in the primary school curriculum. Observation and application of curriculum theory in the primary school curriculum. Observation and application in the school setting.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ CUP500 CURRICULUM: LEARNERS 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

### ■ CUP501 CURRICULUM FOUNDATIONS

Examination of the personal and generic theories of curriculum practice, and the foundations for teachers and consultants to develop a framework for curriculum thinking and decision making which emerges from contemporary curriculum theory related to their subject specialisation.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ CUP502 CURRICULUM DEVELOPMENT & INNOVATION

The application of the curriculum development process in specialist teaching areas; the process of innovation and change appropriate for particular educational settings. Frameworks and skills for

evaluating existing programs, and the implementation and outcomes of innovation.

**Prerequisite:** CUP501

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ EAB102 HUMAN RELATIONSHIPS IN EARLY EDUCATION

Fundamentals of interpersonal communication; the self in interpersonal communication; verbal and non-verbal behaviour; listening and feedback in interpersonal communication; interpersonal relationships; and group processes.

**Credit Points:** 8      **Contact Hours:** 3 per week

### ■ EAB103 AUSTRALIAN FAMILIES & EARLY EDUCATION

Family and community analysis, historical view, economic, political, social and cultural factors; issues affecting families in Australia today employment patterns, ideology of family, effect of technological change, inequalities and social justice; personal approaches and critical reflection.

**Prerequisite:** LEB240

**Credit Points:** 8      **Contact Hours:** 2 per week

### ■ EAB104 EARLY CHILDHOOD TEACHERS & FAMILIES

Teachers in early childhood settings interacting with children and their families; examination of collaborative relationships between teachers and parents; resources to support parents; research findings on parental roles in development of young children; creating welcoming and informal atmospheres in early childhood centres; home visiting techniques; evaluating family involvement.

**Credit Points:** 8      **Contact Hours:** 2 per week

### ■ EAB105 EARLY CHILDHOOD EDUCATION CONTEXTS

Exploration of childhood services; relationships of early childhood services to Australian and overseas contexts; implication of beliefs for practice in early childhood education; the early childhood teacher as an agent for empowering parents and their children.

**Credit Points:** 8      **Contact Hours:** 2 per week

### ■ EAB111 EARLY CHILDHOOD CURRICULUM APPROACHES

Overview of integrated curriculum approaches; curriculum in the social context; developmentally-appropriate practice; developing young children's understandings of mathematics and science concepts; developing young children's language understandings and use. Focus on preschool and kindergarten contexts.

**Prerequisite:** CUB210

**Credit Points:** 12      **Contact Hours:** 3.5 per week

### ■ EAB112 INTEGRATED CURRICULUM FOR 3-5 YEAR OLDS

Total program planning and implementation in kindergarten and preschool settings; extension of pedagogical content to an advanced level; philosophy; alternative curriculum models; knowledge of child development in practical curriculum decision-making; integration across content areas; working with parents and members of the community.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ EAB113 INTEGRATED ROUTINES & LEARNING FOR UNDER 3s

Practical aspects of providing physical care and nutrition for young children; individualised quality care for young children (basic trust, bonding, attachment);

adults as responsive, sensitive, interactive partners; creating a safe, stimulating and supportive environment (space, resources, time, health and nutrition); the importance of the contribution of all adults involved with children aged birth to three years.

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ EAB121 EARLY CHILDHOOD CURRICULUM: MATHEMATICS**

Observed learning patterns used as a basis for reflection about developmentally appropriate planning for young children; selection of appropriate resources and tasks for individuals and small groups; how young children develop the concept of number; the range of learning processes to be fostered; the concept of number, traditional and new approaches to sequencing for effective learning about numbers.

**Credit Points:** 8      **Contact Hours:** 3 per week

**■ EAB122 EARLY CHILDHOOD CURRICULUM: LANGUAGE & LITERACY**

The variety of teaching and learning theories in language development and literacy education; the role of the teacher in developing classroom practices within the context of learning environments which are meaningful, purposeful and relevant; teaching strategies for promoting children's language and communication; scaffolding children's efforts to become independent and successful users of language for thinking, learning and communicating.

**Prerequisite:** EAB111

**Credit Points:** 8      **Contact Hours:** 3 per week

**■ EAB123 EARLY CHILDHOOD CURRICULUM: VISUAL ARTS**

The value of the visual arts for young children; how children develop and learn through the visual arts; learning processes which are involved in children's creative, imaginative, symbolic and fine-motor development and activity; an analysis and comparison of various art media and the way in which these are used by children; criteria for selecting art experiences and the ways in which these may be planned, sequenced, implemented and evaluated; teaching styles responsive to children; ways in which to facilitate visual arts development within children at various stages.

**Credit Points:** 8      **Contact Hours:** 3 per week

**■ EAB124 EARLY CHILDHOOD CURRICULUM: DRAMA & SOCIAL EDUCATION**

The value of play for young children, particularly in relation to self image and social understanding; using knowledge of child development and learning and observations of children to plan, implement and evaluate learning environments which focus on play, drama and social education; learning processes which are involved in children's creative, imaginative, symbolic and interactive behaviour; comparison and analysis of socio-dramatic play, experiential drama and presentational drama; principles of child-centredness; the teacher's role.

**Credit Points:** 8      **Contact Hours:** 3 per week

**■ EAB125 EARLY CHILDHOOD CURRICULUM: MUSIC & MOVEMENT**

Music and movement as a fundamental way of learning and knowing for young children; the child-centred music learning environment; experience within the creative process itself; development of sensitivity to sounds and movement, and their interaction; understanding the basic concepts of musical and movement

elements, their combination and manipulation; acquisition of the simple skills, teaching techniques and curriculum principles which allow the child to operate as a creative musician and mover; and the development of positive attitudes toward music, movement and the self.

**Credit Points:** 8      **Contact Hours:** 3 per week

**■ EAB126 EARLY CHILDHOOD CURRICULUM: SCIENCE/HEALTH EDUCATION**

The organisation of physical and interpersonal environments which support young children's natural enquiry activity in the sciences; ways in which early childhood environments can be organised to support active, enquiry learning; varied and relevant resources for the content of biological, social and physical sciences; the immediate classroom, the outdoors and the local neighbourhood and the social, cultural and physical features of these environments.

**Credit Points:** 8      **Contact Hours:** 3 per week

**■ EAB127 EARLY CHILDHOOD CURRICULUM: MATHS, SCIENCE, LITERACY**

Drawing on previous knowledge about curricula in mathematics and science to study how the teacher prepares learning environments for children in lower primary grades; using content knowledge in concert with the needs of individual children in culturally relevant ways; development of learning centres and associated methods characteristic of environments that foster active, enquiry learning. Programming for teaching/learning environments; the role of language in learning; developing language in all curriculum areas in the lower primary classroom; evaluation of programs and assessment and reporting of children's development in literacy.

**Prerequisites:** EAB121, EAB122

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ EAB141 PHYSICAL, PERCEPTUAL & MOTOR ASPECTS: B-8 YEARS**

Physical development (prenatal factors, growth patterns and changes in body systems, effects on maturation, phylogenetic and ontogenetic aspects); perceptual development: visual, auditory, tactile-haptic, kinesthetic and vestibular and the degree of sensitivity and organisation of these systems; motor development: theoretical perspectives, phases and patterns, factors affecting development, implications for programming and instruction; observation techniques: observing, recording, analysing, applying.

**Credit Points:** 8      **Contact Hours:** 2 per week

**■ EAB142 LANGUAGE & COGNITIVE ASPECTS: B-8 YEARS**

Part A: Theories of language development; language and cognitive development; early syntax and the development of speech and morphology; functions of children's language and communication; communication with children. Part B: Broad theoretical/historical/definition overview on cognition and cognitive development; knowledge and how it arises and grows; how knowledge is maintained; generalisation and differentiation of knowledge; making cognitive connections; the role of experience/environment/culture and maturation/heredity in cognitive development.

**Credit Points:** 8      **Contact Hours:** 2 per week

**■ EAB143 SOCIAL, EMOTIONAL & CREATIVE ASPECTS: B-8 YEARS**

Theories of social, emotional and creative development and their application; theoretical and empirical

approaches to the study of creativity and self-expression from birth to eight years; the nature of creativity and its relationship to other areas of development; children's recognition and production of emotions, processes involved in the socialisation of emotions; sex differences and contextual influences on development; individuality self-knowledge and the development of personal identity; socialisation in the context of relationships, in particular, those within the family, the peer context and the classroom.

**Credit Points:** 8      **Contact Hours:** 2 per week

#### ■ EAB144 INTEGRATING THE EXCEPTIONAL CHILD IN EARLY CHILDHOOD

Foundations for least restrictive early education; philosophical and policy issues; integrating early intervention; nature of exceptionalities; methods for meeting special needs; team work with support personnel; interpretation and evaluation of individualised programs and teaching strategies; management of behaviour; family dynamics and parental needs.

**Credit Points:** 8      **Contact Hours:** 2 per week

#### ■ EAB151 TEACHING STRATEGIES 1: BEFORE-SCHOOL SETTINGS

Understanding the planning-implementing-evaluating cycle; managing learning environments; facilitating children's development, learning through the physical environment and the human environment; strategies to support children's exploration, problem solving and communication. Twelve days teaching experience in a child care, kindergarten or preschool setting.

**Prerequisite:** CUB210

**Credit Points:** 12      **Contact Hours:** 2 per week

#### ■ EAB152 TEACHING STRATEGIES 2: YEARS 1-3

Understanding the primary school; planning, implementing and evaluating the curriculum in the early primary years; becoming familiar with current syllabus documents; responding to individual children and monitoring their progress; organisation for learning; reflecting and commenting on a personal teaching style. Twelve days practice teaching experience in an early primary setting.

**Prerequisite:** EAB151

**Credit Points:** 12      **Contact Hours:** 2 per week

#### ■ EAB153 TEACHING STRATEGIES 3

Discussion and study of a range of themes and issues relevant to working with young children in learning environments for 3 to 5-year-old children; role of the teacher, environments and interactions; introduction to programming; negotiation approach to allow students to form their studies in a selected context of early childhood education and care. Twenty-four days in two of three settings: child care, kindergarten or preschool.

**Prerequisite:** EAB152

**Credit Points:** 12      **Contact Hours:** 2 per week

#### ■ EAB154 TEACHING STRATEGIES 4: CHILD CARE

Monitoring and reporting on children's progress; managing children's behaviour; developing a personal philosophy; integrating across content areas; advanced data gathering techniques for teachers. A negotiation approach allows students to focus their studies in the selected context of early childhood

education of child care. Eighteen days teaching practice in a child care centre.

**Prerequisite:** EAB153

**Credit Points:** 12      **Contact Hours:** 2 per week

#### ■ EAB155 TEACHING STRATEGIES 4: KINDERGARTEN/PRESCHOOL

Monitoring and reporting on children's progress; managing children's behaviour; developing a personal philosophy; integrating across content areas; advanced data gathering techniques for teachers. A negotiation approach allows students to focus their studies in the selected context of early childhood education of kindergarten. Eighteen days teaching practice in a child care centre.

**Prerequisite:** EAB153

**Credit Points:** 12      **Contact Hours:** 2 per week

#### ■ EAB156 TEACHING STRATEGIES 4: YEARS 1-3

Monitoring and reporting on children's progress; managing children's behaviour; developing a personal philosophy; integrating across content areas; advanced data gathering techniques for teachers. A negotiation approach allows students to focus their studies in the selected context of early childhood education of P-3. Eighteen days practice in an early primary school setting.

**Prerequisite:** EAB153

**Credit Points:** 12      **Contact Hours:** 2 per week

#### ■ EAB157 TEACHING STRATEGIES 5

Preparing for a teaching career; teacher as professional practitioner; ethical and legal issues; administration and leadership; career paths in early childhood education; advocacy; government policies for families and education; common and specialised studies across the full range of early childhood education and care services. Twenty days teaching practice in a child care, kindergarten, preschool or years 1-3 setting.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ EAB160 ESL IN EARLY CHILDHOOD SETTINGS

The nature and functions of language; 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:** 8      **Contact Hours:** 2 per week

#### ■ EAB161 CULTURAL INCLUSIVITY IN EARLY CHILDHOOD

Aspects of diverse disciplines and the emergent common principles, aims, objectives and practices that enhance the development of the professional; culturally inclusive practices; cultural bias; criteria for evaluating resources and curricula; the range of theory that cultural inclusivity takes into account across the disciplines: sociology, multicultural studies, aboriginal studies, gender studies and early childhood education and history.

**Credit Points:** 8      **Contact Hours:** 2 per week

#### ■ EAB162 EDUCATION FOR TRANSFORMATION – EC TEACHERS

What society values as important knowledge for all humans; how these values are expressed and reflected in parental and teacher practices in the early years of a child's life; the forces, beliefs and practices in society and school which cause teachers and students

to feel alone, worthless and powerless; vital philosophical, social and practical knowledge for human welfare; how teachers can encourage transformation through curriculum development and interpersonal school and classroom interaction.

**Credit Points:** 8      **Contact Hours:** 2 per week

#### ■ **EAB163 GRAPHIC MEDIA FOR EC TEACHERS**

The planning, production and teaching uses of a range of graphic visual media with emphasis on the skills involved in the production of handouts, newsletters, laminated board games, charts and displays; the planning and production of a range of these resources; specific skills in the selection of resources for specific situations; layout, lettering, cut and paste techniques, incorporation of photographic materials, and the operation of appropriate mechanical devices including copiers, duplicators and computers. Assessment is through evaluation of work produced during the semester.

**Credit Points:** 4      **Contact Hours:** 2 per week

#### ■ **EAB164 EARLY CHILDHOOD CHORAL & PERCUSSION ENSEMBLE**

Development of choral singing and percussion playing skills relevant to both recreational and classroom situations; application of Orff philosophies, techniques and tools; some development of musical literacy.

**Credit Points:** 4      **Contact Hours:** 2 per week

#### ■ **EAB165 PROGRAMS FOR CHILDREN UNDER THREE YEARS**

Societal attitudes and public policy in the care and education of children under three years of age, historically and cross-culturally; research supporting the importance of infancy in influencing later development; centre-based and family day care programs for infants and toddlers in Australia and overseas; the functioning of parent-child centres and playgroups in which participation of parents, their families and toddlers occurs; programs which aim to identify and help overcome physical, emotional, intellectual and socio-economic handicapping circumstances.

**Credit Points:** 8      **Contact Hours:** 3 per week

#### ■ **EAB166 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, evaluating outcomes of programs including those for isolated children, socially disadvantaged children and culturally different children.

**Credit Points:** 4      **Contact Hours:** 3 per week

#### ■ **EAB167 CHILDREN'S LITERATURE FOR EARLY CHILDHOOD SETTINGS**

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; acquisition of skills of selection for use in early childhood settings; planning quality long-term literature programs for children in early childhood settings.

**Credit Points:** 8      **Contact Hours:** 3 per week

#### ■ **EAB168 DRAMA FOR 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:** 8      **Contact Hours:** 2 per week

#### ■ **EAB169 CHILD CARE POLICIES**

Rights and responsibilities of parents and the community in child rearing; past and current factors affecting child rearing needs within society; overview of the political and economic influences on child care in the past; current policies, regulations, funding sources and issues of quality; factors influencing high quality care, such as staffing, building and furnishings.

**Credit Points:** 4      **Contact Hours:** 2 per week

#### ■ **EAB170 MICROCOMPUTERS IN EARLY EDUCATION**

The possibilities of using microcomputer technology with young children; skills and methods of working with young children and computers; developing individual programs that are appropriate for young children.

**Credit Points:** 8      **Contact Hours:** 2 per week

#### ■ **EAB171 MANAGEMENT OF EARLY CHILDHOOD SERVICES**

General management theory and practice; organisation and leadership styles; management of various early childhood services; setting policies and planning for services; completing financial matters; implementing day to day tasks and operations; managing and working with people; considering ethical issues and conduct; working outside early childhood services; advocating for early childhood.

**Prerequisite:** CUB210, EAB111

**Credit Points:** 4      **Contact Hours:** 2 per week

#### ■ **EAB172 PARENT-PROFESSIONAL RELATIONSHIPS IN EC SETTINGS**

Philosophy, principles and practices in a number of models of parent-professional interactions; examination of needs, roles, relationships and results of some exemplary programs; examination of specific local parent-professional programs (framing questions, carrying out enquiries) on the aims, functioning and outcomes of local programs involving parents and professionals.

**Prerequisite:** EAB104

**Credit Points:** 8      **Contact Hours:** 2 per week

#### ■ **EAB174 PROJECTED VISUAL MEDIA IN EC SETTINGS**

The production and teaching use of projected media with emphasis on slide/filmstrip resources and overhead projection; planning and producing a range of these resources; specific skills in determining appropriate resources for specific situations; planning procedures and production techniques, foiling, titling, incorporation of graphic images and overlays; mechanical reproduction techniques including photo and thermal copiers. Assessment is through self evaluation of work produced during the semester.

**Credit Points:** 4      **Contact Hours:** 2 per week

#### ■ **EAB175 EARLY CHILDHOOD NUTRITION PLANNING**

Nutrition policies for early childhood services; management of health and nutrition components within early childhood services; planning early childhood health and food education for children and staff.

**Credit Points:** 4      **Contact Hours:** 2 per week

#### ■ **EAB176 MEDIA FOR EARLY CHILDHOOD TEACHERS**

Examination of 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:** 8      **Contact Hours:** 2 per week

**EAB180 DANCE EDUCATION FOR YOUNG CHILDREN**

Study of alignment and physiology of young bodies; increasing movement awareness for children through games and simple dance structures.

**Credit Points:** 8      **Contact Hours:** 2 per week

**EAB181 TECHNOLOGY IN EARLY CHILDHOOD CONTEXTS**

A school-based elective involving work with young children in small groups with calculators, computers and other technology.

**Credit Points:** 8      **Contact Hours:** 4 per week

**EAB182 KEYBOARD MUSICIANSHIP 1 & 2 (EC)**

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. Required performance/theory background. Continues into second semester.

**Credit Points:** 8      **Contact Hours:** 2 per week

**EAB280 EARLY CHILDHOOD 1**

Examination of historical trends in both Europe and America which have affected early educational trends. Investigation of educational changes and dilemmas and the impact of other disciplines on early education such as medicine and psychology. Recurrent themes of early childhood education are examined in the context of the types of programs now offered to young children.

**Credit Points:** 8      **Contact Hours:** 3 per week

**EAB281 EARLY CHILDHOOD 2**

Combination of the theoretical underpinnings of child growth and development in a range of interdisciplinary settings for children from three to eight years with the practical application of a child study. This subject provides the students with the opportunity to develop skills as observers in a range of settings in order to see and record what is happening as accurately and objectively as possible to increase their understanding of child behaviour and development. This subject provides the opportunity to interpret the observational data in a range of educational settings.

**Prerequisite:** LEB241

**Credit Points:** 12      **Contact Hours:** 3 per week

**EAB282 EARLY CHILDHOOD 3**

In this subject student teachers compare and contrast similarities and differences in early childhood environments with teaching in other educational environments. The teacher's role in the classroom and outside the classroom is explored. Students are encouraged to examine their own personal qualities through self-awareness activities and to confront their attitudes and biases as they explore teaching practices that are developmentally appropriate. Students draw on concepts from psychology and sociology in undertaking these tasks.

**Prerequisite:** EAB281

**Credit Points:** 12      **Contact Hours:** 3 per week

**EAB283 EARLY CHILDHOOD EDUCATION**

The issue of developmentally appropriate practice in early childhood education is investigated for all areas of a child's development through an integrated approach. Appropriate curriculum planning based on

teacher's observations and recordings of each child's special interests and developmental progress. Curriculum planning as an interactive process is a focus of the subject.

**Prerequisite:** CUB211

**Credit Points:** 8      **Contact Hours:** 3 per week

**EAB410 EARLY EDUCATION: DECIDING THE CURRICULUM**

Examination of the curriculum decision-making processes promoted and in use among teachers working in early childhood settings such as kindergartens, child care and schools. Students have an opportunity to reflect on, and seek to improve, personal ability to decide the curriculum for young learners.

**Credit Points:** 12      **Contact Hours:** 3 per week

**EAB411 EARLY EDUCATION: LITERACY**

A study of current understandings about the nature of literacy, literacy development in early childhood and the ways in which this development can be fostered both within the home and at a range of educational and care settings. The broad topic areas addressed comprise language foundations, processes and patterns of development, the classroom context and program development. Students are expected to build on their preservice studies in the area of language and literacy development and learning.

**Credit Points:** 12      **Contact Hours:** 3 per week

**EAB440 WORKING WITH PARENTS & THE 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

**EAB441 EARLY EDUCATION DEVELOPMENT & LEARNING**

Ecological orientation of child development; forces shaping the development of children from birth to eight years of age; analysis of the psychosocial and cultural perspectives of development and learning in the early childhood years; and ecological analysis of early childhood settings impacting on children's development and learning.

**Credit Points:** 12      **Contact Hours:** 3 per week

**EAB501 ADVANCED CHILD CARE 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:** 16

**EAB502 ADVANCED 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:** 16

■ **EAB503 TEACHING STRATEGIES FOR CHILD CARE**

Understanding the planning-implementing-evaluating cycle; managing learning environments; the teaching/caring role; facilitating children's development and learning through the human environment; dimensions of curriculum decision-making; adult/adult and adult/child interactions; teacher as a professional.

Credit Points: 16

■ **EAB504 PROGRAMS & TEACHING STRATEGIES FOR CHILDREN UNDER THREE YEARS**

Facilitating children's development and learning through the physical environment; mathematics and science concepts in the learning environment; physical care, education and nutrition for infants and toddlers; creating a safe, stimulating and supportive environment for learning; day care programs for infants and toddlers in Australia and overseas; parent-infant programs; policies and trends.

Credit Points: 16

■ **EAB505 LEARNING TEACHING & INTEGRATED CURRICULUM FOR 3-5 YEARS**

Language and cognitive development; communication with children; early mathematics and science concepts, making cognitive connections; total program planning implementation and evaluation; integration across content areas involving parents and community.

Credit Points: 16

■ **EAB506 FIELD PROJECT (CHILDREN 0-5 YEARS)**

Observations, analysis and implementation of the teaching and management program; teaching file of recorded observations, summaries, records, organisation strategies and evaluated plans; provision of a safe, caring and challenging learning environment; competency in leadership and responsibility.

Credit Points: 16

■ **EAB507 EARLY CHILDHOOD LEADERSHIP & MANAGEMENT IN THE SOCIOCULTURAL CONTEXT**

Administration and management of early childhood services; becoming and being a leader; leadership styles; managing people; professional issues; selection of personnel; outcomes for children and families; management theory and practice; program administration; financial matters; features of comprehensive programs, their planning and communication.

Credit Points: 16

■ **EAB508 FIELD PROJECT (CHILDREN 0-12 YEARS)**

Analysis of a significant social, political or curriculum issue affecting the delivery of a child care and education service; teaching file of recorded observations, summaries, relevant centre records, management and teaching strategies, community resources, parent and staff communications, evaluated plans; competence in providing a safe caring learning environment which reflects the cultural and social backgrounds of the children; competence in leadership and responsibility for the total program for a period of time.

Credit Points: 16

■ **EAN601 EARLY CHILDHOOD CURRICULUM: DESIGN ISSUES**

Key concepts and themes in the development of early childhood curriculum; processes associated with decision making of early childhood teachers; critical analysis of early childhood curriculum theorising; examination of research methods used to study curriculum and teacher's application of knowledge bases.

Credit Points: 12

Contact Hours: 3 per week

■ **EAN602 EARLY CHILDHOOD SERVICES & POLICIES**

Analysis of early childhood services from a social, political and cultural context; knowledge of the range of early childhood services for families and children in contemporary Australia; key issues affecting the development of these services, critical analysis of current policies.

Credit Points: 12

Contact Hours: 3 per week

■ **EAN603 RESEARCH SEMINAR IN EARLY CHILDHOOD ISSUES**

Development of skills for critical evaluation of research in early childhood issues; knowledge of methodological approaches; skills for a pilot study or review of selected research issues in early childhood; critical discussion of implications of research for early childhood education; knowledge of broad research issues regarding child development, family, education and care contexts and interventions.

Credit Points: 12

Contact Hours: 3 per week

■ **EAN604 YOUNG CHILDREN, FAMILIES & COMMUNITY**

Analysis of the interactions between children, families and the wider social and cultural community in the past, present and future; key issues facing families within community contexts; application of research findings to the analysis of transactions involving children, families and community; aspects of family diversity (class, ethnicity, structure); professionals and families.

Credit Points: 12

Contact Hours: 3 per week

■ **EAP410 SOCIAL, EMOTIONAL & PHYSICAL DEVELOPMENT (0-9)**

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

■ **EAP411 CREATIVITY & LANGUAGE 1**

Developmental processes in the expressive and language arts; principles of learning; the development of personal identity in young children; creative and expressive processes; teaching-learning approaches and processes; teaching-learning approaches and strategies for language and literacy in early childhood programs.

Credit Points: 8

Contact Hours: 3 per week

■ **EAP412 THINKING & PROBLEM SOLVING 1**

The processes of interest in active learning, enquiry and problem solving; environments and strategies which promote the development of active learning and enquiry by young children; monitoring individual progress.

Credit Points: 8

Contact Hours: 3 per week

### ■ EAP413 PROGRAM PLANNING & TEACHING STRATEGIES 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

### ■ EAP414 SOCIOCULTURAL CONTEXTS OF EDUCATION

The social context of education; social inter-relationships which define this context; the impact of diversity in family structures; child rearing patterns; alterations to family roles; educational practices which respond to sociocultural contexts.

**Credit Points:** 8      **Contact Hours:** 3 per week

### ■ EAP415 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

### ■ EAP416 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 in the development of language and literacy programs.

**Credit Points:** 8      **Contact Hours:** 3 per week

### ■ EAP417 THINKING & PROBLEM SOLVING 2

The child as explorer, problem solver and meaning maker; organising for active learning, enquiry and problem solving; linking home and early childhood educational environments.

**Credit Points:** 8      **Contact Hours:** 3 per week

### ■ EAP418 PROGRAM PLANNING & TEACHING STRATEGIES 2

Continuation of EAP417.

**Prerequisite:** EAP413

**Credit Points:** 8      **Contact Hours:** 3 per week

### ■ EAP419 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

### ■ EAP520 EARLY CHILDHOOD DEVELOPMENT & LEARNING

Examination of techniques for observing and analysing child behaviour; overview of major theories of development and learning; cognitive, social/emotional, language, physical development and learning in children 2-9 years.

**Credit Points:** 8

### ■ EAP521 EARLY CHILDHOOD EDUCATION 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:** 12

### ■ EAP522 EARLY CHILDHOOD EDUCATION 2

Examination of teaching strategies, incorporating problem solving through exploration and investigation, for studying mathematics, science, social studies and health curriculum. The emphasis is on approaches and suitable materials for these curriculum areas within various early childhood settings.

**Credit Points:** 12

### ■ EAP523 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:** 8

### ■ EAP524 RESEARCH IN EARLY CHILDHOOD

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:** EAP520

**Credit Points:** 8

### ■ EAP525 EARLY CHILDHOOD 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:** 12

### ■ EAP526 EARLY CHILDHOOD EDUCATION 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:** 12

### ■ EAP527 TRANSACTIONS IN EARLY CHILDHOOD EDUCATION

Examination of the implications 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:** EAP523

**Credit Points:** 8

#### ■ EAP551 DANCE EDUCATION IN EARLY CHILDHOOD

The study of movement and dance in early childhood, the influence of home and culture, the awareness of space, time, energy and body performance in the movement and dance curriculum, and the approaches which underpin philosophical and professional practice.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ EAP552 FROM PLAY TO DRAMA IN EARLY CHILDHOOD EDUCATION

An analysis of the developmental relationship that exists between children's play and drama in early childhood, children's language development through drama; and the synthesis of theories/approaches and methods in drama contexts.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ EAP553 MUSIC IN EARLY CHILDHOOD EDUCATION

Examination of the influence of home, formal learning contexts, society and culture on music education for young children; children's development and learning through music; musical elements, approaches/methods and learning contexts.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ EAP554 THE ARTISTIC PROCESS & THE VISUAL ARTS IN EARLY CHILDHOOD EDUCATION

The value of the visual arts – for culture, and for children; education versus educated, children's development and learning through the visual arts; visual arts media and curricula, philosophical and historical underpinnings.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ EDB251 PRACTICE TEACHING 1

Introduction to teaching at the classroom level. Central to the subject are carefully guided observations as preparation for the implementation of teaching/learning segments. These lesson segments are prepared for fully with assistance from the classroom supervisor. Additionally, the students are involved in assisting, where possible with the work of the classroom to obtain an overview of the class teacher's duties.

**Credit Points:** 8

#### ■ EDB252 PRACTICE TEACHING 2

The theoretical background gained from the foundational subjects in the area of learning and development and from applied curriculum areas forms the basis of the knowledge and skills applied in this subject. It is envisaged that further observation, analysis and critical reflection be fostered in students' trial of theories of teaching. Students' planning and implementation skills are carefully developed and evaluated under the supportive and collaborative teamwork of supervising teacher, principal and university supervisor.

**Prerequisite:** EDB251

**Credit Points:** 8

#### ■ EDB253 PRACTICE TEACHING 3

This school experience should challenge students to further develop and exhibit an awareness of reflective and analytic positions concerning curriculum, and teaching and learning within another context. Students should effectively be able to examine principles, procedures and implications of decision making related to management and development of instruction and class environments. Further understanding of programs and evaluation, material and non-material

resources in relation to classroom planning should assist students to be more effective managers of learning.

**Prerequisite:** EDB252

**Credit Points:** 8

#### ■ EDB254 PRACTICE TEACHING 4

During this four-week period in schools, students extend their involvement to include periods of continuous teaching. Additionally, the experience widens to encompass both the school and community domains. Wider contexts e.g. small schools are also considered appropriate venues for practical experience in this semester. Students also have the opportunity to implement the knowledge and skills gained in major study areas. Finally, other practical experiences e.g. attendance at P & C meetings is required.

**Prerequisite:** EDB253

**Credit Points:** 12

#### ■ EDB255 PRACTICE TEACHING 5

For the four-week period of school experience, students prepare the curriculum program. Selected parts of the program are implemented during weeks 1 & 2, and for the second half of the practice the full program is taught. Additionally, students involve themselves in other activities within the school and community domains. Finally, throughout the semester, other practical activities are undertaken. Practice in appropriate settings is arranged for students in major study areas.

**Prerequisite:** EDB254

**Credit Points:** 12

#### ■ EDB301 PRACTICE TEACHING 1

Twenty-one days of secondary school/teaching experiences in which observational skills and knowledge gained from discipline and professional studies are applied to planning, resourcing, implementing and evaluating short sequences of classroom activities and lessons. The program aims to develop confidence and competence in generic teaching/learning strategies, management and resource skills, interpersonal and professional relationships.

**Credit Points:** 8

#### ■ EDB302 PRACTICE TEACHING 2

Participation in a 40-day practicum that prepares students for beginning teaching in at least one secondary curriculum area. Students assume responsibility for the learning programs of 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:** 12

#### ■ EDB303 PRACTICE TEACHING 3

Twenty-day practicum aimed at upgrading and extending professional and generic teaching skills, exploring 'coal-face' innovations and current curriculum initiatives, and understanding in greater depth the school in its wider societal context. This is the final opportunity for students to develop skills so far under emphasised in their school experiences, but which are of vital importance to become reflective practitioners.

**Credit Points:** 8

#### ■ EDB440 INDEPENDENT STUDY

Self-initiated and self-directed 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, four subjects of



the BEd but must meet certain requirements laid down in the 'Independent Study Guide' available from the Faculty of Education. Application forms are also available from the Faculty of Education – telephone (07) 864 3503. Students cannot enrol in this subject without the written approval of their proposed study by the Independent Study Committee.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ EDB441 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.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ EDN600 RESEARCH METHODS IN EDUCATION

Development of an awareness and understanding of the research process for an historical, sociocultural, 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.

**Co-requisite:** EDN601

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ EDN601 MAJOR ISSUES IN EDUCATION

Three modules to identify some major issues in an education system undergoing profound change; policy module analyses the major political forces shaping the education system; learning module focuses on cognitive development and the development of human information processing; context module situates learning and education in the broader social context.

**Co-requisite:** EDN600

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ EDN602 ADVANCED SEMINARS

Opportunities for students to participate in a special subject organised around a particular interest, or a visiting expert.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ EDN603 INDEPENDENT STUDY

Opportunity to study an aspect or topic in a particular specialisation of special interest to students; working autonomously under the supervision of a lecturer.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ EDN604 DISSERTATION

Opportunity to extend and synthesise knowledge from the core and specialisation subjects in either a critical evaluation of a topic in the literature of one specialisation or the development of appropriate educational resources.

**Credit Points:** 24      **Contact Hours:** 3 per week

#### ■ EDN605 DISSERTATION

A study to synthesise and apply knowledge from the core and specialisation subjects that will focus on only one issue, involve only the necessary number of clients, and include only essential research activity.

**Credit Points:** 36      **Contact Hours:** 3 per week

#### ■ EDN606 DISSERTATION

An application of coursework theory to a literature survey, a critical analysis, an evaluation of a portion

of an educational program or the development of a curriculum package.

**Credit Points:** 48      **Contact Hours:** 3 per week

#### ■ EDP410 PRACTICE TEACHING 1

Participation in two early childhood settings for 24 days (12 days in each setting). Emphasis on observation, planning, implementing, evaluating and record-keeping.

**Credit Points:** 8

#### ■ EDP411 PRACTICE TEACHING 2

Participation in two childhood settings for 32 days (16 days in each setting). Emphasis on observation, planning, implementing, evaluating, administration, parent programs and record-keeping.

**Prerequisite:** EDP410

**Credit Points:** 8

#### ■ EDP412 PRACTICE TEACHING 1

Orientation to the primary school. Planning, implementation and lesson closure: teaching tasks of increasing complexity from micro-teaching to full-scale responsibility for planning, implementing, closing a lesson. Development of initiative and individuality in lesson and unit planning and implementation.

**Credit Points:** 8

**Contact Hours:** 4 weeks

#### ■ EDP413 PRACTICE TEACHING 2

Utilisation of knowledge gained from indepth contextual studies and curriculum and professional studies. Emphasis is given to school and community domains in preparation for beginning teaching.

**Prerequisite:** EDP412

**Credit Points:** 8

**Contact Hours:** 4 weeks

#### ■ EDP450 TEACHING PRACTICE A

This subject allows students in school settings to plan, resource, teach and evaluate single lessons in their curriculum areas to mixed ability classes. The subject also provides the opportunity for students to form valid and worthwhile reflections on the ways in which their practising schools cater for the needs of learners, from the vantage point of their own schooling, their post-compulsory education, work-related experiences and their introduction to Studies in Education and Curriculum, and Teaching Studies subjects.

**Co-requisites:** CPP410, LEP410

**Credit Points:** 6

**Contact Hours:** Four weeks block + one single day

#### ■ EDP451 TEACHING PRACTICE B

This subject is designed to be the field studies component of the second semester subjects of the course. Its broad purpose is to develop students' confidence and competence in teaching and in teaming skills to a level that will enable them to experience success in their beginning year of teaching. In contrast to EDP450, where a lesson-by-lesson approach to teaching and an awareness approach to the role of the teacher were implied, this subject aims to immerse students in teaching in as realistic a manner as practicable. They are required to assume responsibility for teaching well-planned and well-resourced units of work, in which are employed a variety of teaching strategies and classroom management skills to cater for differences in learning styles and career aspirations. Within the wider school context, opportunities will arise for the enhancement of teaming skills and professional attitudes. Students are expected to in-

volve themselves fully in the organised day-to-day activities of the school.

**Prerequisite:** EDP450

**Co-requisites:** CUP411, LEP411 under normal circumstances.

**Credit Points:** 6

**Contact Hours:** Five weeks block + four single days

### ■ EDP510 PRACTICUM IN EARLY CHILDHOOD 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:** 8

### ■ EDP511 PRACTICUM IN EARLY CHILDHOOD 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:** EDP510

**Credit Points:** 8

### ■ 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

### ■ EEB107 AERONAUTICAL INDUSTRIAL EXPERIENCE 1

Students must engage in two weeks of approved employment in the aviation industry at the end of the first semester with a view to gaining a general background in aviation; for the employment to be recognised, students must submit an industrial experience record which has been completed by both the student and the employer.

**Contact Hours:** 2 weeks

### ■ 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.

**Prerequisites:** EEB101[R]

**Credit Points:** 5

**Contact Hours:** 3 per week

### ■ EEB206 INDUSTRIAL EXPERIENCE 1

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

### ■ EEB209 ELECTRICAL ENGINEERING 2M

Introduction to the basic principles of microprocessors, microprocessor systems, electrical machines, power control and tariffs; the subject material will be presented at a basic level with heavy emphasis on practical applications.

**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. Power distribution, three phase, balanced and unbalanced loads.

**Prerequisites:** EEB202[R], EEB203[R]

**Credit Points:** 6

**Contact Hours:** 3 per week

### ■ EEB303 NETWORK THEORY 1

A detailed study of the basic theory of network analysis covering Laplace and Fourier analysis, four terminal network theory, frequency behaviour and transient response of networks.

**Prerequisites:** EEB203[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 which includes 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

### ■ EEB373 DIGITAL ELECTRONICS PRINCIPLES

Binary variables to Boolean algebra; logic functions, gates and analysis; combined logic functions; flip flops, counters, shift registers; sequential machines; realisation of sequential machinery using PROMs, GALs, etc.

**Credit Points:** 6

**Contact Hours:** 3

### ■ EEB400 ELECTRICAL POWER SYSTEMS

Introduction to electrical power systems calculations; technology of overhead lines and cables; elementary

electrical engineering economics are also introduced at this stage.

**Prerequisite:** EEB302[R]

**Credit Points:** 6      **Contact Hours:** 3 per week

### ■ EEB401 NETWORK THEORY 2

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 2

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

### ■ EEB407 AERONAUTICAL INDUSTRIAL EXPERIENCE 2

Students must engage in five weeks of approved employment in the aerospace industry at the end of the fourth semester with a view to gaining detailed experience in several aspects of aerospace industry particularly in relation to concepts peculiar to that industry; 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

### ■ EEB473 INTEGRATED CIRCUITS

The fundamental theory of operation of integrated circuits and the generalised concepts of feedback in electronic circuits; various operational amplifier configurations are analysed; oscillators and timing circuits are also studied.

**Prerequisite:** EEB471[R]

**Credit Points:** 6      **Contact Hours:** 3 per week

### ■ EEB474 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

### ■ EEB520 CONTROL ENGINEERING

Survey of measurement transducers, amplifiers, signal processors and final control elements; selection of

system components; application of micro-computers to closed-loop control; examples of closed-loop systems; system transfer function and time domain performance.

**Prerequisite:** EEB302[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

Transmission line parameters, standing voltage and travelling waves on transmission lines; introduction to protection of systems, CTs, VTs protection methods of electrical equipment.

**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

### ■ EEB580 AEROSPACE DESIGN 1

To study the environmental factors affecting the design of aerospace equipment particularly in relation to USA and Australian standards and specifications (eg US Mil Specs, FAA requirements such as FAR 23, 25 and Technical Service Orders, Australian certification requirements both civil and military); to examine in detail the operating regime for avionic equipment such as the properties of the atmosphere (temperature, pressure, humidity); design load factors for aeronautical equipment, reliability and duplication requirements.

**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 will be studied and applied to systems programming.

**Prerequisite:** EEB474[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 3

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

### ■ EEB607 AERONAUTICAL INDUSTRIAL EXPERIENCE 3

Students must engage in 5 weeks of approved employment in the aerospace industry at the end of the sixth semester with a view to gaining specific information and experience in some aspect of aerospace industry; 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 dc 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 dc 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[R]

**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

### ■ EEB680 AEROSPACE DESIGN 2

Designing for reliability as required by the aviation and aerospace industry will augment practical design assignments; assignments require that design problems be solved analytically and the results confirmed by equipment construction and practical measurement; computer-aided design, computer simulation and programming may be required.

**Prerequisites:** EEB580[R], EEB561[R], EEB400[R], EEB620[R]

**Credit Points:** 6      **Contact Hours:** 3 per week

### ■ EEB691 AERONAUTICAL COMPUTING

Suitable languages such as ADA will be used to implement embedded avionics computer systems and practical experience will be gained in the application of object-oriented software design, concurrency and distributed systems commonly used in the aerospace industry.

**Prerequisites:** CSB490, EEB472

**Credit Points:** 6      **Contact Hours:** 3 per week

### ■ EEB692 SPACE TECHNOLOGY

Review of world launch capability; spherical trigonometry; orbits and trajectories, eg. launch orbits, geostationary orbits; GPS satellite orbit requirements; gravitational fields; Lagrange points; orbital dynamics and parameters; special purpose orbits; orbit determination from tracking data; payload techniques; upper atmospheric meteorology and introduction to astronomy.

**Credit Points:** 6      **Contact Hours:** 3 per week

### ■ EEB722 FLIGHT CONTROL SYSTEMS

Principles and description of flight control systems; performance of aircraft in flight; analysis and simulation of flight control systems; cross-coupling

parameters; methods of coupling terrain following radar and other navigational aids; mechanical systems; analogue augmented systems; digital augmented systems; digital computer control relating to multiplex buses (Mil spec); artificial stability; automatic pilots during flight and landing; fibre optic control; fly-by-wire systems; use of redundancy.

**Prerequisites:** MEB551, MEB611, MEB553

**Co-requisite:** EEB947

**Credit Points:** 6 **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 COMMUNICATION

PCM quantization noise in uniform and non-uniform quantization; 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

#### ■ EEB780 AEROSPACE DESIGN 3

Practical design assignments consisting of detailed design and realisation of typical sub-systems used in all areas of the avionics industry; assignments require that design problems be solved analytically and the results confirmed by equipment construction and practical measurement; computer-aided design, computer simulation and programming may be required.

**Prerequisites:** EEB680[R], EEB602[R], EEB474[R]

**Co-requisites:** EEB790, EEB947

**Credit Points:** 6 **Contact Hours:** 3 per week

#### ■ EEB784 AEROSPACE PROJECT

An individual engineering project on a special subject. The work requires design, computing, construction and experimental work and practical testing with the submission of appropriate reports; the subject is selected from aerospace engineering and involves electronics, computing, control, communication and electrical power; it may include programming, circuit and system design.

**Credit Points:** 12 – Semester 1/15 – Semester 2

**Contact Hours:** 6-Semester 1/6-Semester 2

#### ■ EEB788 DESIGN 2

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 will be completed; the work will require, design, computing, construction, experimental work and practical testing with the submission of appropriate

reports; the subject will be selected from any area which involves electronics, computing, control, communication and educational power and may include programming, circuit and system design.

**Co-requisites:** This subject must be done in the final year of the course.

**Credit Points:** 15

#### ■ 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, and 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

#### ■ EEB841 MINING ELECTROTECHNOLOGY

Definition of hazardous locations; methods of protection of electrical equipment; intrinsically safe circuits, flameproof equipment; power supply systems in mines; planning, voltage regulation, fault levels, dynamic operation; earthing in mines; monitoring and control equipment; communications systems in mines; testing and certification of mining equipment; gas explosion testing, assessment of intrinsically safe equipment, CTI testing, temperature rise and high current testing.

**Prerequisite:** EEB531[R]

**Credit Points:** 7 **Contact Hours:** 3 per week

#### ■ EEB880 AEROSPACE DESIGN 4

Practical design assignments consisting of the realisation of complete system designs for a specific aspect of the avionics industry; assignments require that design problems be solved analytically and the results confirmed by equipment construction and practical measurement; factors such as reliability, complexity, economic considerations and system (and sub-system) optimisation; computer-aided design; computer simulation and programming may be required.

**Prerequisite:** EEB780

**Credit Points:** 7 **Contact Hours:** 3 per week

#### ■ EEB887 DESIGN 3

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],

EEB474[R], EEB400[R], EEB971[R] or EEB531[R]

**Co-requisite:** EEB968 or EEB742

**Credit Points:** 6 **Contact Hours:** 3 per week

#### ■ EEB888 DESIGN 4

System design techniques and practice in these techniques on typical electronic systems and power systems, taking into account such factors as realisability, 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 will depend 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 1

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 2

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 3

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

### ■ EEB932 AUTOMATIC FLIGHT CONTROL

Derivation of transfer functions for aircraft and missiles including affects of vibration and other perturbations on servo systems along with servo actuators and sensors; use of conventional and modern control theory to analyse and design lateral-directional stability augmentation systems and control augmentation systems; study of autopilot design for various tasks including turn coordination and automatic landing, stabilisation of aircraft and adaptive control systems.

**Prerequisites:** EEB723, MEB551, MEB611, MEB553

**Co-requisite:** EEB947

**Credit Points:** 7      **Contact Hours:** 3 per week

### ■ EEB933 COMBAT SYSTEMS

Sound generation propagation and analysis in the maritime environment; principles and application of lasers to sighting and guidance systems; principles of detection of submarines using magnetometers; infra-red propagation and its use in detection and weapons guidance; including ECM/ECCM; sonar processing; laser processing and guidance; radar guidance/sighting; gun sights; weapons control systems; IFF/transponders; command and control; magnetic anomaly detection; tactical nav systems; infra-red.

**Prerequisite:** EEB947

**Credit Points:** 7      **Contact Hours:** 3 per week

### ■ EEB934 ADVANCED COMMUNICATIONS & NAVIGATION SYSTEMS

Expansion of previous theory; develop an increased understanding of systems previously described; complex algebra required for error-correcting codes and auto-correlation and cross-correlation of pseudo-noise sequences; investigation and simulation of error-correcting communication systems; detailed investigation into modern communication systems; theory of acquisition and tracking using delay-lock and similar techniques; use of fast-fourier and parallel processing for acquisition and tracking; description and analysis of the Global Positioning System (GPS); position fixing using GPS.

**Prerequisites:** EEB561, EEB562, EEB968, EEB662

**Co-requisite:** EEB947

**Credit Points:** 7      **Contact Hours:** 3 per week

### ■ EEB935 ADVANCED SATELLITE SYSTEMS

Design of communication systems for spacecraft; spacecraft and ground stations performance; special modulation methods; coherent frequency translation modes of operation; analysis of intermodulation distortion; carrier regeneration or synchronisation and acquisition and tracking requirements; analogue and digital processing of signals in the presence of noise; factors affecting accuracy of ranging; characterisation of spacecraft components and a critical evaluation of alternative design methods; design parameters of various aerial systems; design of low-noise amplifiers; description of B-MAC television system.

**Prerequisites:** MEB692, MEB790

**Credit Points:** 7      **Contact Hours:** 3 per week

### ■ EEB947 RADAR & RADIO NAVIGATIONAL AIDS

Radar equation; theory of reception; matched filtering; principles of detection; types of radars; primary and secondary radar; surveillance; tracking; navigation; terrain-following radar; radar techniques including doppler extraction, moving target indicator, pulse compression, ranging parameter optimisation, application of matched filtering and wiener and kalman filtering; detailed and systematic study of navigational systems; microwave landing systems.

**Prerequisites:** EEB561, EEB562, EEB968, EEB662

**Credit Points:** 6      **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

### ■ EEB955 POWER ELECTRONICS APPLICATIONS

Review of power electronic switching devices; variable speed AC and DC drives; high voltage DC transmission (HVDC); standard static VAR compensators and new developments in static VAR

compensation. Uninterruptible power supplies (UPS); induction heating; high frequency switching technology in variable speed AC drives; power electronic physical layout considerations.

**Credit Points:** 7      **Contact Hours:** 3 per week

### ■ EEB961 COMMUNICATIONS 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 are introduced; pulse shaping, signal regeneration, measurement techniques and the digital coding of analogue signals are treated; such applications as digital radio systems, digital telephone and computer networks, error control in digital networks and ISDN are analysed.

**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[R]

**Credit Points:** 7      **Contact Hours:** 3 per week

### ■ EEB969 DIGITAL SPECTRAL ANALYSIS

Modern spectral estimation, parametric and non-parametric; time frequency analysis and instantaneous frequency estimation; definition and implementation of higher order spectra; application of higher order spectra to signal detection and classification.

**Prerequisite:** EEB968[R]

**Credit Points:** 7      **Contact Hours:** 3 per week

### ■ EEB971 APPLIED ELECTRONICS

Analysis of the characteristics and applications of a variety of integrated devices; particular attention is given to new products; emphasis is placed on errors and quality of design.

**Prerequisite:** EEB573[R]

**Credit Points:** 6      **Contact Hours:** 3 per week

### ■ EEB972 INTEGRATED ELECTRONIC TECHNIQUES

Study of a wide range of commercially available integrated circuits and their typical applications in industry; design rules, limitations and methods of VLSI fabrication.

**Prerequisite:** EEB573[R]

**Co-requisite:** EEB602[R]

**Credit Points:** 7      **Contact Hours:** 3 per week

### ■ EEB980 AEROSPACE LAW

Aviation law, both national and international; cargo constraints, restricted airspace, transport of people

and animals, dangerous cargoes and firearms; the division of the upper atmosphere and space; insurance considerations.

**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 high-level languages.

**Co-requisite:** EEP102

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ EEP120 NETWORKS & DISTRIBUTED COMPUTING

A thorough treatment of the ISO OSI model of computer interconnections and common techniques for layers 3 to 7; this includes protocols, software and packages and the computers which support these layers; a lighter treatment of layers 1 and 2 will also be given.

**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 in-

cludes 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:** 48      **Contact Hours:** 168 total hours

#### ■ EET100 ELECTRICAL ENGINEERING COMPUTATIONS

A 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 1

SI units, dc 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 2

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 AC circuits.

**Prerequisite:** EET111[R]

**Credit Points:** 7      **Contact Hours:** 3 per week

#### ■ EET270 ELECTRONICS 1

An introduction to the fundamentals of electronic devices and transistor circuits; emphasis is placed on characterising and applying these devices to basic electronic circuits; applications include: transistor amplifiers including differential and tuned stages, current sources, oscillators and simple fault finding techniques.

**Prerequisites:** EET111[R], EET100[R]

**Co-requisite:** EET211

**Credit Points:** 7      **Contact Hours:** 3 per week

#### ■ EET350 ELECTRICAL ENGINEERING 3

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 char-

acteristics of a range of AC and DC machines; costs of electricity tariffs.

**Prerequisite:** EET211[R]

**Credit Points:** 7      **Contact Hours:** 3 per week

#### ■ EET420 CONTROL SYSTEMS 1

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 superheter principles; digital and data transmission and fibre optics.

**Prerequisites:** EET100[R], EET211[R]

**Credit Points:** 7      **Contact Hours:** 3 per week

#### ■ EET490 COMPUTER PACKAGES

A brief study and use of packages such as word processors, spreadsheets, database packages and commonly used engineering packages such as Mathlab and Spice hardware interconnection.

**Credit Points:** 7      **Contact Hours:** 3 per week

#### ■ EET500 ELECTRICAL TECHNOLOGY

Introduction to electric motors, generators, transformers and three phase systems.

**Credit Points:** 6      **Contact Hours:** 3 per week

#### ■ EET522 CONTROL SYSTEMS 2

Process control system terminology and symbols; review of hardware as necessary; chart recorders; sizing of control valves; measurement of mass flowrate, humidity and chemical composition; analogue data transmission standards; three term controllers and other appropriate techniques; examples of process control configurations, such as cascade, ratio and feedforward control; controller tuning; system performance for reference, noise and load disturbances; accuracy, steady state errors, effect of type number on performance; stability and more advanced frequency domain analysis; machine control systems, such as DC 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 1

Areas covered include: advanced signal analysis using Fourier methods; AM generation and detection, the effects of filtering and noise; FM and PM generation and demodulation, effects of noise, FM threshold, SSB methods; phase locked loop principles; radio receiver circuits, double conversion, spurious respon-



ses; pulse analogue modulation, PAM, PWM, PPM, circuits and spectra.

**Prerequisites:** EET270[R], EET460[R]

**Credit Points:** 7      **Contact Hours:** 3 per week

### ■ EET570 ELECTRONICS 2

Integrated circuit amplifiers and their applications; other areas of study include: 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[R], EET676[R]

**Credit Points:** 7      **Contact Hours:** 3 per week

### ■ EET642 ELECTRICAL POWER SYSTEMS

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 AC 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

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-requisites:** EET270

**Credit Points:** 7      **Contact Hours:** 3 per week

### ■ EET678 APPLIED ELECTRONICS

The integrated circuit approach to electronic systems design; the subject is highly practical and utilises the basic fundamentals of ICs given in integrated circuits; further treatment of 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 2

Sampling, reconstruction, spectra; quantization, 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

### ■ EET791 COMPUTER PROGRAMMING 2

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 & PROTECTION SYSTEMS

Study 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.

**Prerequisite:** EET570[R], EET676[R]

**Credit Points:** 7      **Contact Hours:** 3 per week

#### ■ EET870 INDUSTRIAL ELECTRONICS

Study of a wide range of electronic devices and circuits associated with industrial control systems; a wide range of power switching devices and their applications are studied together with electronic measurement systems and their associated transducers.

**Prerequisite:** EET570[R]

**Credit Points:** 7      **Contact Hours:** 3 per week

#### ■ EET880 DESIGN

The main concepts of electrical designs and introduction to relevant specifications and standards; further work is in the form of design projects in which a written report must be submitted.

**Prerequisite:** 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

#### ■ EPB100 ADMINISTRATIVE THEORY

Use of political theories and models in the study of public administration: theories of democracy: individualism, pluralism, elitism, corporatism, marxism; theories of power: Clelland, Lasswell; theories of bureaucracy: Weber, Mosca, Michels, Marx; use of management theories and models in the study of public administration: classical/traditional theory; human relations theory; systems theory and structural functionalism; action theory (Harmon); Group theory (Bales' typology); administrative personality types.

**Prerequisite:** BSB102, EPB112

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ EPB101 ADVANCED ECONOMIC THEORY & POLICY

The foundations of economic thought and recent contributions to the literature of micro and macro theory and policy; their relevance for public and private decision making in the Australian context.

**Prerequisite:** EPB142 and EPB152 or one of these plus the other as a co-requisite.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ EPB102 APPLIED ECONOMETRICS A

Development of general linear model in matrix form and assumptions underlying the model; specification of models in terms of explanatory variables and functional form; econometric problems such as multicollinearity, serial correlation and heteroscedasticity; dummy variables as a proxy to qualitative and quantitative variables; simultaneous equation models and their applications.

**Prerequisite:** EPB110

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ EPB103 APPLIED ECONOMETRICS B

Single equation methods such as errors in variables, lagged variables and principle components with ap-

plications in economics; simultaneous equation methods, identification problems; estimation methods such as indirect least square, two stage least squares and three stage least squares.

**Prerequisite:** EPB102

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ EPB104 APPLIED ECONOMIC TECHNIQUES 1

Approaches to economic research; econometrics applications; single equation models for the estimation of: demand, production and cost functions and applications (eg. elasticities, returns to scale); forecasting techniques; classical, algebraic, regression, introduction to ARIMA; operations research applications; linear programming and applications: portfolio selection, marketing applications, production scheduling; transportation techniques and applications; assignment techniques for job/territory allocation; inventory management with deterministic and probabilistic demand; decision theory: developing a decision strategy; network models: CPM applications to project management

**Prerequisite:** Quantitative Methods, Introductory Statistics (Administrative Research), EPB140, EPB150

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ EPB105 ASIAN ECONOMIC DEVELOPMENT

To analyse economic change in Asia and the evolution of the Asia-Pacific region; the development of the Japanese economy post 1868; the rise of the NIC's ASEAN and South-east Asia and Japanese economic policies.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ EPB106 AUSTRALIAN ECONOMIC HISTORY

The development of the Australian economy and its economic institutions from the 1890s to World War II; analysis of post-war economic growth and fluctuations; arbitration, conciliation and wage fixation, immigration policy, capital inflow, institutional arrangements; Australia's links with the international economy; trading agreements; the contribution of manufacturing, agriculture, minerals and energy, labor, investment and technology in historical context; Australia's deteriorating economic performance since the 1970s and the opportunities presented by the development of the Pacific Basin; the future for Australia.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ EPB107 BUSINESS ECONOMIC FORECASTING

Review of deterministic forecasting models; properties of stochastic time series; concepts of stationarity and the autocorrelation function; identification of autoregressive, moving average and ARIMA models; non-linear estimation of model parameters; diagnostic checking to determine model adequacy; forecasting and adaptive forecasting with ARIMA models; seasonal ARIMA models and their application.

**Prerequisite:** EPB104, EPB102

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ EPB108 BUSINESS IN ASIA

The business and cultural environment of Japan, China, the NICs and ASEAN; the operation and management of the major Asian economies; social and institutional foundations of the economies concerned; interaction between Asia and Australia.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ EPB109 BUSINESS METHODOLOGY

Commonly used statistical techniques for handling data; central limit theorem and confidence intervals; hypothesis testing for one and two populations (both means and proportions); repertory grid analysis testing; analysis of variance; simple and multiple regression and correlation; index numbers; time series; non-parametric statistics; business forecasting. Computer work will involve SPSSX on the VAX. Students taking this subject should also have completed the bridging course in statistics.

**Prerequisite:** FNB102

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ EPB110 BUSINESS STATISTICS

Hypothesis testing (means and proportions), analysis of variance, simple and multiple regression, non-parametric methods, index numbers, time series analysis and business forecasting. (Note: Students who have not studied the Probability and Statistics Unit in secondary school are strongly advised to take the bridging course in this area offered by the School of Mathematics, and should be familiar with the statistics package.)

**Prerequisite:** FNB102

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ EPB111 COMPARATIVE ECONOMIC SYSTEMS

Rationale for the study of comparative economic systems; methods of comparison; structural dimensions as systemic factors; socio-political settings and economic systems; ideology, social relations and political institutions; socialist planning and administrative decentralisation; socialist planning and manipulative decentralisation; planning and the role of the state in the market economy; socialist economic reforms; structural change and economic development; convergence.

**Prerequisites:** EPB142, EPB152

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ EPB112 CRITICAL ANALYSIS

The anatomy of valid argument in the social sciences, analysis of a chain of arguments from premise to conclusion, examination of causes, fallacies in argument to foster a critical stance; application of these fundamentals of reasoning to organisation principles, rule making issues and the enforcement problem, strategies for change, dealing with clients and responding to rhetoric.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ EPB114 ECONOMIC DEVELOPMENT

The economies of development of the Third World; examination and application of economic principles, theories and policies to the understanding of significant real world development problems such as poverty, inequality, unemployment, debt, rural stagnation, resource depletion and sustainability. As these problems of development or underdevelopment are rooted in social and institutional causes as well as economic causes, the economic principles are combined with appropriate institutional and structural analyses to provide a better understanding of the problems.

**Prerequisites:** EPB142, EPB152

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ EPB115 ECONOMIC MODEL BUILDING

Model specification and theory formulation; investigating the model characteristics and the underlying assumptions of convexity, concavity and regularity;

theoretical appraisal of single and simultaneous equation model building and audit usefulness in pacifying and solving economic issues and problems.

**Prerequisite:** EPB142, EPB152, EPB104

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ EPB116 ECONOMIC PRINCIPLES

Economic problem and its basis scarcity; contemporary Australian microeconomics institutions; aspects of market demand, supply and elasticity; costing principles; profit maximisation; Australian market structure; price and output decisions in different market types; relevance of microeconomics for the macro economy; economic institutions in the macro economy; measurement of GDP recession and prosperity; income determination and distribution; role of the Reserve Bank; managing the external economy; integrated monetary and fiscal policies and aspects of the current economic debate.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ EPB117 ECONOMICS OF INDUSTRY

Economics of industry builds upon the foundations of the theory of the firm developed in the analytical subject EPB142. Analysis is extended to concentration measures, pricing behaviour, contestable markets, multi-product firms, control of pricing practices, the Trade Practices Act.

**Prerequisite:** EPB152

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ EPB118 ECONOMICS OF STRATEGIC MANAGEMENT

The internal structure, operation and growth of organisations with special reference to commercial institutions; 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 in internal labour markets; the reasons for the development of firms as economic institutions; and the role of the entrepreneur in decision making. (Note: This subject is not available to students who have taken and passed EPN103.)

**Prerequisite:** EPB152

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ EPB120 EUROPEAN ECONOMIC HISTORY

Reasons for Europe's economic success; emergence and spread of industry; Europe's involvement with the world economy and the evolution of the international economy from 1850: international movements of capital and technology.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ EPB121 EUROPEAN INTEGRATION

The economic history of European integration post World War II; survey and analysis of the major economies and the European institutional framework emphasis on current issues surrounding Europe 1992, the impact of changes in Eastern Europe and Australia's relationship with the new Europe.

**Prerequisites:** EPB140, EPB150

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ EPB124 GOVERNMENT

Political concepts and principles: social and economic factors in Australian politics; responsible government: Westminster principles; federalism: the Constitution, inter-governmental relations; separation of powers: parliament and the executive, judiciary, the High Court and statutory interpretation;

representation: Commonwealth electoral system, major and minor political parties, interest groups and peak organisations; role of government: public policy-making process, intervention, regulation, assistance and promotion, trend to corporatism; Australia in the international community; reform and trends (constitution, parliament, intergovernment relations, administrative, industrial, and social reforms).

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ EPB125 GOVERNMENT & BUSINESS

The political context of development: a review of major trends in Australian government policies towards business; ideology and government-business relationships: liberalism, socialism and their contemporary derivatives; intergovernment relations and business policy; the regulatory framework; the big government debate; interest representation: interest groups, political parties and processes; the trend to corporatism; taxation and welfare policies and business; government, business and the primary sector; government, business and manufacturing; government, business and the transport sector; government, business and resource development; government, business and finance; science and technology.

**Prerequisites:** EPB124 and one of EPB140 or EPB150.

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ EPB127 HISTORY OF ECONOMIC THOUGHT

Adam Smith and economic development; Malthus and the population problem; the magnificent dynamics of David Ricardo; the problem of value; Smith, Ricardo, Marx and the marginal revolution; utopian socialists and the problem of alternative organisation and industry; Marx and the critique of capitalism; planning versus the market; Lange versus Mises; Schumpeter on economic development; Rae, Veblen and Gailbraith and the problem of consumerism.

**Prerequisites:** EPB142, EPB152

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ EPB130 INTERNATIONAL ECONOMICS

Trade theory and international macroeconomics; Australia's experience in international economics with emphasis on recent events particularly after the dollar was floated in December 1983. Other topics include: theories of trade, balance of payments, Australia's export dilemma, foreign investment in Australia, GATT, OECD, commodity agreements, tariff and other barriers to trade, the spot and forward FX markets, FX risk management using futures and options, the national debt, Keynesian, monetary and rational expectations, approaches to balance of payments theories, the EC, ASEAN, the economics and monetary effects of the 1990 re-unification of Germany, international monetary reform.

**Prerequisites:** EPB142, EPB152

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ EPB131 INTERNATIONAL POLITICS & BUSINESS

Public and private enterprise: a descriptive and comparative perspective; the extent and socio-economic significance of public enterprises; the development of public enterprise: to World War I; the development of public enterprise: from World War I to present; policy and planning in public enterprise; control systems and problems; personnel policies and problems; financial policies and practices; assessing the perfor-

mance of public enterprise: models and criteria; assessing the performance of public enterprise: the literature; privatisation and the Commonwealth; State Government and privatisation; the future of state intervention.

**Prerequisite:** EPB124

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ EPB132 INTERNATIONAL TRADE & FINANCE

Australia's experience in international economics with emphasis on recent events particularly after the dollar was floated in December 1983. Particular topics dealt with include: theories of trade, balance of payments, Australia's export dilemma, foreign investment in Australia, GATT, OECD, commodity agreements, tariff and other barriers to trade, the spot and forward FX markets, FX risk management using futures and options, the national debt, Keynesian and monetary approaches to the balance of payments, the EC, ASEAN, the economics and monetary effects of the 1990 re-unification of Germany.

**Prerequisites:** EPB140, EPB150

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ EPB133 GLOBALISATION & WORLD BUSINESS

Economic conflict and competition in the international economy, new trade theorists, international monetary relations in the Pacific, conflict in agricultural product and exports, economic conflict with and within the European community, US/Japanese/Australian economic relations, the north-south dialogue, Australia as a participant in international economic conflict and cooperation.

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ EPB135 LOCAL GOVERNMENT

The nature and constitutional status of local government in Queensland; the evolution of local government legislation; community of interest concepts; determination of external boundaries; local government electoral systems in Queensland; public participation and policy formulation; professionals in local government; administrative issues; functions, the general charter, personnel resources; budgeting and finance; local government and federalism; greater local government; City of Brisbane; regional administration; local government in the UK; corporatism in local government; EARC proposals and the reform process.

**Prerequisite:** EPB124

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ EPB136 LOCAL GOVERNMENT ADMINISTRATIVE PRACTICE 1

The local authority, its constitution, committees; the Department of Housing and local government, and powers of central government; by-laws: procedure, content, and enforcement; elections and electoral procedures; the finances of the local authority; planning schemes, land use controls, procedures; planning and the Environment Court; subdivision of land, building units title and group title, artificial lakes, canals; environmental controls, types and powers, Environmental Impact Statement (EIS): the role of the local authority; Health, the Health Act and regulations; the standard bylaws (buildings, water supply and sewerage) and flammable liquids regulations; local authority meeting agenda and minutes; the Local Government Association of Queensland; a review of recent legislative action and possible future legisla-

tion. (Note: Offered in Semester 1 in odd-numbered years only.)

**Prerequisite:** EPB135

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ EPB137 LOCAL GOVERNMENT ADMINISTRATIVE PRACTICE 2

A review of the Local Government Act; miscellaneous powers and duties of local authorities; Brisbane City Council: constitutions, acts, ordinances, City of Brisbane Town Planning Act; land acquisition, and compensation; flood mitigation and land use controls in flood prone areas; town planning, dam catchment areas, the North Pine Dam study; town planning and land subdivision research project; planning and Environment Court decisions; sources of funds and financial administration generally; grants; commissions and the concept of fiscal equalisation; relationships between local authorities – Brisbane and area Water Board; relationships with State and Federal governments; consideration of selected issues based on Local Government Conference motions. (Note: Offered in Semester 2 in odd-numbered years only.)

**Prerequisite:** EPB136

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ EPB140 MACROECONOMICS

Examination of the problems associated with inflation, unemployment and the balance of payments in the context of the Australian economy; the role of the government and the central bank discussed within the framework of an income-expenditure model; international trade and capital flows.

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ EPB141 MACROECONOMIC POLICY

Recent experience with monetary and fiscal policy and the regulation of the labour market, analysing their effect on unemployment, inflation, balance of payments, foreign exchanges and international trade, consumption, savings and investment.

**Prerequisite:** EPB142

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ EPB142 MACROECONOMIC THEORY

Development of the IS-LM model in a closed and open economy; theories of consumption, investment and money; issues relating to aggregate supply; problems of unemployment, inflation, the balance of payments and economic growth; the effects of monetary and fiscal policies and supply-side economics.

**Prerequisite:** EPB140

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ EPB143 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 gain an appreciation of the strengths and weaknesses of the models.

**Credit Points:** 9 **Contact Hours:** 3 per week

#### ■ EPB144 MATHEMATICAL ECONOMIC APPLICATIONS

Classical optimisation: Lagrange's method with variables under constrained conditions; second order conditions for optimisation with Hessian Determinants, Kuhn-Tucker conditions and non-linear programming with application to theory of the firm. Integral

calculus and differential calculus with application to problems of economic dynamics: consumer's equilibrium, producer's equilibrium, input-output analysis and general equilibrium. Difference equations with applications to the theories of growth and trade cycles.

**Prerequisite:** Business Quantitative Methods, EOB194

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ EPB150 MICROECONOMICS

The nature of the economic agents: the consumer, the firm, the manager and the government; their effects on the determination of prices; the theory of consumer behaviour, the nature of demand, preference and indifference theory, the nature of supply and the operation of the market, short and long costs, market structures and factor markets.

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ EPB151 MICROECONOMIC POLICY

A methodological framework based on the tenets of welfare economics allowing the student to assess microeconomic policy in action in both the public and private sectors. It covers such issues as efficient market outcomes, market failure, the role of the government, public goods, agriculture policy, manufacturing policy, externalities and the environment.

**Prerequisite:** EPB152

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ EPB152 MICROECONOMIC THEORY

Development of the theory of consumer demand showing the dual relationship between preference and demand theory; the concept of elasticity and demand analysis; the theory of the firm through extensions into production and cost theory. Monopoly and competitive pricing behaviour and the concepts of welfare economics.

**Prerequisite:** EPB150

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ EPB153 MONETARY THEORY & POLICY

The historical evolution of contemporary monetary theories; the role of money in affecting output, inflation and the balance of payments; recent approaches to monetary policy in the Australian context; and the role of the Reserve Bank in interpreting theory and giving effect to policy.

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ EPB154 NATIONAL GOVERNMENT

The philosophical foundations, trends and reform processes across the whole spectrum of national government in Australia. Topics include: political theories and models; their relevance for Australian national government; theories of democracy: liberalism, pluralism, elitism, marxism, corporatism, socialism; constitutional framework: judicial review and division of powers; legislative processes: the contemporary committee system, scrutiny mechanisms; electoral processes: voting behaviour; public policy-making: models of public policy formulation, the budget process; public sector reforms: devolution of responsibility, the goals of improved efficiency, accountability, equity; inter-governmental relations, fiscal federalism, cooperative federalism; politics of structural reform.

**Prerequisite:** EPB124

**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ EPB155 POLICY & PROGRAM EVALUATION

The process and practice of policy and program evaluation in the public sector; the nature of evaluation and techniques evaluations of selected policies and programs. The aim is to develop a critical appreciation of the strengths and weaknesses of evaluation as an integral part of the policy process.

**Prerequisite:** EPB159

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ EPB156 POLITICAL & ADMINISTRATIVE ANALYSIS

Political theory and practice: conceptualising the problems; the liberal tradition: neo-liberalism, conservatism, liberalism and their relevance for past and present political systems; reformist and radical traditions: totalitarianism, communism, socialism and social democracy; relevance for past and present political systems; theories of power and participation: Lukes, Lindblom, Pateman; contemporary case studies; theories of the liberal-democratic state: liberalism, freedom and equality, marxism and the capitalist state, theories of the liberal-democratic state: the public choice approach; corporatism and democracy: initiatives, possibilities and problems; the limits of state power and democracy; re-evaluation of basic concepts.

**Prerequisite:** EPB100

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ EPB157 PUBLIC ENTERPRISE

Public and private enterprise; a descriptive and comparative perspective; the extent and socio-economic significance of public enterprises; the development of public enterprise: to World War I; the development of public enterprise: from World War I to date; policy and planning in public enterprise; control systems and problems; personnel policies and problems; financial policies and practices; assessing the performance of public enterprise: models and criteria; privatisation and the Commonwealth; State Government and privatisation; the future of state intervention.

**Prerequisites:** EPB124 and either EPB140 or EPB150

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ EPB158 PUBLIC FINANCE

The tools of microeconomic theory applied to public sector budgeting: the tenets of welfare economics and financing public programs; the principles of taxation, the rationale for public expenditure, the benefit principle versus user-pays principle, voting procedures and preference revelation, the free rider problem, log rolling, and the prisoner dilemma, the incidence of tax and the consumption tax versus the income tax, public sector accounting.

**Prerequisite:** EPB152

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ EPB159 PUBLIC POLICY

Models of policy: types and uses of models, cyclic and sequential models; policy formulation: issue identification and agendas, adoption; legitimisation and succession; Program design; implementation: a developing study, traditional models, implementation: Mazmanian, Van Meter and Horn models; determinants of policy: economic and political; current developments in policy theory; application of the model.

**Prerequisite:** EPB100 or for non public administration students, the completion of 8 subjects in the

relevant degree program, including an introductory government or politics subject.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ EPB160 PUBLIC SECTOR ECONOMICS

The principles of equity versus efficiency; traces developments in techniques of government resource allocation: benefit cost analysis, program budgeting and cost effectiveness; privatisation and corporatisation issues.

**Prerequisite:** EPB152

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ EPB162 REFORM & THE PUBLIC SECTOR

The development of the existing body of law, rules and regulations governing accountability; efficiency and effectiveness in the public sector through all administrative processes and levels of government, as well as the various mechanisms available for the purpose of review. The need for reform and review from early developments in administrative and political history through to contemporary developments.

**Prerequisites:** EPB112, BSB102

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ EPB163 RESEARCH & SURVEY METHODS

Australian statistical information, demographic processes, the presentation of quantitative as well as qualitative data, questionnaire construction, how to conduct surveys, sampling design, sample accuracy, sample size, confidence intervals, hypothesis testing plus an introduction to correlation, regression and time series analysis. Computer work involves SPSS-X and Statgraphics.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ EPB164 SPATIAL & REGIONAL ECONOMICS

Location theories; theories of growth and development over space; the role of cities; regional features, problems and comparative strengths; spatial networks including city systems; regional stability and volatility.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ EPB166 SPECIAL TOPIC – 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:** EPB159, EPB140 or EPB159

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ EPB167 STATE GOVERNMENT

Queensland history and political culture; major issues of Queensland politics: development, corruption, the gerrymander; Federal/State relations: constitution, finance, current issues; Parliament: structure, functions, reform; impact of the Fitzgerald Report; the Executive: Governor, Premier, Cabinet; power and change; the Public service: reform and future directions; conservative parties in Queensland; the ALP in Queensland; reform and the road to government; the electoral system, impact on parties, Electoral and Administrative Review Commission (EARC); other participants in the political process; the media and its role in the political process: the process of reform; Criminal Justice Commission (CJC) the mechanism

of appeal; police; reform of the criminal justice system.

**Prerequisite:** EPB124

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ EPB168 TRANSPORT & COMMUNICATION ECONOMICS

The application of microeconomic principles to transport and communication; location decision, demand, costs, pricing, investment principles, regulation, issues and policy.

**Prerequisite:** EPB152

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ EPB169 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

### ■ EPN101 GOVERNMENT BUSINESS RELATIONS

The nature of the relationship between government and business, especially in the Australian context; the historical development of the relationships that exist between the private and public sectors and of the impact that the policy decision of each has on the operations of the other.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ EPN102 MANAGERIAL ECONOMICS

Principles of economics pertinent to managerial decision making in an economic environment; an introduction to economics, demand analysis, cost analysis, market strategy and the macroeconomic environment; problems of resource allocation at the firm, in industry and the economy; completion of an industry study by each student, and an analysis of the Commonwealth Budget strategy.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ EPN103 ORGANISATIONAL ECONOMICS

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.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ EPN104 POLICY ANALYSIS

Government-business relationships; the formulation and implementation of policy in both government and business organisations; 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 are used as the major explanatory device, and government policies towards business as the context within which their relationships are examined.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ EPP101 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 sections 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 decisions; 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

### ■ EPX100 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:** 3 per week

### ■ EPX102 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:** 3 per week

### ■ EPX103 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

### ■ EPX104 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

### ■ 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

### ■ ESB122 EARTH SCIENCE 1

Basic geologic principles, physical geology, geomorphology, weathering, erosion, river and coastal environments, groundwater, deserts and aeolian processes. 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 interpretation of topographic and geologic maps and aerial photographs. Field excursions to local areas of geological interest.

**Credit Points:** 12      **Contact Hours:** 5 per week

### ■ ESB222 EARTH SCIENCE 2

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; palaeontology and biostratigraphy. Practical work includes stratigraphic interpretations, study of fossils, and map interpretation. Field excursions to local areas of interest.

**Prerequisite:** ESB122

**Credit Points:** 12      **Contact Hours:** 5 per week

### ■ ESB302 GEOLOGY OF THE SOUTHWEST PACIFIC

The regional geology of the SW Pacific and its tectonic framework, island arc magmatism and associated styles of mineralisation; non-living marine resources including energy sources, oceanography and meteorology, shallow marine carbonate sedimentology and the geology of the deep ocean floor. Practicals, excursions and site visits will be included.

**Prerequisites:** ESB122, ESB222

**Credit Points:** 12      **Contact Hours:** 2.5 per week

### ■ ESB312 MINERALOGY & OPTICAL MINERALOGY

Introductory crystallography; fundamentals of crystal chemistry, mineral stability and reactions; crystallisation, growth and habit of the geologic framework of minerals; classification of minerals; systematic treatment of the physical, chemical and structural properties of minerals; and techniques of mineral analysis. The theory and identification of minerals in transmitted and incident light; the introduction to mineralogy with theory of reflected light; optical properties of ore minerals and identification of minerals in thin section, polished section and grain mounts. Field excursions to sites of mineralogical interest.

**Prerequisite:** ESB122

**Credit Points:** 12      **Contact Hours:** 5 per week

### ■ ESB342 STRUCTURAL GEOLOGY

The geometry of map-scale structures. Principles of deformation: strain and rigid motion, measurements of strain in deformed rocks, deformation paths, strain rate, homogeneous and non-homogeneous strain, normal and shear stress, Mohr diagram. Deformation mechanisms: elastic and thermal expansion, plastic deformation within crystals, flow by pressure solution, compaction, stress-strain relations. Fracture and brittle behaviour: the Mohr envelope, role of cracks and fluid in the fracture of rocks, fracture experiments, effects of pre-existing fractures, fracture of anisotropic rocks, brittle-plastic transition. Classes of structures: joints: origin, surface morphology and relation to other structures; faults: normal, strike-slip, thrust and detachment faults; folds: description and classification, kink bands, chevron folds, boudinage, mechanisms and mechanics. Practical work includes a series of assignments of increasing complexity; field work involves mapping deformed terrain.

**Prerequisites:** ESB122, ESB222

**Credit Points:** 12      **Contact Hours:** 5 per week

### ■ ESB362 ECONOMIC MINERAL DEPOSITS

Mineralogy, genesis, use and value, mining methods and beneficiation of the different groups of economic materials. Major overseas deposits and Australian deposits are studied. The subject includes practical work and field and industrial visits.

**Prerequisites:** ESB122, ESB222

**Co-requisite:** ESB312

**Credit Points:** 12      **Contact Hours:** 5 per week

### ■ ESB392 FIELD TECHNIQUES & STUDIES

Methods used in the accumulation, analysis and interpretation of geological field data. Geological mapping, sampling and presentation of reports. The

subject includes an extended excursion (five days or more), during which 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. Other weekend excursions to areas of geological interest may be included.

**Prerequisites:** ESB122, ESB222

**Credit Points:** 12      **Contact Hours:** 5 per week

### ■ ESB422 SEDIMENTOLOGY & SEDIMENTARY PETROLOGY

Principles of sedimentation; processes of generation, accumulation and redistribution of sediments; sedimentary depositional environments; tectonism and diagenetic changes; geometric and structural components of sedimentary basins; sedimentary structures and textures; sedimentary rocks and economic deposits. The subject includes practical assignments and a short field excursion.

**Prerequisites:** ESB122, ESB222

**Credit Points:** 12      **Contact Hours:** 5 per week

### ■ ESB442 GEOMORPHOLOGY

The nature and origin of landforms in different environments, processes of formation and their relationship to geological features and history. Applied aspects concern problems related to groundwater and surface water, soil formation, coastal erosion and deposition, river development and environmental aspects of geology. Practical work involves exercises on above topics, air photo and topographic map interpretation and satellite imagery, plus a short field exercise

**Prerequisite:** ESB392

**Credit Points:** 12      **Contact Hours:** 5 per week

### ■ ESB452 GEOCHEMISTRY

An introduction to the chemistry of the earth as a whole and of its component parts. Origin and distribution of the elements within the universe, the solar system and the earth. Elemental associations, primary differentiation and geochemical classification. Thermodynamics, equilibrium and equilibrium constants, chemical potential, fugacity, activity, the phase rule and phase diagrams. Isotope geochemistry. Crystal chemistry, nature of solids, bonding forces, covalent and ionic radii, crystal structures, unit cell composition, solid solution, polymorphism, crystal field theory, trace elements in minerals. Organic geochemistry. The geochemistry of aqueous environments, water chemistry, properties of water, solutions and solubilities, pH, oxidation and reduction, water at high temperature and pressure, kinetics of water reactions. The geochemistry of magmatic, sedimentary and metamorphic rocks. Statistical rationalisation, interpretation and presentation of geochemical data. Practical aspects include preparation of geochemical maps and reports based on field work in selected localities.

**Prerequisites:** ESB312, MAB237, CHB182, CHB282

**Credit Points:** 12      **Contact Hours:** 5 per week

### ■ ESB462 LITHOLOGY

The description and classification of igneous, metamorphic and sedimentary rocks in thin section and hand specimen; optical mineralogy; textural identification and classification. Field excursions of short duration are normally required.

**Prerequisite:** ESB312

**Credit Points:** 12      **Contact Hours:** 5 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 on environmental and exploration problems.

**Prerequisite:** ESB403

**Credit Points:** 8      **Contact Hours:** 3 per week

### ■ ESB537 APPLIED 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 combination 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 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, build-

ings, roads, railways, tunnels and slopes. Field excursions to appropriate construction sites.

**Prerequisites:** ESB413, ESB437, 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, 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

#### ■ ESB700 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

#### ■ ESB701 GEOLOGICAL CASE STUDIES

Preparation of case history assignments of one or several projects from inception to completion. This includes 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

#### ■ ESB710 HYDROLOGY & 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:** 2 per week

#### ■ ESB711 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:** 2 per week

#### ■ ESB712 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:** 2 per week

#### ■ ESB713 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.

**Prerequisites:** ESB547, ESB403 or equivalent

**Credit Points:** 6 **Contact Hours:** 2 per week

#### ■ ESB714 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:** 2 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:** 7 **Contact Hours:** 3 per week

## ■ FNB100 AUSTRALIAN FINANCIAL MARKETS

System efficiency and the intermediation process; term structure of interest rates; the Australian banking and payments system; merchant bank and finance company operations; the operations of the Australian Stock Exchange; financial systems regulation; trading and pricing of money market/capital market securities; the options and futures market.

**Prerequisite:** ESB140

**Credit Points:** 12      **Contact Hours:** 3 per week

## ■ FNB101 BUILDING FINANCIAL MANAGEMENT 1

The accounting process and accounting systems in the building industry; the nature of accounts, liabilities, and proprietorship; the accounting equation and balance sheets, 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

## ■ FNB102 BUSINESS COMPUTING

Computer systems in business: hardware components, software components, micro/mini/mainframe, methods of processing, file concepts, data storage; micro-computer software – applications in business: MS-DOS, WordPerfect, dBASE III Plus, Lotus 1-2-3 (including business graphics); current business issues: security, privacy, legal issues, decision support systems, expert systems.

**Credit Points:** 12      **Contact Hours:** 3-4 per week

## ■ FNB104 COMPUTER APPLICATIONS IN FINANCE

Statistical analysis of share price data; statistical capabilities of a modern packages such as SPSSX, SAS, SHAZAM or LOTUS 1-2-3; application of those capabilities to data to determine finance parameters, eg. betas, returns; using statistical software to perform events studies on finance data; study of research techniques used in finance.

**Prerequisites:** FNB102, FNB111 or FNB112

**Credit Points:** 12      **Contact Hours:** 4 per week

## ■ FNB105 COMPUTER APPLICATIONS IN MANAGERIAL ACCOUNTING

Consideration of selected managerial accounting areas: master budgeting, cash budgeting, cost estimation, cost allocation, variance analysis, cost-volume-profit analysis; application of appropriate software tools; Lotus 1-2-3, Sybiz accounting software, graphics software, statistical analysis software.

**Prerequisite:** FNB102

**Credit Points:** 12      **Contact Hours:** 4 per week

## ■ FNB106 COMPUTER APPLICATIONS IN PUBLIC PRACTICE

Use of modern software tools and techniques (eg. Expert systems) as applied to selected areas of finance and commerce; reinforcement of investment analysis using software (eg. LOTUS 1-2-3); hardware and software selection process; the practicalities of negotiating contracts involving hardware and software; using and searching on-line public access databases; an understanding of the components and benefits of modern data communications and automated office technology in finance and commerce.

**Prerequisite:** FNB102

**Credit Points:** 12      **Contact Hours:** 4 per week

## ■ FNB107 FINANCE 1

The institutional framework terminology, the basic instruments, their uses and uncertainty, and the CAPM model. Practical aspects of asset management, firm valuations, investments and capital budgeting.

**Prerequisite:** AYB110

**Credit Points:** 12      **Contact Hours:** 3 per week

## ■ FNB111 FINANCE 1

The institutional framework terminology, the basic instruments, their uses and pricing. Financial mathematics, NPV, risk and returns, certainty and uncertainty, and the CAPM model. Practical aspects of asset management, firm valuations, investments and capital budgeting.

**Prerequisite:** AYB110

**Credit Points:** 12      **Contact Hours:** 4 per week

## ■ FNB112 FINANCE 2

Theoretical development of the CAPM model, the practical application of the model and its relationship to efficient market hypothesis. Capital structure, dividends, options, international finance.

**Prerequisite:** FNB111

**Credit Points:** 12      **Contact Hours:** 4 per week

## ■ FNB113 FINANCE 3

Advanced financial mathematics; advanced capital budgeting; readings in contemporary finance issues; project combining theory and practice.

**Prerequisite:** FNB112

**Credit Points:** 12      **Contact Hours:** 4 per week

## ■ FNB114 FINANCIAL INSTITUTIONS LENDING

Finance theory and the lending function; cost of bank funds; the evaluation of retail loans, lending to small business; financial statement analysis; corporate lending and securities; financing international trade; problem loans and credit scoring.

**Prerequisite:** FNB111

**Credit Points:** 12      **Contact Hours:** 3 per week

## ■ FNB115 FINANCIAL INSTITUTIONS MANAGEMENT

Strategic planning and budgeting in a financial institution, performance measurement, risk management in financial institutions, gap management liquidity and capital adequacy; lending policy and credit risk, service and customer profitability; international banking. An introduction to the marketing of financial services.

**Prerequisite:** FNB111 and FNB123

**Credit Points:** 12      **Contact Hours:** 4 per week

## ■ FNB116 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; vestment of firm funds in working capital and fixed assets; portfolio management theory.

**Credit Points:** 6      **Contact Hours:** 3 per week

## ■ FNB117 FINANCIAL MODELLING

The development of a basic model within an organisational environment; operation of computer modelling languages; analysis and development of forecasting models; specialist financial models; model development as part of the decision support system.

**Prerequisite:** FNB111

**Credit Points:** 12      **Contact Hours:** 4 per week

#### ■ FNB120 INTERNATIONAL FINANCE

Foreign exchange; government assistance to exporters and importers; international money markets; risk measurement in foreign exchange; foreign exchange market efficiency; Eurobond and Euronote financing; international capital budgeting; cost of capital in international finance; foreign takeovers and other acquisitions; legislative aspects; accounting issues; taxation issues; international financial economics; transfer pricing.

**Prerequisite:** FNB1200 and FNB111 (Export Diploma students may be required to undertake additional contact in lieu of FNB100).

**Credit Points:** 12      **Contact Hours:** 4 per week

#### ■ FNB121 ISSUES IN FINANCE

The finance framework; positive versus normative methods; Kuhn's model of progress; the resolution of traditional finance problems including ownership viewpoints; regulation and finance, market failure – the finance solution.

**Prerequisite:** FNB11, FNB123

**Credit Points:** 12      **Contact Hours:** 4 per week

#### ■ FNB122 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 absorption costing and their applicability to business education.

**Prerequisite:** AYB110

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ FNB123 MANAGERIAL ACCOUNTING 1

Introduction to managerial accounting, the role of the management accountant and cost concepts; costing systems including actual/normal/standard systems under job and process costing; introduction to budgeting; accounting for the factors of production: materials, labour and overheads; extension of basic costing systems for multiple products and spoilage; direct and absorption costing.

**Prerequisite:** AYB110

**Credit Points:** 12      **Contact Hours:** 4 per week

#### ■ FNB124 MANAGERIAL ACCOUNTING 2

Methods of corporate planning and decision making within the framework of corporate goal achievement; development of management control systems to evaluate segment and managerial performance; responsibility accounting; analysis of cost and management accounting information using formal decision models in relevant costing; pricing and transfer pricing; agency theory and other analysis techniques under certainty and uncertainty.

**Prerequisite:** FNB123

**Credit Points:** 12      **Contact Hours:** 4 per week

#### ■ FNB125 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:** 2 per week

#### ■ FNB126 PORTFOLIO & SECURITY ANALYSIS

CAPM; OPM; efficient market hypothesis, financial instruments; risk management

**Prerequisites:** FNB111, FNB112

**Credit Points:** 12      **Contact Hours:** 4 per week

#### ■ FNB127 MANAGERIAL ACCOUNTING PRINCIPLES

Budgeting, standard costs and variance reporting for manufacturing for non-manufacturing firms; managerial performance reporting, decentralised business operations, and capital budgeting; inventory planning, control and valuation; relevant costs and decision making; project control.

**Prerequisite:** Accounting Information Systems

**Credit Points:** 9      **Contact Hours:** 3 per week

#### ■ FNN100 ADVANCED CAPITAL BUDGETING

Application of the theoretical constructs developed in undergraduate finance subject to complex problems in investment appraisal. A case study approach is used with the majority of cases being drawn from real situations.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ FNN101 FINANCE HONOURS

An advanced coverage of the theory of financial management, building on work done in the undergraduate course with reference to empirical evidence where available. Topics include capital markets, investment decisions, market equilibrium, the capital asset pricing model, arbitrage pricing theory, capital structure, dividend policy, efficient capital markets. The subject provides a theoretical basis allowing for evaluating policy problems in the area of financial management, a necessary prerequisite for further specialisation in this area.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ FNN102 MANAGERIAL FINANCE

Introduction to the world of finance and financial management. Topics include: the finance function, the role of the financial manager; the Australian financial environment; sources of funds; present and future value; time value of money; financial mathematics; cost of funds, the firm investment decision; investment evaluation techniques; cash budgeting; working capital management; capital budgeting; dividend policy and financial structure policy.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ FNN103 FINANCIAL MODELLING

Modelling as an organisational planning tool; the development and manipulation of databases in order to provide information sources for model building; the use of the modelling concept for solving investment and forecasting problems and analysing performance.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ FNN104 FINANCIAL RISK MANAGEMENT

An advanced postgraduate finance subject which covers four areas of risk management: portfolio risk, investment risk, exchange risk and insurance. Topics include: portfolio theory, performance evaluation, benchmark problems, hedging, portfolio insurance in the crash of 1987, managing exchange risk, risk reduction, self insurance, exchange risk, new tax rules and superannuation fund performance, interest rate risk, rating agencies, duration and immunisation. Emphasis is placed on empirical research.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ FNN105 INTERNATIONAL FINANCE

The theory and practice of international finance including the relationship between domestic and international capital markets, interest rate and exchange rate determination, risk management of foreign exchange, international trade finance, off-

shore investment, legislation, transfer pricing, and accounting and taxation aspects of international finance.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ FNN106 MANAGERIAL ACCOUNTING HONOURS

The current research in management accounting. Topics include: costing for product pricing; behavioural implications of costing methods; advanced variance analysis; aspects of agency theory; advanced transfer pricing; structure of the firm and its impact on managerial accounting; contemporary developments.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ FNN110 MANAGERIAL ACCOUNTING ISSUES A

The theoretical issues associated with the design, operation and evaluation of management accounting systems. Topics include behavioural aspects of responsibility accounting, performance evaluation, measurement of managerial performance, decentralisation and organisational structure and cost control as it pertains to organisational structure. The subject consists of formal seminars, problem solving and case studies.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ FNN111 MANAGERIAL ACCOUNTING ISSUES B

The practical managerial accounting issues currently facing contemporary management. Topics include: quality development and strategic product development, productivity control, advanced budgeting techniques, program budgeting, and management control systems.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ FNN112 SPECIAL TOPIC – MANAGERIAL ACCOUNTING & FINANCE

This subject is offered when required and normally examines issues of significance in the managerial accounting and finance areas.

**Credit Points:** 12

### ■ FNN300 ACCOUNTING 2 (PY)

This subject aims to satisfy the Professional Year syllabus of the Institute of Chartered Accountants in Australia in relation to applied areas of managerial accounting, finance and auditing. The subject builds upon the undergraduate framework in these areas. The topics covered are revised annually by the Institute with a focus on applied practice.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ FNN301 MANAGEMENT ACCOUNTING (PY)

This subject is designed to satisfy an elective topic in the Professional Year program of the Institute of Chartered Accountants in Australia. The syllabus is revised annually and applied advanced managerial topics are included as the profession determines necessary for senior managerial accountants.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ FNP101 QUALITY COST ANALYSIS

Programs in quality assurance related to costing procedures and terminology; quality costs as defined in AS2561; the design and use of cost control systems to conform with the standard.

**Credit Points:** 6      **Contact Hours:** 3 per week

### ■ HMB101 MOVEMENT FOR YOUNG CHILDREN

Examination of the predisposition of young children towards rhythm in movement and sound; identification of how this might be used to enhance their early education; play elements in relation to the above; situations in which creative learning experiences might emerge; workshops.

**Credit Points:** 4      **Contact Hours:** 2 per week

### ■ HMB102 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.

**Credit Points:** 8      **Contact Hours:** 3 per week

### ■ HMB103 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:** 4      **Contact Hours:** 2 per week

### ■ HMB104 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:** 4      **Contact Hours:** 2 per week

### ■ HMB105 OUTDOOR PURSUITS

Opportunities for students to participate in a program of outdoor activities incorporating the basic skills and knowledge necessary for meeting environmental challenges. Physical skills and techniques are presented in a logical progression to ensure safe participation in future outdoor education activities.

**Credit Points:** 8      **Contact Hours:** 3 per week

### ■ HMB106 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:** 8      **Contact Hours:** 3 per week

### ■ HMB107 LEISURE EDUCATION

Leisure and recreation; leisure and the individual; leisure and society; future directions for leisure; all-of-life sport.

**Credit Points:** 4      **Contact Hours:** 2 per week

### ■ HMB108 TEACHING GAMES & SPORT

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

### ■ HMB201 PHYSICAL EDUCATION I

Foundations of growth and development in primary children. Understanding the factors in physical skill development. Knowledge of the content of primary physical education curriculum and processes in teaching such content. Development from basic lesson

planning to comprehensive and sequenced term planning.

**Credit Points:** 8      **Contact Hours:** 3 per week

#### ■ HMB202 PHYSICAL EDUCATION 2

Theoretical, practical and organisational requirements of teaching physical education in primary schools. Students cohesively combine elements of the curriculum in fieldwork situations which is germane to preparation of teachers of physical education, both specialist and non-specialists. At the outcome, students will be able to consider the total programming aspects of physical education curriculum holistically.

**Credit Points:** 8      **Contact Hours:** 3 per week

#### ■ HMB203 FOUNDATIONS OF PHYSICAL ACTIVITY

The possibilities of improving life through physical activity are unlimited and this foundation subject aims to present all sides of physical education viewed from different vantage points. The concern is with the how and why of human movement, whether this be in the school setting or on the sports field, for competition or for recreation, for enjoyment or for money.

**Credit Points:** 8      **Contact Hours:** 3 per week

#### ■ HMB204 PHYSICAL ACTIVITY STUDIES 1

Students study one of the following four strands: the science of physical activity incorporating physiology, anatomy and biomechanical principles which govern the body's movements in a variety of movement situations; a dance strand which enables students to understand basic dance technique and choreographic principles to encourage the building of confidence in their own ability to move expressively; a sport in society strand which synthesises the philosophical, sociological and cultural forces which have influenced the role and relevance of play, games and sport in society; a motor development and skill acquisition strand which will incorporate theoretical and applied aspects of motor learning in such a way that appropriate methods for meeting the particular needs of each learning situation are developed.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ HMB205 PHYSICAL ACTIVITY STUDIES 2

The subject matter is offered in four strands to enable students to gain an in-depth knowledge of one of the following strands: Science of Physical Activity enables students to gain experience assessing the components of physical fitness in the laboratory and then implement these skills in the community; Adapted Physical Activity incorporating designing community programs for handicapped and disabled people; Dance which enables students to acquire the rudiments of a modern dance technique and to relate it to performance, individually or in a group; Sport in Society from a sociological perspective that examines the inter-relationship with other societal institutions in its role as a social force and a cultural phenomenon.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ HMB240 HEALTH EDUCATION

An understanding of what is involved in life-long healthy living and the role health education plays in promoting this. Curriculum development in primary school health education and the investigation of selected content areas of the primary school health education curriculum which highlights the importance of attitudes, values, beliefs and practices in the adoption of healthy behaviour.

**Credit Points:** 8      **Contact Hours:** 3 per week

#### ■ HMB242 HEALTH STUDIES 2

This level two subject is offered in parallel strands. Students have the option to follow a strand focussing on individual health, or a strand focussing on health as a community issue. Students choosing to follow the individual strand focus on their development of a personal action control as a procedure for maintaining their health. Students choosing to follow the community health strand focus on occupational and environmental health issues in the community. This subject expands some of the issues raised in the level one subject.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ HMB243 HEALTH STUDIES 3

This level three subject extends in depth some of the issues addressed in the level one and two subjects. The dual strand developed in the level two subject continues, following an individual or a community focus. In the individual strand the focus narrows to look at the individual health status of children. In the community strand the focus narrows to look at drug issues and their use in Australia.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ HMB303 ADOLESCENT HEALTH & LIFESTYLE

An introduction to the health influences and needs of adolescents: importance of a sound personal health foundation during the growing years for the prevention of health problems during adulthood; relationship between genetic and environmental factors that influence the health of children and adolescents; health services in the community used in the promotion of health during adolescence including support groups.

**Credit Points:** 10      **Contact Hours:** 3 per week

#### ■ HMB305 PERSONAL HEALTH

Examination of the range of factors influencing personal health including lifestyle and a range of social, economic and environmental factors. The subject takes a holistic perspective on personal health.

**Co-requisite:** PUB327

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ HMB309 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:** 12      **Contact Hours:** 5 per week

#### ■ HMB310 PHYSICAL EDUCATION CURRICULUM & TEACHING STUDIES 1

Builds on CUB301 to give a greater understanding of the nature of physical education as an applied curriculum area. Provides insights into relevant Queensland syllabus and curriculum documents, develops competencies in planning and teaching and makes close links with teaching practice.

**Prerequisites:** CUB301 and at least 48 credit points in each relevant discipline area.

**Credit Points:** 8      **Contact Hours:** 3 per week

#### ■ HMB311 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 harm-

ful; mechanical principles of human movement; diagnosis of errors in technique; isolation of basic elements common to a variety of performance skills.  
**Credit Points:** 12      **Contact Hours:** 4 per week

#### ■ HMB312 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:** 12      **Contact Hours:** 5 per week

#### ■ HMB313 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:** 12      **Contact Hours:** 4 per week

#### ■ HMB314 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:** 12      **Contact Hours:** 6 per week

#### ■ HMB315 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:** 12      **Contact Hours:** 6 per week

#### ■ HMB316 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:** 12      **Contact Hours:** 6 per week

#### ■ HMB317 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; lightweight, minimum impact camping; leadership skills and safety techniques; the Australian natural environment; promotion of positive attitudes towards natural environments.

**Credit Points:** 12      **Contact Hours:** 6 per week

#### ■ HMB318 RESEARCH IN MOVEMENT STUDIES

Data collection, presentation, and interpretation; test design and administration; basic computer programming and analysis; elementary research procedures and design.

**Prerequisites:** HMB309, HMB311 or HMB312  
**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ HMB319 SPORTS PSYCHOLOGY

The role of the mind in sports performance is being increasingly recognised and a position has been reached where sport psychologists are in evidence wherever important competition is taking place. Psychological factors to be examined include planning for competition, the build up to competition, intervention strategies used during competition and restructuring goals for the next performance. Sports psychology complements the physical aspects of skill and fitness and gives the student a better insight into the total person and the total performance.

**Prerequisite:** HMB309

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ HMB320 PHYSICAL EDUCATION CURRICULUM & TEACHING STUDIES 2

Studied in association with CUB302. Provides opportunities for consideration and practical application of broad curricular teaching principles and systems policies within the more specific context of this curriculum area. As with CUB302, establishes principles which will be used to guide school experience during teaching practice and also as a beginning teacher.

**Prerequisite:** HMB310

**Co-requisites:** CUB302, EDB302

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ HMB321 SOCIOLOGY OF SPORT

How sport affects individuals, the local community, and society in general; sport and leisure from a sociological standpoint; commercialism; politics in sport; sport in Australia: origins and development of our sporting ethos.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ HMB322 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:** HMB309

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ HMB323 SPORT & FITNESS DEVELOPMENT

Practical procedures and laboratory work; testing and evaluating; exercise prescription; design and development of conditioning programs.

**Prerequisite:** HMB312

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ HMB324 ADVANCED SKILL LABORATORIES

Investigation of an advanced theoretical structure and application to a performance activity of their choice.

**Prerequisites:** Compulsory Level 1 subjects in Performance Skills.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ HMB325 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.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ HMB326 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.

**Prerequisite:** HMB311

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ HMB327 COMPUTERS IN SPORT & PHYSICAL EDUCATION

This subject is designed to familiarise students with the benefits of applying microcomputer technology to the field of physical education. Throughout the subject students will be introduced to, and provided with, an opportunity to use and evaluate a wide variety of computer software programs which are presently being used by innovative physical educators throughout the world.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ HMB328 COMPARATIVE PHYSICAL EDUCATION

Provides an international perspective; comparative analysis of systems of physical education and sport in selected countries such as the Soviet Union, People's Republic of China, South Africa and Australia; sport issues in the twentieth century.

**Prerequisite:** HMB313

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ HMB329 ANTHROPOLOGY OF PLAY

Play theories and functions of play in society; case studies; Australian Aborigines; North American Indians; Polynesian Societies; play and contest as ritual.

**Prerequisite:** HMB313

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ HMB330 PHYSICAL EDUCATION CURRICULUM & TEACHING STUDIES 3

Last in the Curriculum and Teaching Studies series with a major focus on contemporary issues and emerging trends pertaining to curriculum development in this curriculum area. Includes study of advanced planning and teaching strategies and provides opportunities for application of planning and teaching skills during practice teaching.

**Prerequisites:** HMB310, HMB320, CUB302

**Credit Points:** 8      **Contact Hours:** 3 per week

### ■ HMB332 HEALTH RELATED FITNESS

The role of health related fitness in the community and in the school as it contributes to the attainment of optimal health.

**Prerequisite:** PUB327

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ HMB333 CHILD & ADOLESCENT HEALTH

Child and adolescent health and the wide range of factors that impact on health.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ HMB334 FUNCTIONAL ANATOMY & KINESIOLOGY

The relationship between structure and function of the musculoskeletal and nervous systems is explored in relation to human movement and body mechanics; observation and development of techniques necessary for detailed kinesiological analysis.

**Prerequisite:** HMB311

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ HMB335 INDIVIDUAL GAMES & SPORTS

These sports offer a different perspective from team games by demanding a higher level of self-directed involvement. Students will be able to specialise in three sports selected from the range offered which may include activities such as archery, golf, orienteering, fencing, squash and table tennis.

**Credit Points:** 12      **Contact Hours:** 4 per week

### ■ HMB336 LEISURE & AUSTRALIANS

The need for leisure education and the associated problems of finance, facilities, ignorance and apathy are examined; the concept of leisure-time, activity and value is discussed; current trends and issues in leisure behaviour patterns in Australian society are identified.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ HMB340 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:** 8      **Contact Hours:** 3 per week

### ■ HMB410 PHYSICAL EDUCATION CURRICULUM: SECONDARY

Examination of the factors responsible for current physical education curriculum development. Emerging trends are studied to highlight the implications for physical education programs. The subject challenges the student to design a secondary curriculum that reflects current educational trends.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ HMB411 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.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ HMB440 MOTOR DEVELOPMENT & LEARNING IN CHILDREN

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 comprehension and manipulation; theories of motor learning; evaluation of perceptual-motor, sensory-motor and psycho-motor theories.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ HMB441 SOCIOLOGY OF SPORT

Towards a sociology of sport, historical and contemporary perspectives; sport in Australia; Australia's sporting heritage; corruption of sport; control of sport; media and sport; inequality in sport; social issues in sport.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ HMB442 ADMINISTRATION IN PHYSICAL EDUCATION & SPORT

Identification of duties of the administrator; administration theory; leadership styles and conflict resolution; budgeting and money management including sponsorship and fundraising; planning for a range of events; processes and procedures of management. These are discussed against a school and club setting.

**Credit Points:** 12      **Contact Hours:** 3 per week



# **■ HMP014 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:** 12      **Contact Hours:** 3 per week

# **■ HMP015 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:** HMP014

**Credit Points:** 12      **Contact Hours:** 3 per week

# **■ HMP420 PHYSICAL EDUCATION CURRICULUM & TEACHING STUDIES A**

Development of competencies relevant to the effective planning and teaching of physical education in secondary schools. The most important contribution is to provide a conceptual framework for alternatives in teaching strategies and to give starter plans which can be successfully modified. Particular attention is paid to management and control in the outdoors, safety, maximum participation and teaching for cognition in practical activities.

**Prerequisite:** Appropriate discipline studies in the undergraduate degree.

**Co-requisite:** EDP450

**Credit Points:** 24      **Contact Hours:** 6 per week

# **■ HMP421 PHYSICAL EDUCATION CURRICULUM & TEACHING STUDIES B**

Provides a theoretical context and considers practical applications in assessment, curriculum planning, teaching and learning strategies; examines the role of the teacher in the community and the profession.

**Prerequisite:** HMP420      **Co-requisite:** EDP451

**Credit Points:** 12      **Contact Hours:** 3 per week

# **■ HMP423 OUTDOOR EDUCATION CURRICULUM & TEACHING STUDIES C**

This Curriculum C subject provides opportunities for students with an appropriate background to prepare to teach outdoor education. It develops skills and understandings in planning, assessment and teaching and learning strategies, and builds on the general principles of the Curriculum A and B groups of subjects.

**Credit Points:** 12      **Contact Hours:** 3 per week

# **■ HRB100 ADVANCED ORGANISATIONAL BEHAVIOUR**

Investigation and analyses of major organisational behaviour issues undertaken within a context of organisational effectiveness and the quality of work life; analysis of relevant literature; application of concepts via case studies, surveys and/or projects.

**Prerequisite:** HRB130 or HRN108

**Credit Points:** 12      **Contact Hours:** 3 per week

# **■ HRB101 ADVANCED TRAINING & DEVELOPMENT**

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, direct controlling; the competencies of a trainer. Experiential and project activities.

**Prerequisite:** HRB120

**Credit Points:** 12      **Contact Hours:** 3 per week

# **■ HRB102 ADVOCACY & NEGOTIATION**

Preparation and conduct of various types of negotiated industrial cases; preparation of tribunal documentation; preparation and presentation of cases before industrial tribunals.

**Prerequisite:** HRB114

**Credit Points:** 12      **Contact Hours:** 3 per week

# **■ HRB103 EMPLOYMENT REGULATION & ADMINISTRATION**

Survey of the key legislation, regulations and agreements which impact on work and therefore in personnel management and industrial relations; the consequences of these requirements on the administration of human resources.

**Prerequisite:** HRB131, HRN104

**Credit Points:** 12      **Contact Hours:** 3 per week

# **■ HRB104 FOUNDATION HRM COMPETENCIES**

The personal and interpersonal competencies (in both cognitive and affective domains) which form the foundations from which a HRM 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:** HRB130

**Credit Points:** 12      **Contact Hours:** 3 per week

# **■ HRB105 HUMAN RESOURCES & THE ORGANISATION**

The interface of human resources with the organisation and its requirements; concepts and processes for analysing jobs; human resources planning, job evaluation, performance appraisal and remuneration processes; data. A substantial level of analytical and professional competence is expected in this subject.

**Prerequisite:** HRB131 or HRN104

**Credit Points:** 12      **Contact Hours:** 3 per week

# **■ HRB106 INDEPENDENT STUDY IN MANAGEMENT**

A review of an organisation by examining some aspects of its management processes and practices; the review leads to the preparation of a report for the organisation.

**Prerequisite:** BSB102

**Credit Points:** 12      **Contact Hours:** 3 per week

# **■ HRB107 INDEPENDENT STUDY HRD**

This subject enables 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, 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:** As determined by the supervisor.

**Credit Points:** 12      **Contact Hours:** 3 per week

# **■ HRB108 INDEPENDENT STUDY HRM**

This subject will enable 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:** As determined by the supervisor.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ HRB109 INDUSTRIAL DEMOCRACY

The theoretical basis for the range of industrial democracy schemes which have been developed. In particular, it focuses how such factors as employment relationships, organisation of work and reward systems have been generated.

**Prerequisite:** HRB114

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ HRB110 INDUSTRIAL LAW

The development and role of law in industrial relations in Australia; industrial relations legislation; common law contract of employment; industrial torts; other statute and case law related to the above.

**Prerequisite:** HRB131

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ HRB111 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

#### ■ HRB112 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 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

#### ■ HRB113 INDUSTRIAL RELATIONS HISTORY

The emergence and development of labour movements and employer groups; the ideas which gave rise to and changed these institutions. Although the focus is on Australia, relevant European and North American experience is included.

**Prerequisite:** HRB131

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ HRB114 INDUSTRIAL RELATIONS INSTITUTIONS

The history, structure, functions and role of the industrial tribunal system in federal and state jurisdictions, employer associations and unions.

**Prerequisite:** HRB131

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ HRB115 INDUSTRIAL RELATIONS POLICIES

Examination of the most significant policies of governments, employer bodies and unions; the development and influence of contemporary policies by these institutions.

**Prerequisite:** HRB114

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ HRB116 INNOVATION & ENTREPRENEURSHIP

An examination of the development of both large and small firms; innovation in existing firms; sources of

funds; government support; business planning; writing a business plan.

**Prerequisite:** BSB102

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ HRB118 INTERNATIONAL MANAGEMENT

The management of multinational enterprises; management across national borders and in different cultures; corporate-government relations and conflicting regulations; international marketing; international industrial relations.

**Prerequisite:** BSB102

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ HRB119 INTERVIEWING & COUNSELLING

Development of practical skills in aspects of employment interviewing through an introduction to the theory and principles of interviewing, and supervised experience. The characteristics of the interview situation; the interviewer, the interviewee and their inter-relationships. Interview areas include the personal interview; information seeking and the employee-personnel interview: recruitment, appraisal, disciplinary and exit. Personality theory, guidance, counselling theory and techniques. An emphasis on understanding and practising the human skills required to facilitate the development of others, either in individual interaction or group interaction.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ HRB120 INTRODUCTORY TRAINING & DEVELOPMENT

The knowledge and competencies required of a beginning trainer or an occasional trainer. Appropriate theories and research, and skill development. Major topics include: training in Australia; instructional models and theories of learning; training needs analysis; task analysis process; basic training techniques – the information giving model, the discussion model; training aides/audiovisuals; algorithms; administering a training course; evaluating learning, writing and scoring test items; follow-up training.

**Prerequisite:** The completion of the equivalent of the first year of the course in which the student is enrolled or Introduction to Management

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ HRB121 MANAGEMENT (ENGINEERS)

An introduction to the theory and practice of management, laying a foundation on which to build managerial knowledge and techniques through a lifetime career. Functions of management; planning, organising, leading and controlling presented in the framework of a systems approach to decision making.

**Credit Points:** 4      **Contact Hours:** 2 per week

#### ■ HRB122 MANAGEMENT (CHEMISTS)

An introductory study of management including the functions of management, leadership, motivation and supervision of staff, and employee relations.

**Credit Points:** 4      **Contact Hours:** 2 per week

#### ■ HRB125 MANAGEMENT POLICY & STRATEGY

The process of strategy as applied to modern management in both the public and private sectors. Attention is given to the organisational context, to the processes involved in the formulation of policy and strategy, and the problems associated with moving from advocacy

to implementation to review and evaluation of organisational performance.

**Prerequisites:** BSB102, HRB131 or HRN104

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ HRB126 MANAGEMENT PROCESSES

The skill domain of management, including self-management; techniques used to assist in the task of managing.

**Prerequisite:** BSB102

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ HRB127 MANAGEMENT THEORY & ISSUES

In consideration of a number of the theories which have been advanced to explain the tasks and roles of managers; recent developments in regard to management and organisational methods as well as some of the issues confronting managers.

**Prerequisite:** BSB102

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ HRB128 OCCUPATIONAL HEALTH & SAFETY MANAGEMENT

The physical working environment and its physical and psychological impact on staff members; major occupational health and safety issues and their management; ergonomics, human-machine interface and physical aspects of job design; competencies in conducting safety audits, designing safety programs and the management of the occupational health and safety functions.

**Prerequisites:** HRB131, HRN104

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ HRB129 OPERATIONS & PRODUCTION MANAGEMENT

Types of production and their implications for management; the management and control of organisational systems; techniques for managing inventories and raw materials, plant layout, work and production scheduling, and quality control.

**Prerequisite:** BSB104 or HRN104 (may be done as a co-requisite)

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ HRB130 ORGANISATIONAL BEHAVIOUR

Introduction to human behaviour in work and other settings; actions designed to enhance individual outcomes: satisfaction, commitment, and/or the human inputs into organisational outcomes: effectiveness, productivity, attendance, retention, flexibility. It is also foundational material for any client or service orientation to customers of the organisation. The development and application of strategies and practices impinging on the human component of business in the broadest sense, essential to anyone intending to influence the behaviour of others.

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ HRB131 PERSONNEL MANAGEMENT & INDUSTRIAL RELATIONS

The broad range of influences that impact on personnel management and industrial relations, and the theoretical and conceptual foundations upon which personnel management and industrial relations is based.

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ HRB132 PRACTICE MANAGEMENT

Small business management; the various roles in which small business managers must develop at least rudimentary proficiency. The structure, organisation, finance, planning, control, taxation, marketing, and environmental factors are discussed in order to equip

students with basic skills necessary for starting a successful small business.

**Credit Points:** 4 **Contact Hours:** 2 per week

#### ■ HRB133 PUBLIC SECTOR MANAGEMENT

Management and administration in the context of the public sector; public sector enterprises; program evaluation and review; government-business relations.

**Prerequisite:** BSB102

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ HRB134 RECRUITMENT & SELECTION

This subject has an applied focus but draws heavily on conceptual and research foundations and job analysis competencies developed in HRB105. Contextual issues of the legal and social environment as well as labour markets are considered. Recruitment: is examined from the perspective of both the organisation and the individual; recruitment strategies; selection techniques including aptitude and ability testing, work samples, assessment centres and interviews; technical issues including validity, reliability and utility analysis.

**Prerequisite:** HRB105

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ HRB135 SMALL BUSINESS MANAGEMENT

The development of small business; the interface between large and small business; government policy and small business; managing small enterprises; survival strategies; practical techniques and operations.

**Prerequisite:** BSB102

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ HRB136 STRATEGIC HUMAN RESOURCE MANAGEMENT

The capstone of the HRM major; the primary objective is to integrate HR concepts and issues into the wider business and environmental context. In addition, a range of historical features, professional and ethical matters are considered. An experiential approach based in cases and or simulations is adopted.

**Prerequisite:** Completion of five subjects within the HRM major.

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ HRB137 WAGES & EMPLOYMENT

The forces which determine wage and employment levels; the various types of labour markets; collective bargaining and skill formation processes. The relationship between these aspects and industrial relations institutions are addressed.

**Prerequisite:** HRB131

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ HRB138 WORK & SOCIETY

Work and work organisations in industrialised society and their relationship with industrial relations processes and structures. Examination of work, work organisations and relations at work from a range of perspectives. The influence of control over work, work practices and technological change in an industrial relations context.

**Prerequisite:** HRB131

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ HRB140 MANAGEMENT & TECHNOLOGY

Exploration of the links between technical process, product innovation and management structure, policy and practice; emphasises the consequences of changes

to technologies for the organisation, for example, robotics.

**Prerequisite:** BSB102

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ HRB142 PERSONNEL MANAGEMENT

Small business management; the various roles in which small business managers must develop at least rudimentary proficiency. The structure, organisation, finance, planning, control, taxation, marketing, and environmental factors discussed in order to equip students with basic skills necessary for starting a small business.

**Credit Points:** 4      **Contact Hours:** 2 per week

#### ■ HRB144 PUBLIC SECTOR INDUSTRIAL RELATIONS

Examination of industrial relations within the public sector in both Federal and State arenas, in particular the relationship between the various agencies of the state and public sector units.

**Prerequisite:** HRB114

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ HRB146 SPECIAL TOPIC HRM

Will be offered as required. The aim of the subject is to permit an in-depth examination of an issue of importance to HRM. Hence, the actual content will vary, depending on the issue under examination.

**Prerequisite:** HRB131

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ HRB400 CURRENT ISSUES IN MANAGEMENT

Advanced management issues and practices. Content depends on which management issues are significant at the time and the special expertise of staff, including visiting scholars and distinguished business leaders.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ HRB401 STRATEGIC MANAGEMENT

Introduces Honours students to management strategy and decision-making concepts and skills; intended for students who have not completed at least a management minor at undergraduate (those who have need to take the subject Current Issues in Management). Emphasising the strategic viewpoint, the subject includes a critical assessment of: management theory and issues; operational management; and management as a skill domain.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ HRB402 PUBLIC PERSONNEL MANAGEMENT

Principles of public sector management; public sector staffing structure; planning; organising/staffing; grievance resolution; reviews; development; personnel management issues; revision.

**Prerequisite:** EPB100

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ HRB404 PRINCIPLES OF MANAGEMENT

Introduction to the concepts, principles and practical techniques involved in managing organisations; 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

#### ■ HRN100 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.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ HRN101 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.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ HRN102 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:** 3 per week

#### ■ HRN103 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:** 3 per week

#### ■ HRN104 INTRODUCTION TO MANAGEMENT

The functions and roles of managers; frameworks of concepts and principles; practical applications of those concepts and principles; the key management functions; areas of planning, organising, staffing, directing and controlling; production/operations management and the management of quality; entrepreneurship and business planning; important problems, opportunities and trends facing managers in Australia analysed from the viewpoint of a range of relevant academic disciplines.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ HRN105 LABOUR-MANAGEMENT RELATIONS

Employee relations; employee and union action; the role of governments and industrial tribunals; alternative methods and pressures to change traditional Australian systems; the Australian system of labour/management relations; different systems of regulation in the employment area; negotiating skills; the resources required for mobilising change in this area.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ HRN106 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.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ HRN107 ORGANISATIONAL PSYCHOLOGY

The nature of organisations and the way in which individuals, groups and leaders function within or-

organisations. Theories of organisational structures; the determinants of organisational structure; an examination of climate and culture within organisations. The places of the individual within the organisation and the assumptions underlying the psychological theories which guide the treatment of employees. Traditional and recent developments in leadership theory. The course ends with a consideration of the future of organisations and changes.

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ HRN108 PEOPLE IN ORGANISATIONS

The internal operation of organisations and the behaviour of those in them; exploration of a range of theories and models of individual and group behaviour. This exposure encourages students to critically evaluate such theories and models, and their implications for management behaviour.

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ HRN110 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:** 144

#### ■ HRP100 COMPARATIVE INDUSTRIAL RELATIONS

The main structures, processes and contexts relevant to industrial relations in selected industrialised societies; the different ways in which industrial relations have developed and operates.

**Prerequisite:** HRB131

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ HRP102 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 leadership, motivation, attitudes, values, learning and organisational culture; ergonomics and workplace design and occupational health and safety.

**Credit Points:** 6

**Contact Hours:** 3 per week

#### ■ HRP103 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:** 3 per week

#### ■ HRP104 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:** 3 per week

#### ■ HRP105 INDUSTRIAL RELATIONS PROCESSES

Negotiation practices in industrial law; detailed study of law relating to trade unions and employer organisations; current developments in industrial law.

**Prerequisite:** HRP104

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ HRP106 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

#### ■ HRP107 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 process.

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ HRP108 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, customer focus, technology and leadership, quality planning and quality systems and standards.

**Credit Points:** 6 **Contact Hours:** 3 per week

#### ■ HRP109 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

#### ■ HRX100 AUSTRALIAN DEVELOPMENT

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:** 3 per week

#### ■ HRX101 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:** 3 per week

#### ■ HRX102 INDUSTRIAL RELATIONS INSTITUTIONS

An introductory analysis of the theory and practice of industrial relations in which major emphasis is placed on the role of the parties and the bargaining context in Australia.

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ HRX103 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:** 3 per week

## ■ HRX104 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:** HRX103

**Credit Points:** 12      **Contact Hours:** 3 per week

## ■ HRX105 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:** HRX104

**Credit Points:** 12      **Contact Hours:** 3 per week

## ■ HRX106 INDUSTRIAL RELATIONS SKILLS 4

Formal advocacy and negotiation; operations within the conciliation and arbitration tribunals; collective bargaining in common law agreements; award creation and variation.

**Prerequisite:** HRX105

**Credit Points:** 12      **Contact Hours:** 3 per week

## ■ HRX107 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:** 3 per week

## ■ HRX108 SPORTS ADMINISTRATION

The roles of elected officials; the roles of professional administrators; the relationships between the two groups; managing meetings and committees; liaison with government departments; managing sponsorship; intra-organisational conflicts and negotiation.

**Prerequisite:** BSB102

**Credit Points:** 12      **Contact Hours:** 3 per week

## ■ HRX110 WORKPLACE ISSUES

Analysis of policies dealing with current industrial relations issues in the workforce. Australian and overseas initiatives.

**Credit Points:** 12      **Contact Hours:** 3 per week

## ■ HUB002 CONTEMPORARY MORAL PROBLEMS

Introduction to the central questions of applied ethics and moral philosophy through an analysis of a range of contemporary issues, eg. uses of technology, genetic engineering, nuclear energy, overpopulation, environmentalism, war, terrorism, civil disobedience, pacifism, racism, sexism, abortion, euthanasia, suicide and sexuality.

**Credit Points:** 12      **Contact Hours:** 3 per week

## ■ HUB003 PHILOSOPHY & NURSING 1

A general introduction to philosophical questions and reasoning. Students have the opportunity to examine the ways in which personal beliefs and values impact on the nature of human beings and on nursing practice. Topics include: the nature of philosophy and political philosophy; the concept of personhood; spirituality and caring; and critical thinking in nursing practice.

**Credit Points:** 8      **Contact Hours:** 3 per week

## ■ HUB004 PHILOSOPHY & NURSING 2

Exploration of bioethics providing a foundation for the nursing professional in the handling of moral dilemmas intrinsic in the provision of health care.

Topics include: introduction to ethics; bioethics in the social context; the process of moral decision making; the relationship between ethics and professional nursing practice.

**Credit Points:** 8

**Contact Hours:** 3 per week

## ■ HUB005 SOCIAL 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 possibilities of human relationships education within the Queensland education system.

**Credit Points:** 12

**Contact Hours:** 3 per week

## ■ HUB100 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:** 12

**Contact Hours:** 3 per week

## ■ HUB101 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:** HUB100

**Credit Points:** 12

**Contact Hours:** 3 per week

## ■ HUB102 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:** HUB100

**Credit Points:** 12

**Contact Hours:** 3 per week

## ■ HUB103 NINETEENTH CENTURY ENGLISH LITERATURE

The importance of context to critical appreciation of the literature of any age; the varying kinds of relationships that exist between writers and their society in a time of profound social, economic and political change.

**Prerequisite:** HUB100

**Credit Points:** 12

**Contact Hours:** 3 per week

## ■ HUB104 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.

**Prerequisite:** HUB100

**Credit Points:** 12

**Contact Hours:** 3 per week

### ■ HUB105 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.

**Prerequisite:** HUB100

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ HUB108 CLASSICAL & MEDIEVAL LITERATURE

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:** HUB100

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ HUB109 NARRATIVE & SOCIAL CONTEXT

The role and functions of narrative and story-telling as habitual means of making sense of experienced socio-political issues; myth and the construction of social and psychological realities. Textual analysis of set works in terms of social, cultural and political contexts, and in relation to the ways in which medium of expression, genre and intended audience relate to content.

**Prerequisite:** HUB100

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ HUB111 APPROACHES TO LITERATURE

Introduction to theories and practice of literary criticism and cultural analysis. The subject applies theoretical approaches (including new criticism; structuralism and post-structuralism; Marxist, psychoanalytic and feminist perspectives) to the study of a representative selection of texts chosen from a variety of genres and media.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ HUB200 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.

**Co-requisites:** HUB201, HUB202

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ HUB201 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.

**Co-requisites:** HUB200, HUB202

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ HUB202 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.

**Co-requisites:** HUB200, HUB201

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ HUB203 PEOPLE & THE NATURAL ENVIRONMENT 2

Global systems; regional patterns of climate, soils, flora and fauna; human influence on global systems, potential effects and mitigation strategies.

**Prerequisite:** HUB201

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ HUB204 AUSTRALIAN GEOGRAPHICAL STUDIES

Consumer versus conservator values; resource 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 resource development.

**Prerequisite:** HUB200

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ HUB205 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 overcrowding, 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.

**Prerequisite:** HUB202

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ HUB206 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.

**Prerequisite:** HUB202

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ HUB207 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.

**Prerequisites:** HUB201, HUB203

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ HUB208 ASIAN GEOGRAPHICAL STUDIES

Physical and cultural aspects of Asia; transition from traditional societies; the effects 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.

**Prerequisites:** HUB200, HUB203

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ HUB209 RESOURCES PLANNING & DEVELOPMENT

The social, economic and political implications of the distribution, management and consumption of resource; evaluation of the impact of resource development on social and economic well-being and environmental quality; clarification of the concept of a just society in terms of resource development.

**Prerequisites:** HUB201, HUB200

**Credit Points:** 12      **Contact Hours:** 3 per week

## ■ HUB210 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:** 12      **Contact Hours:** 3 per week

## ■ HUB300 MODERN POLITICAL IDEOLOGIES

Political values and the political spectrum; the problem with models; right wing ideologies: liberalism, social democracy; socialism; left wing ideologies: Marxist socialism, anarchism; emerging ideologies: feminism, environmentalism; residual ideologies: racism, imperialism.

**Credit Points:** 12      **Contact Hours:** 3 per week

## ■ HUB301 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:** 12      **Contact Hours:** 3 per week

## ■ HUB302 THE EMERGENCE OF CIVILISATION

The rediscovery of the ancient past; the growth of archeology; selected case studies of Egypt, Sumer, early Indian and Chinese civilisations.

**Credit Points:** 12      **Contact Hours:** 3 per week

## ■ HUB303 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:** 12      **Contact Hours:** 3 per week

## ■ HUB304 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.

**Prerequisites:** HUB315, HUB300, HUB301

**Credit Points:** 12      **Contact Hours:** 3 per week

## ■ HUB305 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:** 12      **Contact Hours:** 3 per week

## ■ HUB306 EUROPEAN STUDIES I

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:** 12      **Contact Hours:** 3 per week

## ■ HUB307 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 consolidation 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:** 12      **Contact Hours:** 3 per week

## ■ HUB308 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:** 12      **Contact Hours:** 3 per week

## ■ HUB309 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:** 12      **Contact Hours:** 3 per week

## ■ HUB310 HISTORY SEMINAR

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 history.

**Credit Points:** 12      **Contact Hours:** 3 per week

## ■ HUB311 THE STUDY OF HISTORY

An introduction to some of the key issues inherent in the study of history; the role and importance of history for contemporary society; examination of differing theories of history; the nature of the new history; evaluation of the importance of historical studies in the socialisation process.

**Credit Points:** 12      **Contact Hours:** 3 per week

## ■ HUB312 ASIAN STUDIES

Consideration of the nature of traditional Asian societies, the interface between occidental and oriental cultures both historically and in a contemporary context, and the emergence of modern Asian societies. It has been specifically designed for secondary school teachers with limited knowledge of Asia and Asian issues.

**Credit Points:** 12      **Contact Hours:** 3 per week

## ■ HUB313 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

**■ HUB314 INDONESIA: AUSTRALIA'S NEAR NEIGHBOUR**

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

**■ HUB315 INTRODUCTION TO 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:** 12 **Contact Hours:** 3 per week

**■ HUB317 MODERN EUROPEAN STUDIES**

Major aspects of 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:** 12 **Contact Hours:** 3 per week

**■ HUB318 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:** 12 **Contact Hours:** 3 per week

**■ HUB319 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

**■ HUB400 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:** 12 **Contact Hours:** 3 per week

**■ HUB401 FRENCH LANGUAGE 2**

Extension of HUB400.

**Prerequisite:** HUB400

**Credit Points:** 12 **Contact Hours:** 3 per week

**■ HUB402 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:** HUB401

**Credit Points:** 12 **Contact Hours:** 3 per week

**■ HUB403 FRENCH LANGUAGE & LITERATURE 2**

Continuing development of the four language skills; studies in conflict in French literature.

**Prerequisite:** HUB402

**Credit Points:** 12 **Contact Hours:** 3 per week

**■ HUB404 FRENCH LANGUAGE & LITERATURE 3**

Continuing development of the four language skills; studies in relationships between men and women in French literature.

**Prerequisite:** HUB403

**Credit Points:** 12 **Contact Hours:** 3 per week

**■ HUB405 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:** HUB404

**Credit Points:** 12 **Contact Hours:** 3 per week

**■ HUB406 ITALIAN LANGUAGE 1**

Functional development of the four language skills; systematic study of Italian grammar to consolidate language structures.

**Credit Points:** 12 **Contact Hours:** 4 per week

**■ HUB407 ITALIAN LANGUAGE 2**

Extension of HUB406.

**Prerequisite:** HUB406

**Credit Points:** 12 **Contact Hours:** 4 per week

**■ HUB408 ITALIAN LANGUAGE & LITERATURE 1**

Italian grammar; writing, listening and speaking skills; reading of prose and poetry; reading and performance of a play.

**Prerequisite:** HUB407

**Credit Points:** 12 **Contact Hours:** 3 per week

**■ HUB409 ITALIAN LANGUAGE & LITERATURE 2**

Difficult aspects of Italian grammar; systematic study of the literature of the Middle Ages.

**Prerequisite:** HUB408

**Credit Points:** 12 **Contact Hours:** 3 per week

**■ HUB410 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:** HUB409

**Credit Points:** 12 **Contact Hours:** 3 per week

**■ HUB411 ITALIAN LANGUAGE & LITERATURE 4**

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:** HUB410

**Credit Points:** 12 **Contact Hours:** 3 per week

**■ HUB412 GERMAN 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:** 12      **Contact Hours:** 3 per week

**■ HUB413 GERMAN LANGUAGE 2**

Extension of HUB412.

**Prerequisite:** HUB412

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ HUB414 GERMAN LANGUAGE & LITERATURE 1**

Development of the four writing skills and introduction to some easy modern German literature.

**Prerequisite:** HUB413

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ HUB415 GERMAN LANGUAGE & LITERATURE 2**

In addition to the development of the four language skills, it concentrates on the study of the modern novel.

**Prerequisite:** HUB414

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ HUB416 GERMAN LANGUAGE & LITERATURE 3**

Further development of German language and literature, especially poetry and drama. It introduces students to German radio, cinema and television.

**Prerequisite:** HUB415

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ HUB417 GERMAN LANGUAGE & LITERATURE 4**

Continuing development of language skills; German literature in the past and the history of the German language.

**Prerequisite:** HUB416

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ HUB418 LOTE 1**

Students develop the ability to communicate in Indonesian, Japanese and German in a variety of situations and gain a better understanding of the sociocultural aspects of the target culture.

**Credit Points:** 8      **Contact Hours:** 3 per week

**■ HUB419 LOTE 2**

This subject focuses on furthering students' proficiency in a LOTE using communicative teaching techniques as outlined in the ALL guidelines. The major emphasis of the teaching program, expressed at an holistic level, relates to communication. Learners should be able to compose and comprehend a LOTE in both written and spoken modes in a range of genres and contexts and at a higher level of complexity than LOTE, Level 1. This is done through lectures, workshops, tutorials and language tapes.

**Prerequisite:** HUB418

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ HUB500 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 inter-relationship between the local community and broader community groups.

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ HUB501 INTRODUCTION TO THE SOCIAL SCIENCES**

Principle 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:** 12      **Contact Hours:** 3 per week

**■ HUB502 ABORIGINAL & TORRES STRAIT ISLANDER 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:** 12      **Contact Hours:** 3 per week

**■ HUB503 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:** 12      **Contact Hours:** 3 per week

**■ HUB504 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 and non-government groups.

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ HUB505 SOCIAL SCIENCE SEMINAR**

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:** 12      **Contact Hours:** 3 per week

**■ HUB506 INTRODUCTION TO AUSTRALIAN POLITICS**

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:** 12      **Contact Hours:** 3 per week

**■ HUB507 CONSUMERISM**

The nature of the consumer society and its underlying values; 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:** 12      **Contact Hours:** 3 per week

**■ HUB508 PACIFIC ISLAND HISTORY (SINCE 1945)**

National identity and nationhood; western and indigenous attempts to create a regional identity through political, cultural and economic relationships; continuing presence of neo-colonial influences including language, tourism, aid. A study of contemporary

events of importance to Pacific Island people, eg. militarism, cultural transmission via TV, land rights, independence, sovereignty. Students undertake an independent study of an area covered in the program.  
**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ IFB880 PROJECT

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:** 24      **Contact Hours:** 3 per week

### ■ IFN001 ADVANCED INFORMATION RETRIEVAL SKILLS

This subject provides postgraduate research students with the skills to implement a thorough literature search in their research area and to set up a personal system for managing the references collected. The seven modules which form this subject include: using the QUT libraries; indexing and abstracting services; electronic information retrieval; developing a current awareness strategy; thesis writing; personal file management; evaluating information.

**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 prescribed 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 the 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 involved in the course.

**Credit Points:** 8      **Contact Hours:** 2 per week

### ■ ISB014 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

### ■ ISB019 SYSTEMS ANALYSIS & DESIGN

Information systems and their development; the systems development life cycle; project management; structured analysis, design tools and techniques; security and controls; systems documentation; system conversion; testing implementation planning and user training.

**Prerequisite:** ISB014

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ ISB030 SYSTEMS DEVELOPMENT PROJECT

The design, development and implementation of a computer-based system; demonstration of the working system.

**Prerequisites:** ISB019 and subjects as required by supervisor.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ ISB038 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:** ISB089

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ ISB089 COMMERCIAL SYSTEMS DEVELOPMENT

Production of reliable software; standards and documentation; programming for large systems; managing software development; programming using advanced COBOL.

**Prerequisite:** ISB095 or ISB014

**Credit Points:** 12      **Contact Hours:** 4 per week

### ■ ISB090 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:** ISB014

**Credit Points:** 12      **Contact Hours:** 4 per week

### ■ ISB091 INDUSTRY PROJECT

Individual work related to an application of computers in business or other approved area.

**Prerequisite:** ISB085 or ISB019 plus subjects as required.

**Credit Points:** 12      **Contact Hours:** 4 per week

### ■ ISB093 SYSTEMS PLANNING

Information system classifications; corporate modelling and data base developments; management of information system development; costing and development strategies; information systems trends.

**Prerequisites:** (ISB090 or CSB012) or (ISB019 or ISB085)

**Credit Points:** 12      **Contact Hours:** 4 per week

### ■ ISB095 COMMERCIAL APPLICATIONS DEVELOPMENT

Development of algorithms; program design; programming style; structured programming concepts; file processing; report generation; practical programming using COBOL.

**Prerequisite:** CSB011

**Credit Points:** 12      **Contact Hours:** 4 per week

### ■ ISB097 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:** ISB014 or equivalent

**Credit Points:** 12      **Contact Hours:** 4 per week

### ■ ISB098 DATABASE SYSTEMS 2

Advanced database concepts; performance and reliability criteria; recovery, integrity, concurrency and security; optimisation techniques; distributed database systems.

**Prerequisite:** ISB090

**Credit Points:** 12      **Contact Hours:** 4 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 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

An introduction to the core elements of information management emphasising information as an essential organisational resource required by management to meet organisational goals and objectives. 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

#### ■ ISB180 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:** 12      **Contact Hours:** 3 per week

#### ■ ISB183 INTRODUCTION TO COMPUTERS IN PLANNING

The use of computers in planning, including benefits and problems; computing facilities available at QUT, particularly PCs. Overview of computers; problems and advantages of computer use; 'hands on' experience in using QUT's computer facilities; gaining access, file structures, information storage and retrieval, editing and related utility functions; flow-charting and programming logic. Simple programming exercises. Spreadsheets and databases. Geographical Information Systems. Word processing on microcomputers.

**Credit Points:** 4      **Contact Hours:** 2 per week

#### ■ ISB201 INFORMATION SYSTEMS ANALYSIS & DESIGN 1

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

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 or ISB182

**Credit Points:** 9      **Contact Hours:** 3 per week

#### ■ ISB204 INFORMATION MANAGERS AND THE LAW

The legal environment of computing is examined with reference to protection, intellectual property, copyright legislation and patent processes, computer contracts and crime. Implications of computer data use with respect to evidence, privacy, freedom of information and flow of data are considered. Use of computers in legal practice and use of legal databases are studied with particular reference to INFO-One.

**Credit Points:** 9      **Contact Hours:** 3 per week

#### ■ ISB210 INFORMATION SYSTEMS ANALYSIS & DESIGN 2

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.

**Credit Points:** 9      **Contact Hours:** 3 per week

#### ■ 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 techniques. 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; storage and retrieval media; computer conferencing.

**Credit Points:** 9      **Contact Hours:** 3 per week

#### ■ ISB216 POLITICAL & SOCIAL ASPECTS OF INFORMATION TECHNOLOGY

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

### ■ ISB281 INFORMATION SYSTEMS ANALYSIS & DESIGN 1

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

Introduction to the fundamentals and syntax of a procedural computer programming language (eg, COBOL), examining 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 2

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 equivalent

**Credit Points:** 12      **Contact Hours:** 4 per week

### ■ ISB300 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

### ■ 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

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:** ITB501

**Credit Points:** 9      **Contact Hours:** 3 per week

### ■ ISB304 PROJECT WORK

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 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

### ■ 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

### ■ ISB313 EXPERT INFORMATION SYSTEMS

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

### ■ 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:** 8      **Contact Hours:** 3 per week

### ■ ISB385 MICROCOMPUTER SOFTWARE APPLICATIONS

This subject is designed to provide a basic understanding of commercial microcomputer systems as they relate to applied 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 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

### ■ 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:** 2 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. (Note: This subject is not compatible with CSB306 or ISB283; credit may not be retained for both.)

**Prerequisites:** CSB155, ISB892

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ ISB863 DATABASE THEORY & TECHNIQUES

Logical and physical models of information systems; the characteristics of these models; use of a structured query language to query existing curriculum databases and construct new ones; the sociological implications of the utilisation of public and private databases.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ ISB865 INFORMATION SYSTEM MODELLING

Modelling of information systems, in particular relational systems; fact oriented approaches; conceptual schema design.

**Pre/Co-requisite:** ISB863

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ ISB892 BUSINESS COMPUTING

This subject provides business students with a practical understanding of computers as used in various business environments and an introduction to the theory of hardware, software, types of processing and data storage methods. The emphasis of this subject is to give business students a thorough understanding of the role of computing in business, the efficient design and implementation of microcomputer software solutions (wordprocessing, spreadsheets and databases) to specific business problems, and an understanding of the implications of computers for business in terms of security, privacy, legal issues and current developments.

**Credit Points:** 12      **Contact Hours:** 4 per week

### ■ 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 1

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

### ■ 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

Addresses the most significant issues and activities of the Human Computer Interface (HCI) and software design; includes the perceptual basis of 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 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

### ■ ISN201 RESEARCH METHODOLOGY

Topics of research by agreement between the student and a faculty staff member acting as a project supervisor. Students must attend lectures/seminars of approximately one 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

### ■ ISN211 HONOURS PROJECT

This subject is a continuation and completion of the research project initiated for ISN201.

**Credit Points:** 12

### ■ 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 inter-relationship 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:** ISN201

**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 2

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

#### ■ ISN401 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

#### ■ ISN500 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:** 96

#### ■ ISP100 THE COMPUTER SYSTEM

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; 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.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ ISP113 PRINCIPLES OF INFORMATION MANAGEMENT

An introduction to the core elements of information management emphasising information as an essential organisational resource required by management to meet organisational goals and objectives. 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 includes practical work on VAX, PCs or HP9000.

**Prerequisites:** ISP100 and ISP101

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ ISP313 EXPERT INFORMATION SYSTEMS

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 or ISP200

**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 competence in the evaluation and acquisition of a computer system. It covers 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

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

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 covers 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); intelligent DSS.

**Prerequisite:** ISB281

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ ISP383 OFFICE INFORMATION SYSTEMS

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:** ITB508 or ITP501 or equivalent

**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 covers a review of programming principles; fundamentals of COBOL; commercial data processing systems; data structures, serial and random file processing; and includes 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 document 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, microcomputers and reference work.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ ISP437 SPECIAL TOPIC - LIBRARY SCIENCE

This subject allows for the 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 ON-LINE 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; includes development of on-line 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.

**Prerequisite:** ISP101

**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; 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

#### ■ ISP811 BOOKS & PUBLISHING

Artistic and historical evolution of the book; judgment of book format through an understanding of production processes; techniques of printing; elements of the book; complexities of the publishing business, past and present.

**Credit Points:** 12

#### ■ ISP855 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:** 3 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

## ■ ISX026 COMMERCIAL PROGRAMMING

Modular programming; structured design; introduction to COBOL programming; basic elements of COBOL, report generation, control breaks, tables, disk file processing.

**Prerequisite:** CSX035

**Credit Points:** 12      **Contact Hours:** 4 per week

## ■ ISX027 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:** CSX025

**Credit Points:** 12      **Contact Hours:** 4 per week

## ■ ISX029 MICROCOMPUTERS: HARDWARE & APPLICATIONS

Overview of microcomputer systems; microprocessors; operating system functions on microcomputers; application packages and programming on microcomputers; evaluation and selection.

**Prerequisites:** CSX025, CSX035

**Credit Points:** 12      **Contact Hours:** 4 per week

## ■ ISX032 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:** CSA025

**Credit Points:** 12      **Contact Hours:** 4 per week

## ■ ISX033 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:** ISX032

**Credit Points:** 12      **Contact Hours:** 4 per week

## ■ ISX034 PROJECT

Individual work related to an application of computers in business or other approved area.

**Prerequisites:** ISX027 and other subjects as required.

**Credit Points:** 12

## ■ ISX036 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:** ISX027

**Credit Points:** 12      **Contact Hours:** 4 per week

## ■ ITB099 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

## ■ ITB311 ADVANCED DATA COMMUNICATIONS

Advanced material in data communications; 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 versus regulation).

**Prerequisite:** ITB501

**Credit Points:** 9      **Contact Hours:** 3 per week

## ■ ITB501 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

## ■ ITB503 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:** ITB501, ITP501 or ITB508

**Credit Points:** 9      **Contact Hours:** 3 per week

## ■ ITB508 DATA COMMUNICATIONS

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.

**Credit Points:** 12      **Contact Hours:** 4 per week

## ■ ITB604 PRACTICE 1A (IT32)

## ■ ITB605 PRACTICE 3A (CS28)

## ■ ITB606 PRACTICE 3A (IS10)

## ■ ITB607 PRACTICE 3A (IS43)

## ■ ITB612 PRACTICE 5A (CS28)

## ■ ITB613 PRACTICE 1A (IF22)

## ■ ITB625 PRACTICE 3A (IF22)

## ■ ITB654 PRACTICE 2A (IT32)

## ■ ITB655 PRACTICE 4A (CS28)

## ■ ITB656 PRACTICE 4A (IS10)

## ■ ITB657 PRACTICE 4A (IS43)

- ITB609 PRACTICE 1B (IT32)
- ITB610 PRACTICE 3B (CS28)
- ITB611 PRACTICE 3B (IS10)
- ITB612 PRACTICE 3B (IS43)
- ITB622 PRACTICE 5B (CS28)
- ITB630 PRACTICE 1B (IF22)
- ITB660 PRACTICE 4B (CS28)
- ITB661 PRACTICE 4B (IS10)
- ITB662 PRACTICE 4B (IS43)
- ITB663 PRACTICE 2B (IT32)
- ITB675 PRACTICE 4A (IF22)
- ITB680 PRACTICE 2B (IF22)
- ITB681 PRACTICE 4B (IF22)

Designed to coordinate the practical aspects of the lecture material presented each semester so that students develop both 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

- ITB600 PRACTICE 3 (CS28)
- ITB601 PRACTICE 3 (IS10)
- ITB602 PRACTICE 3 (IS43)
- ITB603 PRACTICE 1 (IT32)
- ITB653 PRACTICE 2 (IT32)
- ITB650 PRACTICE 4 (CS28)
- ITB651 PRACTICE 4 (IS10)
- ITB652 PRACTICE 4 (IS43)
- ITB602 PRACTICE 5 (CS28)

Designed to coordinate the practical aspects of the lecture material presented each semester so that students develop both 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

#### ■ ITB900 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

#### ■ ITN311 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

#### ■ ITN502 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

#### ■ ITN550 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.

**Prerequisite:** ITN502

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ ITP501 DATA COMMUNICATIONS

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/Co-requisite:** CSP112 or ISP100

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ JSB101 CONTEMPORARY ISSUES IN AUSTRALIAN SOCIETY I

Perspectives in sociology, major approaches in sociology; social structures: ethnicity, racism, aboriginality, patriarchy, feminism, the family, family violence; economic organisation: international economic order, class, wealth, poverty, work; the environment; the future.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ JSB102 SOCIAL ETHICS & THE JUSTICE SYSTEM

The ethical domain, the significance of ethics for the criminal justice system. The topics addressed are: what is ethics?; what is justice?; justice reasoning; human rights; an ethic of care; an ethic of empowerment; criminal justice work; the role of the police; the ethics of punishment and correction; being ethical.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ JSB103 INTRODUCTION TO THE LEGAL SYSTEM

Law and society; development of the Australian legal system; sources of our law; statutory interpretation; dispute resolution; a critical perspective of the legal

system; introduction to the criminal justice process; investigation, adjudication and corrections; disadvantaged groups; the criminal justice process post-Fitzgerald.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ JSB104 COMMUNICATION FOR JUSTICE PROFESSIONALS

Methodology and techniques in communication: emphasis on application in the law enforcement and justice professions; feelings; perception and analysis; interpersonal communication: cultural and ethnic minorities; Aboriginal people; special needs groups; interviewing: theory and practice; practical, oral and written tasks.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ JSB105 PERSONAL & INTERPERSONAL RELATIONSHIPS

Self-concept, self-esteem, self-image and their relationships to personal styles; expression formation; interpersonal effectiveness and self-disclosure including related skills application; human sexuality as a central force in interactional situations; co-dependency, assertion and component skills development; conflict resolution; negotiation and aggression; conflict negotiation and the legal system; suicide; associated issues, skills development and application.

**Prerequisite:** JSB104

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ JSB106 HUMAN RESOURCE MANAGEMENT IN JUSTICE ADMINISTRATION

Understanding of organisations; structure of organisations; behaviour of individuals within organisations; selected management practices and techniques within the major institutions which make up the criminal justice system.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ JSB107 INTRODUCTION TO CRIMINOLOGY

Legal and criminological conceptions of crime: nature, scope and objects of criminology. Criminological theory: classical and neo-classical theories; the positivist school; physical and biological factors and theories; psychological and psychiatric explanations; crime as a social phenomenon; radical or critical criminology. Key issues in criminology; juvenile crime; Aborigines in the criminal justice system; Royal Commission into Aboriginal Deaths in Custody; reforming the correctional system; impact of incarceration on offenders; victims of crime; white-collar and corporate crime; privacy.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ JSB110 INTRODUCTION TO PROFESSIONAL STUDIES: POLICE SYSTEMS

The history of policing dating from 18th century England, through colonisation in Australia to the present day; the role and function of policing and its transitions; community-based policing and a comparative view of selected policing jurisdictions.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ JSB111 INTRODUCTION TO PROFESSIONAL STUDIES: INTELLIGENCE SYSTEMS

Determining thinking and learning styles; development of metacognitive skills; the meaning and principles of intelligence and protective security; producing intelligence through collection management, collation, evaluation, integration, analysis and

interpretation of data; dissemination of the intelligence product; application of personal and interpersonal skills.

**Prerequisites:** JSB101, JSB102, JSB103, JSB104 (or equivalent).

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ JSB201 PRINCIPLES OF CRIMINAL LAW 1

History and theory of criminal law; the role of criminal law and concepts of justice; concepts in criminal law; comparative criminal law; development and administration of criminal law in Queensland; legal research.

**Prerequisite:** JSB103

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ JSB202 CONTEMPORARY ISSUES IN AUSTRALIAN SOCIETY 2

Theory and practice of social research; development of theory; applying social theory; main trends in sociological thought; social justice issues.

**Prerequisite:** JSB101

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ JSB203 HUMAN DYNAMICS: THE JUSTICE SYSTEM

Human factors and crime evolving personality; inherited factors, morality and moral development, human dynamics and the police focusing on perception, recognition and identification; human dynamics in relation to the courts including the concepts of memory and its effects on evidence, eye witness testimony, juror selection and reliability, and reaching a verdict – the process and consensus; human dynamics and crime prevention, focusing on offender rehabilitation and individual and societal reactions to them, changing the environment by reducing opportunities for crime, increasing risks of detection, and community education.

**Prerequisite:** JSB105

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ JSB204 PRINCIPLES OF CRIMINAL LAW 2

Issues and problems of justice in contemporary criminal law: parties, proof, intent, responsibility, defences; the Queensland Criminal Code; legal research.

**Prerequisite:** JSB201

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ JSB205 CRIMINOLOGY 2

Contemporary criminological constructs and debate; theories of punishment and sentencing; reforming the criminal justice system.

**Prerequisite:** JSB107

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ JSB210 PROFESSIONAL STUDIES 1: LAW ENFORCEMENT PROCEDURE & PRACTICE

Aspects of the role and function of policing; enforcement practices: non-arrest, arrest situations including supporting documentation; evidentiary sources and gathering methodology; crime trends and their impact on policing practices.

**Prerequisite:** JSB110

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ JSB211 PROFESSIONAL STUDIES 1: INTELLIGENCE I

Detailed study and application of the intelligence process (cycle); study of intelligence support to operational staffs and organisations; strategic, operational and tactical concepts of intelligence and security; threat and risk assessment relative to protective

security – personnel, materials and infrastructure; industrial and commercial espionage and sabotage.

**Prerequisite:** JSB111 (or equivalent)

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ JSB212 PROFESSIONAL STUDIES 2: LAW ENFORCEMENT & INTERPROFESSIONAL COOPERATION

The role and function of policing in conjunction with other community agencies, particularly emergency service agencies; the cooperation necessary and the awareness of reciprocal roles and functions in given situations.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ JSB213 PROFESSIONAL STUDIES 2: INTELLIGENCE 2

The conduct of protective security audits in personnel, material and infrastructure areas; application of protective security to conferences, VIP protection and witness protection; access control and layered security.

**Prerequisite:** JSB211

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ JSS001 THE LAW & LEGAL INSTITUTIONS

This subject will provide students with a sound knowledge of relevant legal institutions and procedures, as well as assist students to develop an ability to analyse and critique both the strengths and weaknesses inherent in our legal system. In so doing, the subject will trace the development of law in Australia from its early beginnings to the present, as an outcome of meeting the needs of a changing society.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ JSS005 INDIVIDUAL LEGAL RESPONSIBILITIES

The major areas of law affecting a person upon attaining the age of eighteen years. The main areas considered in terms of individual legal responsibilities will be employment, family responsibilities, and the renting and buying of a house. Consideration is also given to the social context in which various statute laws are embedded.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ JSX101 REPORTING 1

Introduction to basic computer-compatible machine shorthand theory and elementary court, literary and parliamentary material; the functions and responsibilities of professional court and parliamentary reporters in public and private sectors.

**Credit Points:** 24      **Contact Hours:** 10 per week

#### ■ JSX102 REPORTING 2

Consolidation and reinforcement of the machine shorthand theory learnt in JSX101. Emphasis is placed on speed development and vocabulary expansion. Students are instructed in court and parliamentary reporting techniques and procedures, and are introduced to legal, medical and technical terminology.

**Prerequisite:** JSX101

**Credit Points:** 36      **Contact Hours:** 14 per week

#### ■ JSX201 REPORTING 3

The emphasis is on speed development and court and parliamentary reporting practices. Students are exposed to a broad range of subject matter and gain experience in reporting material from many jurisdictions. Students develop familiarity with medical terminology and with a large range of specialised terms used in areas of diverse interest.

**Prerequisite:** JSA102

**Credit Points:** 36      **Contact Hours:** 16 per week

#### ■ JSX202 REPORTING 4

Further development and refinement of students' high-speed shorthand writing and transcription skills. Students concentrate on multi-voice testimony and note editing for parliamentary work. For successful completion of the subject, students must attain a machine shorthand writing speed of 200 wpm with 98% transcription accuracy.

**Prerequisite:** JSX201

**Credit Points:** 24      **Contact Hours:** 12 per week

#### ■ JSX203 WORKPLACE EXPERIENCE

Students use the reporting skills developed in earlier semesters in an on-the-job context in the State District and Supreme Courts, and Queensland Parliament. Lectures cover development of interpersonal skills in the work environment and include orientation sessions at the Court Reporting Bureau and State Hansard. Students alternate between reporting at the Court Reporting Bureau and Hansard, and participating in transcription sessions on campus.

**Prerequisite:** JSX201

**Co-requisite:** JSX202

**Credit Points:** 12      **Contact Hours:** 6 per week

#### ■ LAB002 ADULT LITERACY

Introduction to adult literacy and provisions for further training; teaching and working with a client under the supervision of the lecturer, reflecting on each teaching session with the client.

**Credit Points:** 8      **Contact Hours:** 3 per week

#### ■ LAB003 STUDY OF LANGUAGE

Examination of the development of English with a view to increasing the teacher's understanding of how language works, particularly in the written mode; studies of the developing grammars and vocabulary of English are undertaken to enhance the teacher's knowledge of linguistic terminology and to contribute to improved understanding of writing; introduction to traditional grammar and to the modern functional grammars; considerations of usage and style.

**Credit Points:** 4      **Contact Hours:** 2 per week

#### ■ LAB004 LANGUAGE & COMMUNICATION

The nature and function 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:** 8      **Contact Hours:** 2 per week

#### ■ LAB005 STORYTELLING IN VARIOUS MEDIA

Function of storytelling with young children; selecting stories to tell from a range of traditional, contemporary story and non-story sources; storytelling techniques; planning storytelling across the curriculum.

**Credit Points:** 8      **Contact Hours:** 2 per week

#### ■ LAB223 LANGUAGE EDUCATION 1

Language as a cultural and social phenomenon: language in terms of cultural and social situations which generate oral, written and media texts; the different cultural values of texts. The language learner and user; the aim of language education. Students as language users: competency as a language user; reflection on effectiveness and appropriateness of language use; application of competencies in the classroom.

**Credit Points:** 8      **Contact Hours:** 3 per week

## ■ LAB230 LANGUAGE EDUCATION 2

Extension of the language concepts developed in LAB223 and introduction to language teaching. Focus of the school setting with an emphasis on the design, implementation and evaluation of effective language programs in schools.

**Prerequisite:** LAB223

**Credit Points:** 12 **Contact Hours:** 3 per week

## ■ LAB260 LITERATURE & EDUCATION 1

Study of a range of adult literature from different sociocultural contexts. Adolescent and children's literature reflecting changing sociocultural values. Examination of ways in which historical changes in concepts of childhood are reflected in stories written for children. Aspects of literature which remain constant and examination of some of these archetypes in traditional and contemporary literature.

**Credit Points:** 8 **Contact Hours:** 3 per week

## ■ LAB261 LITERATURE & EDUCATION 2

Continuation of LAB260. Exploring how the language of childhood experiences and everyday interaction are translated into art forms in novels, plays and poetry. Examination of how the literature of different times and different cultures reflects the appropriate culture. Students have the opportunity to concentrate on the study of literature or on the development of their own writing.

**Prerequisite:** LAB260

**Credit Points:** 12 **Contact Hours:** 3 per week

## ■ LAB262 LITERATURE & EDUCATION 3

This advanced subject requires students to use the work done in previous subjects in three ways: to engage in an area of specialised study not completely covered in earlier subjects; to select an aspect of their specialised study for independent reading and research over a range of genre and styles; and to present their work to their peers in a seminar format.

**Prerequisite:** LAB261

**Credit Points:** 12 **Contact Hours:** 3 per week

## ■ LAB270 LOTE EDUCATION

The development of classroom applications, strategies, resources, evaluation techniques for the teaching of languages other than English, through an application of knowledge from prerequisite subjects.

**Prerequisites:** LAB223, LAB230

**Credit Points:** 8 **Contact Hours:** 3 per week

## ■ LAB271 LOTE 3

At this level students are able to deal with more complex sociocultural information. In addition they broaden their target language resource as well as develop an ability to use it; use more complex language structures and broader vocabulary; develop fluency; expand and fine-tune registers, genres, etc. and develop more theoretical/abstract discourse as the need arises in activities related to content within their conceptual range.

**Prerequisite:** HUB419

**Credit Points:** 12 **Contact Hours:** 3 per week

## ■ LAB320 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:** 12 **Contact Hours:** 3 per week

## ■ LAB321 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.

**Prerequisite:** LAB320

**Credit Points:** 12 **Contact Hours:** 3 per week

## ■ LAB322 LITERATURE IN TEACHING

Literature teaching in historical perspective; recent developments in theory; poetry in the senior school; appropriateness to teaching drama in the senior school; teaching the novel in the senior school; shorter works (novellas, short stories) and their use in the English curriculum.

**Credit Points:** 12 **Contact Hours:** 3 per week

## ■ LAB323 ADOLESCENT & 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 of promoting and using young adult books in the curriculum.

**Prerequisite:** HUB100

**Credit Points:** 12 **Contact Hours:** 3 per week

## ■ LAB350 ENGLISH CURRICULUM & TEACHING STUDIES 1

Builds on CUB301 to give a greater understanding of the nature of English as an applied curriculum area. Provides insights into relevant Queensland syllabus and curriculum documents, develops competencies in planning and teaching and makes close links with teaching practice.

**Prerequisites:** CUB301 and at least 48 credit points in each relevant discipline area.

**Credit Points:** 8 **Contact Hours:** 3 per week

## ■ LAB351 ENGLISH CURRICULUM & TEACHING STUDIES 2

Studied in association with CUB302. Provides opportunities for consideration and practical application of broad curricular and teaching principles and systems policies within the more specific context of this curriculum area. As with CUB302, establishes principles which will be used to guide school experience during teaching practice and also as a beginning teacher.

**Prerequisite:** LAB350

**Co-requisites:** CUB302, EDB302

**Credit Points:** 12 **Contact Hours:** 3 per week

## ■ LAB352 ENGLISH CURRICULUM & TEACHING STUDIES 3

Last in the Curriculum and Teaching Studies series with a major focus on contemporary issues and emerging trends pertaining to curriculum development in this curriculum area. Includes study of advanced planning and teaching strategies and provides opportunities for application of planning and teaching skills during practice teaching.

**Prerequisites:** LAB350, LAB351, CUB302

**Credit Points:** 8 **Contact Hours:** 3 per week

## ■ LAB353 FILM & MEDIA STUDIES CURRICULUM & TEACHING STUDIES 1

Builds on CUB301 to give a greater understanding of the nature of film and media studies as an applied

curriculum area. Provides insights into relevant Queensland syllabus and curriculum documents, develops competencies in planning and teaching and makes close links with teaching practice.

**Prerequisites:** CUB301 and at least 48 credit points in each relevant discipline area.

**Credit Points:** 8      **Contact Hours:** 3 per week

#### ■ LAB354 FILM & MEDIA CURRICULUM & TEACHING STUDIES 2

Studied in association with CUB302. Provides opportunities for consideration and practical application of broad curricular and teaching principles and systems policies within the more specific context of this curriculum area. As with CUB302, establishes principles which are used to guide school experience during teaching practice and also as a beginning teacher.

**Prerequisite:** LAB353

**Co-requisites:** CUB302, EDB302

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ LAB355 FILM & MEDIA CURRICULUM & TEACHING STUDIES 3

Last in the Curriculum and Teaching Studies series with a major focus on contemporary issues and emerging trends pertaining to curriculum development in this curriculum area. Includes study of advanced planning and teaching strategies and provides opportunities for application of planning and teaching skills during practice teaching.

**Prerequisites:** LAB353, LAB354, CUB302

**Credit Points:** 8      **Contact Hours:** 3 per week

#### ■ LAB356 LOTE CURRICULUM & TEACHING STUDIES 1

Builds on CUB301 to give a greater understanding of the nature of LOTE as an applied curriculum area. Provides insights into relevant Queensland syllabus and curriculum documents, develops competencies in planning and teaching and makes close links with teaching practice.

**Prerequisites:** CUB301 and at least 48 credit points in each relevant discipline area.

**Credit Points:** 8      **Contact Hours:** 3 per week

#### ■ LAB357 LOTE CURRICULUM & TEACHING STUDIES 2

Studied in association with CUB302. Provides opportunities for consideration and practical application of broad curricular and teaching principles and systems policies within the more specific context of this curriculum area. As with CUB302, establishes principles which are used to guide school experience during teaching practice and also as a beginning teacher.

**Prerequisite:** LAB356

**Co-requisites:** CUB302, EDB302

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ LAB358 LOTE CURRICULUM & TEACHING STUDIES 3

Last in the Curriculum and Teaching Studies series with a major focus on contemporary issues and emerging trends pertaining to curriculum development in this curriculum area. Includes study of advanced planning and teaching strategies and provides opportunities for application of planning and teaching skills during practice teaching.

**Prerequisites:** MDB362, MDB363, CUB302

**Credit Points:** 8      **Contact Hours:** 3 per week

#### ■ LAB410 LANGUAGE CURRICULUM ISSUES

This subject is designed for primary and secondary teachers. It involves a critical examination of the

issues underpinning language education today and an action research project into classroom innovation or a detailed child study of language development.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ LAB440 THE TEACHER & THE WRITING PROCESS

Development of writing in the light of the language in use model, recent research, and classroom practice. It is designed for the teacher P-12. Students are expected to develop their own folio of writing, an understanding of current approaches to writing curriculum, and writing programs for their classrooms.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ LAB441 CHILDREN'S LITERATURE

Evaluative criteria in children's literature; genres; teaching strategies for promoting the use of children's literature; reader response theories.

**Prerequisite:** Language arts and literature studies at Diploma of Teaching level.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ LAB442 TUTORING PARENTS AS LITERACY TUTORS

Parents are the most valuable resource available to teachers in the nineties. Today, with more emphasis on involving parents in all areas of decision making in schools, it is vital that teachers can communicate proficiently with parents of all educational and socioeconomic backgrounds. This subject provides background knowledge and practice in the skills and knowledge required for successful tutoring of parents as literacy tutors of their children, both in the classroom and at home.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ LAB443 TRENDS IN THE TEACHING OF READING

This subject provides students with the opportunity to extend their understanding of the reading process. It examines current views about reading in order to identify key concepts of the theory. From this the implications for classroom practice are drawn. It also identifies factors which influence readers and texts. The roles these play in the understanding of the meanings made are discussed. Learning situations based on these understandings are developed.

**Prerequisite:** Studies in the teaching of reading at Diploma of Teaching level.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ LAB444 LEARNING TO READ THROUGH READING/Writing

Development of the teachers' understanding of the importance of teaching children how to use language to learn. Students are presented with recent research into the topic, a range of strategies for empowering children to use language to learn, as well as the requirement to apply this knowledge in a classroom setting.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ LAB445 LANGUAGE LEARNING THROUGH FLIP

This subject is designed for students who fulfil guidelines 6.1 and 6.2 of FLIP. As well as presenting a learning log, students develop an action research project in language/literacy and report on that project (preferably in a symposium). In their report, students are expected to display a critical understanding of the issues in language curriculum relevant to their research.

**Credit Points:** 12      **Contact Hours:** 3 per week



#### ■ LAB446 GRAMMAR FOR WRITERS

This subject is designed to help teachers develop some systematic knowledge about language and grammar in particular. It looks at the questions: what is grammar?; what grammars are available to us? It then focuses in some detail on systemic functional grammar.  
**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ LAB490 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 unit or program.  
**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ LAN601 FOUNDATIONS OF ENGLISH/ LANGUAGE ARTS EDUCATION

Theoretical and historical perspectives on the development of English/language arts curricula; current debates, theory and research in the teaching of reading, writing, listening, speaking and viewing in the context of the primary and secondary classrooms; programming and assessment in the English/language arts classroom; continuity and sequence in the teaching of English/language arts.  
**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ LAN602 LITERACY & SCHOOLING

Theoretical, historical and cultural models of literacy; literacy as a contemporary social and educational problem; literacy, gender and class; literacy and minority groups; literacy and changing theories of reading and writing; literacy and the curriculum; subject-specific literacies and whole-school literacy policies.  
**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ LAP420 COMMUNICATION CURRICULUM & TEACHING STUDIES A

An introduction to the principles and practices of the communication curriculum area subjects of English, film and media studies, journalism and applied communication studies in Queensland secondary schools. Within this curriculum area, students design and teach lessons appropriate to adolescents and young adults in schools.  
**Prerequisite:** Appropriate Discipline Studies in the undergraduate degree.  
**Co-requisite:** EDP450

**Credit Points:** 24      **Contact Hours:** 6 per week

#### ■ LAP421 ENGLISH CURRICULUM & TEACHING STUDIES B

Provides a theoretical context and considers practical applications in assessment, curriculum planning and teaching and learning strategies, and examines the roles of the teacher in the community and the profession.  
**Prerequisite:** LAP420

**Co-requisite:** EDP451  
**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ LAP422 FILM & TELEVISION CURRICULUM & TEACHING STUDIES B

This Curriculum B subject provides opportunities for students to critically examine and develop skills and understandings in significant areas of teaching and learning in film and television. It provides a theoretical context and considers practical applications in assessment, curriculum planning and teaching and learning strategies and examines the roles of the teacher in the community and the profession.  
**Prerequisite:** LAP420      **Co-requisite:** EDP451

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ LAP423 JUNIOR ENGLISH CURRICULUM & TEACHING STUDIES C

This Curriculum C subject offers studies which enable appropriately qualified students to teach junior English at lower levels of the secondary school. It allows the application of principles, skills and understandings which have been developed in the Curriculum A subject and which are expanded in the Curriculum B subject.  
**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ LAP424 TEACHING ENGLISH AS A SECOND LANGUAGE CURRICULUM & TEACHING STUDIES C

This Curriculum C subject provides opportunities for students with an appropriate background to prepare to teach English as a second language. It develops skills and understandings in planning, assessment and teaching and learning strategies, and builds on the general principles of the Curriculum A and B groups of subjects.  
**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ LAP430 LOTE CURRICULUM & TEACHING STUDIES A

A foundation subject for students wishing to teach foreign languages in the secondary and/or primary schools. Due emphasis is given to the learner-centred approach to languages teaching; teaching implications of the principles of language learning; basic teaching skills focussing on lesson organisation and catering for learner differences; resourcing the interactive classroom for whole class, group and individual learning.  
**Prerequisite:** Appropriate Discipline Studies in the undergraduate degree.  
**Co-requisite:** EDP450

**Credit Points:** 24      **Contact Hours:** 6 per week

#### ■ LAP431 CHINESE CURRICULUM & TEACHING STUDIES B

Provides a theoretical context and considers practical applications in assessment, curriculum planning and teaching and learning strategies, and examines the roles of the teacher in the community and the profession.  
**Prerequisite:** LAP430      **Co-requisite:** EDP451

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ LAP432 FRENCH CURRICULUM & TEACHING STUDIES B

Provides a theoretical context and considers practical applications in assessment, curriculum planning and teaching and learning strategies, and examines the roles of the teacher in the community and the profession.  
**Prerequisite:** LAP430      **Co-requisite:** EDP451

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ LAP433 GERMAN CURRICULUM & TEACHING STUDIES B

Provides a theoretical context and considers practical applications in assessment, curriculum planning and teaching and learning strategies, and examines the roles of the teacher in the community and the profession.  
**Prerequisite:** LAP430      **Co-requisite:** EDP451

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ LAP434 INDONESIAN CURRICULUM & TEACHING STUDIES B

Provides a theoretical context and considers practical applications in assessment, curriculum planning and teaching and learning strategies, and examines the roles of the teacher in the community and the profession.  
**Prerequisite:** LAP430      **Co-requisite:** EDP451

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ LAP435 ITALIAN CURRICULUM & TEACHING STUDIES B

Provides a theoretical context and considers practical applications in assessment, curriculum planning and teaching and learning strategies, and examines the roles of the teacher in the community and the profession.

**Prerequisite:** LAP430 **Co-requisite:** EDP451  
**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ LAP436 JAPANESE CURRICULUM & TEACHING STUDIES B

Provides a theoretical context and considers practical applications in assessment, curriculum planning and teaching and learning strategies, and examines the roles of the teacher in the community and the profession.

**Prerequisite:** LAP430 **Co-requisite:** EDP451  
**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ LAP437 LOTE IN THE PRIMARY SCHOOL CURRICULUM & TEACHING STUDIES C

This Curriculum C subject provides opportunities for students with an appropriate background to prepare to teach LOTE in the primary school. It develops skills and understanding in planning, assessment and teaching and learning strategies, and builds on the general principles of the Curriculum A and B groups of subjects.

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ LAP440 LANGUAGE & LITERACY 1

Developing and understanding the role language plays in society: appropriate language for different social purposes; the functions and structures of language; the range of genres. Language/literacy learning: initial learning of language; continued development of language/literacy. Approaches to language/literacy teaching: strategies for development of spoken and written language; language in use model and implications for teaching; other models on which the language education framework is based.

**Credit Points:** 8 **Contact Hours:** 3 per week

#### ■ LAP441 LANGUAGE & LITERACY 2

Promoting language learning: strategies for promoting language/literacy learning in the classroom; learning through and about language. Monitoring language growth: strategies for observing, monitoring language/literacy growth. Planning language/literacy programs: process of planning programs; organising the learning environment to promote language development. Independent study: students select an area and complete an independent study.

**Prerequisite:** LAP440  
**Credit Points:** 8 **Contact Hours:** 3 per week

#### ■ LAP501 FOUNDATIONS OF TEACHER-LIBRARIANSHIP

Philosophy and theories of teacher-librarianship and interpersonal communication necessary to be responsive to the needs of school communities and emerging educational trends.

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ LAP502 CURRICULUM & RELATED RESOURCES

Current curricula P-12: content and processes; evaluative criteria for the selection of materials across the curriculum; basic reference and information sources; collection development.

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ LAP503 LITERATURE & LITERACY: RESOURCES & STRATEGIES

Resources and strategies for teacher-librarians to enable them to work cooperatively with teachers in

language across the curriculum; developmental approach to reading and the selection of appropriate materials; genre studies; reader response theories; promotion strategies.

**Credit Points:** 12 **Contact Hours:** 2 per week

#### ■ LAP504 SCHOOL LIBRARY RESOURCES: ORGANISATION & ACCESS

School library administration and organisation systems, including computer applications; bibliographic organisation principles and procedures, and implications for self-directed learning; organisation and maintenance of, and access to, resources including equipment; field program, including school experience (3 weeks).

**Credit Points:** 12

#### ■ LAP505 COMMUNICATION & MANAGEMENT IN SCHOOL LIBRARY RESOURCE CENTRES

Extension of studies in management of school library resource centres; goal setting; time management, communication models; interpersonal and organisational communication patterns; problem solving and conflict management; innovation, intervention and change; advocacy and promotion; writing for a purpose.

**Credit Points:** 12

#### ■ LAP506 INFORMATION SERVICES FOR SCHOOLS

Implications of the information age; advanced reference skills; computer-based information services with in-depth study of two, selected by the student.

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ LAP507 AUSTRALIAN LITERATURE FOR YOUNG PEOPLE

History of Australian children's books to 1959; development and critical assessment of Australian children's literature since 1960 in book and film.

**Credit Points:** 12

#### ■ LAP508 BOOKS & PUBLISHING

Artistic and historical evolution of the book; judgment of book format through an understanding of production processes; techniques of printing; elements of the book; complexities of the publishing business, past and present.

**Credit Points:** 12

#### ■ LAP509 DIRECTED STUDY

An individually designed subject which allows students, under the supervision of a staff member, to increase their knowledge in a particular area relevant to teacher-librarianship.

**Credit Points:** 12

#### ■ LAP510 INTERACTIVE TECHNOLOGIES IN INSTRUCTION

Theories of interactive communications; interactive resources; videodisk; teleconferencing; computer conferencing and electronic mail; planning an instructional program.

**Credit Points:** 12

#### ■ LAP511 LITERACY EDUCATION & LIBRARIES

Educational role of libraries; literacy and basic education programs in libraries; literacy resource collections; multicultural library services; international developments.

**Credit Points:** 12

## ■ LAP512 LITERATURE FOR YOUNG PEOPLE

Historical development of imaginative literature; evolution of books for young people in present social and cultural contexts; writers and illustrators from European, Commonwealth and American countries; teaching strategies for eliciting a wide variety of reader responses.

**Credit Points:** 12

## ■ LAP513 MEDIA LITERACY & THE SCHOOL

Mass media communication processes and their implications for teaching and learning; semiotics; influences of media on people; advertising and mass media research techniques; media ownership issues; future trends in mass media technologies.

**Credit Points:** 12

## ■ LAP514 REFERENCE SERVICES & MATERIALS

Extension of studies in reference and information services relevant to schools; reference interview; using an existing school's resource collection; knowledge and use of information agencies and services external to the school. External with 3-day study school or six 2-hour evening sessions.

**Credit Points:** 12

## ■ LAP515 RESOURCE SERVICES FOR SPECIAL NEEDS

Resource services requirements of gifted and talented, intellectually handicapped and physically handicapped school students; implications of mainstreaming; equity issues.

**Credit Points:** 12

## ■ LAP516 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:** 12

## ■ LAP517 STORYTELLING

Function of the story and storytelling in learning and teaching; preparing, developing and delivering stories; story and non-story resources; storytelling across the curriculum.

**Credit Points:** 12

## ■ LAP518 VISUAL LITERACY & RESOURCE DESIGN

Concepts of visual literacy; learning styles; interpretation of visuals; design and evaluation of visually-based resources.

**Credit Points:** 12

## ■ LEB101 HUMAN SEXUALITY & LEARNING

Physical and psychological development; attitudes and beliefs about sex; sexuality and sex education in childhood and adolescence; sex roles; contraception, sexually transmitted diseases, sexuality, disability and illness; sexual abuse of children; sexual dysfunction; pregnancy; abortion; sex education in schools.

**Credit Points:** 8 **Contact Hours:** 2 per week

## ■ LEB240 DEVELOPMENT & LEARNING 1

The nature and role of theory in providing perspectives on issues in human development; the range of opinions and beliefs which have shaped theories of development and learning and influenced educational practice; how psychology and other disciplines influence the consideration of developmental issues;

perspectives on development and learning in the areas of physical, cognitive, linguistic and socio-emotional processes.

**Credit Points:** 12

**Contact Hours:** 3 per week

## ■ LEB241 DEVELOPMENT & LEARNING 2

Historical and contemporary psychological theories and approaches: scientific behaviourist models, behaviour modification applications, personal and social development, cognitive models, information processing models, creativity and giftedness. The teacher's role in facilitating learning. Issues in educating children with special needs: the range of individual differences, concept of integration, problems of labelling, non-discriminatory assessment, instructional techniques.

**Prerequisite:** LEB240

**Credit Points:** 8

**Contact Hours:** 3 per week

## ■ LEB270 HUMAN RELATIONSHIPS EDUCATION

This elective has a dual focus: effective interpersonal communication by teachers as members of the school and community; and the curriculum and pedagogical process for teaching children. These curriculum programs focus on care, personal development, work experience and community-based learning. Students undertaking this elective are introduced to these processes through lectures, seminars and workshops and appropriate field study experiences.

**Credit Points:** 8

**Contact Hours:** 3 per week

## ■ LEB280 DEVELOPMENT & LEARNING ELECTIVE

Introduction to a wide range of development and learning perspectives. A more in-depth understanding of specific psychological issues in education and their application to teaching.

**Prerequisites:** LEB240, LEB241

**Credit Points:** 8

**Contact Hours:** 3 per week

## ■ LEB301 ADOLESCENT DEVELOPMENT & HUMAN RELATIONSHIPS

Adolescent development and 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:** 12

**Contact Hours:** 3 per week

## ■ LEB302 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:** 12

**Contact Hours:** 3 per week

## ■ LEB320 HELPING STUDENTS WITH LEARNING PROBLEMS

Analysis of the correlates of low achievement in secondary schools with a focus on slow learners and students with specific learning disabilities; development and critical evaluation of a range of teaching/learning strategies designed to assist such students.

**Prerequisite:** LEB302

**Credit Points:** 12

**Contact Hours:** 3 per week

#### ■ LEB321 TEACHER AS COUNSELLOR

This subject is not designed to prepare counsellors. It develops advanced interpersonal skills that assist in the personal and professional development of students and increase their ability to facilitate the development of positive interpersonal learning environments in schools.

**Prerequisite:** LEB302

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ LEB350 HUMAN RELATIONSHIPS EDUCATION CURRICULUM & TEACHING STUDIES 1

Builds on CUB301 to give a greater understanding of the nature of human relationships education as an applied curriculum area. Provides insights into relevant Queensland syllabus and curriculum documents, develops competencies in planning and teaching and makes close links with teaching practice.

**Prerequisites:** CUB301 and at least 48 credit points in each relevant discipline area.

**Credit Points:** 8      **Contact Hours:** 3 per week

#### ■ LEB351 HUMAN RELATIONSHIPS EDUCATION CURRICULUM & TEACHING STUDIES 2

Studied in association with CUB302. Provides opportunities for consideration and practical application of broad curricular and teaching principles and systems policies within the more specific context of this curriculum area. As with CUB302, establishes principles which are used to guide school experience during teaching practice and also as a beginning teacher.

**Prerequisite:** LEB350

**Co-requisites:** CUB302, EDB302

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ LEB352 HUMAN RELATIONSHIPS EDUCATION CURRICULUM & TEACHING STUDIES 3

Last in the Curriculum and Teaching Studies series with a major focus on contemporary issues and emerging trends pertaining to curriculum development. Includes study of advanced planning and teaching strategies and provides opportunities for application of planning and teaching skills during practice teaching.

**Prerequisites:** PUB310, PUB320, CUB302

**Credit Points:** 8      **Contact Hours:** 3 per week

#### ■ LEB420 INTERPERSONAL PSYCHOLOGY IN EDUCATION

Historical development and major principles of interpersonal psychology; concepts related to the formation and development of interpersonal relationships; particular concepts and their application to education; interpersonal relationships with exceptional students; emotionality; models of effective teaching; self-concept; small group development; applications of interpersonal psychology. Study school for external students strongly recommended.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ LEB421 APPLIED STRATEGIES IN CLASSROOM LEARNING

Contemporary theoretical approaches to human development and learning; dimensions of learning; correlates of learning; developing teaching/learning strategies; gathering and interpreting information; consideration of a range of advanced teaching/learning strategies.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ LEB422 ADULT LEARNING

Contemporary theoretical perspectives and research in adult learning. Factors which influence learning. Application of theoretical perspectives to facilitate learning in adult educational environments.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ LEB430 CREATIVITY IN PROBLEM SOLVING

Creativity is an often advocated, loosely discussed, presumed phenomenon much sought after as an educational objective both in general and as curriculum specific. It is the aim of this subject to familiarise students with the history of this concept's emergence, its definitional problems, current explanatory theories and models, and to ensure that their presentation promotes the development of the concept as an aspect of problem solving in personal development and pedagogical applications.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ LEB431 INNOVATIVE TEACHING METHODS

Cooperative learning and developmental goals; effect of cooperative learning on achievement, attitudes and interpersonal relations. A series of classroom strategies applicable to all grade levels (preschool through TAFE/university) and to all subject areas. Access to classroom or other structured learning group essential.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ LEB441 EDUCATIONAL COUNSELLING

The nature of counselling/helping in educational contexts; the educator as counsellor; characteristics of effective helpers, practical development of communications skills, building an empathic relationship; structuring the counselling process; application of some counselling theories to the educational contexts; practical sessions using educationally-based role plays to demonstrate effective use of the skills learned. Compulsory study school for external students. Incompatible with Studies in Counselling or equivalent at Diploma of Teaching level.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ LEB442 ADVANCED EDUCATIONAL COUNSELLING

The major theoretical approaches to counselling are applied to problems and concerns arising in the educational context. Theories include: psychoanalytic, adlerian, existential person-centered, Gestalt, transactional analysis, behaviour, rational-emotive, and reality. Skills and techniques associated with each major theory are presented and related to educationally-based problems and concerns. The effects and outcomes of counselling interventions are investigated and ethical issues are addressed.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ LEB443 HUMAN SEXUALITY & LEARNING

Physical and psychological development; attitudes and beliefs about sex; sexuality and sex education in childhood and adolescence; sex roles; contraception; sexually transmitted diseases; sexuality, disability and illness; sexual abuse of children; sexual dysfunction; pregnancy; abortion; sex education in schools. Compulsory study school for external students.

**Credit Points:** 12      **Contact Hours:** 3 per week

# ■ LEB444 HUMAN SEXUALITY & DEVELOPMENT

An examination of social and legal issues associated with human sexual behaviour and their impact on adult development and identity. Behaviours investigated are pregnancy, abortion, infertility, child sexual abuse, rape, pornography, prostitution and transsexuality.

**Credit Points: 12      Contact Hours: 3 per week**

# ■ LEB445 STUDIES IN ALCOHOL & OTHER DRUGS

Drug use, misuse and abuse covers a very wide range of substances and situations. This subject, rather than focus on lurid details of the street drug scene aims at developing an awareness that supportive elements contributing to an overall drug education strategy need to be found in every part of the curriculum. While a range of strategies is encountered, some may not even mention drugs while others may help young people handle specific situations. This subject does not attempt to provide a definitive curriculum to conquer the drug problems of all young people. It attempts to help teachers to develop an approach which is likely to be effective.

**Credit Points: 12      Contact Hours: 3 per week**

# ■ LEB446 PSYCHOEDUCATIONAL ASSESSMENT

Assessment techniques and strategies in the educational context; assessment of intelligence, academic skills, aptitude, personality; reliability, validity, test construction and standardisation procedures; the process of administering assessment instruments in schools; interpretation of test results and assessment data; using assessment data in programming and placement in educational institutions.

**Credit Points: 12      Contact Hours: 3 per week**

# ■ LEB447 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**

# ■ LEB490 HUMAN DEVELOPMENT & LEARNING

Human development; cognitive; effective 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**

# ■ LEP410 HUMAN DEVELOPMENT & LEARNING A

Using their own life experiences as developing human beings and learners as a basis for discussion, students study adolescent development in this subject within the broader contexts of life-span development, social change with reference to youth sub-cultures and popular cultures, and observations of contemporary educational practice during teaching practice. The subject introduces students to the complex process of teaching and learning.

**Co-requisite: CPP410**

**Credit Points: 9      Contact Hours: 3 per week**

# ■ LEP411 HUMAN DEVELOPMENT & LEARNING B

This subject builds on LEP410 A and focuses on the students as emerging professional practitioners. Inter-

personal relationships and group processes in relation to school students, school and community personnel are emphasised.

**Prerequisite: LEP410**

**Co-requisite: CUP411**

**Credit Points: 9**

**Contact Hours: 3 per week**

# ■ LEP420 HUMAN RELATIONS EDUCATION CURRICULUM & TEACHING STUDIES C

This Curriculum C subject provides opportunities for students with an appropriate background to prepare to teach human relations education. It develops skills and understandings in planning, assessment and teaching and learning strategies, and builds on the general principles of the Curriculum A and B groups of subjects.

**Credit Points: 12      Contact Hours: 3 per week**

# ■ LEP421 ADULT LEARNERS CURRICULUM & TEACHING STUDIES C

This Curriculum C subject provides opportunities for students with an appropriate background to prepare to teach adult learners. It develops skills and understandings in planning, assessment and teaching and learning strategies, and builds on the general principles of the Curriculum A and B groups of subjects.

**Credit Points: 12      Contact Hours: 3 per week**

# ■ LEP422 EXCEPTIONALITY CURRICULUM & TEACHING STUDIES C

This Curriculum C subject provides opportunities for students with an appropriate background to prepare to teach exceptional learners. It develops skills and understandings in planning, assessment and teaching and learning strategies, and builds on the general principles of the Curriculum A and B groups of subjects.

**Credit Points: 12      Contact Hours: 3 per week**

# ■ LEP430 HUMAN DEVELOPMENT & LEARNING

Understand child development and learning theory; evaluate the practical implications of this theoretical perspective within existing and changing practices in primary educational settings; the nature and acquisition of knowledge; the nature of teaching and learning; the historical antecedents of concepts and theories relating to child growth, development and learning.

**Credit Points: 8      Contact Hours: 3 per week**

# ■ LEP501 LEARNERS WITH SPECIAL NEEDS

Special educational needs of school (P-12) and TAFE College learners arising from cognitive, behavioural and sociocultural 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**

# ■ LEP502 DEVELOPING RELATIONSHIPS & GROUPS

Overview of concepts relating to a model of interpersonal relationships; study of some human relationships concepts such as verbal and nonverbal 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-

relation theory and skills, resource teacher as change agent.

**Credit Points:** 10      **Contact Hours:** 4 per week

#### ■ LEP503 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

#### ■ LEP504 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

#### ■ LEP505 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

#### ■ LEP506 RESOURCE TEACHING FIELDWORK 2

Students participate in colloquia on resource/support teaching and undertake school or college-based projects related to other subjects studied in the second half of the course; observe and report on curriculum and sociocultural 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.

**Credit Points:** 8      **Contact Hours:** 2 per week

#### ■ LEP507 RESEARCH METHODS IN RESOURCE TEACHING

Introduction to 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 Master's research proposal.

**Credit Points:** 10      **Contact Hours:** 3 per week

#### ■ LEP508 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

#### ■ LEP509 RESOURCE TEACHING 1A

See LEP504

**Credit Points:** 4

#### ■ LEP510 RESOURCE TEACHING 1B

See LEP504

**Credit Points:** 4

#### ■ LEP511 RESOURCE TEACHING 2A

See LEP506

**Credit Points:** 4

#### ■ LEP512 RESOURCE TEACHING 2B

See LEP506

**Credit Points:** 4

#### ■ LEP515 HUMAN SEXUALITY & LEARNING

Physical and psychological development; attitudes and beliefs about sex; sexuality and sex education in childhood and adolescence; sex roles; contraception; sexually transmitted diseases; sexuality, disability and illness; sexual abuse of children; sexual dysfunction; pregnancy; abortion; sex education in schools.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ LEP516 HUMAN SEXUALITY & DEVELOPMENT

An examination of social and legal issues associated with human sexual behaviour and their impact on adult development and identity. Behaviours investigated are pregnancy, abortion, infertility, child sexual abuse, rape, pornography, prostitution and transexuality.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ LEP517 ETHICS & HUMAN RELATIONSHIPS EDUCATION

Philosophical approaches to human relationships; moral philosophy and education; development of an integrated and clearly articulated argument for a philosophy of human relationships education.

**Prerequisite:** LEP515

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ LEP518 HUMAN RELATIONSHIPS ACROSS THE LIFESPAN

The developmental processes; issues in human development across the lifespan; development theory and research; development of human relations; the sociocultural context of development and relationships.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ LEP519 INTERPERSONAL & PROFESSIONAL RELATIONSHIPS 1

An examination of the major concepts and models used to explain interpersonal relationship development, social influence and attitude change; the development of communication and counselling skills and theoretical understandings.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ LEP520 INTERPERSONAL & PROFESSIONAL RELATIONSHIPS 2

An examination of the major concepts and models used to explain interpersonal relationship development, social influence and attitude change; the development of communication and counselling skills and theoretical understandings.

**Prerequisite:** LEP519

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ LEP521 SOCIOCULTURAL CONTEXT OF HUMAN RELATIONSHIPS EDUCATION

Poverty; marriage and partnerships, divorce and separation; family violence; disability.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ LEP522 INTERPERSONAL & SMALL GROUP TEACHING STRATEGIES

This subject is designed to provide human relationships educators with insight into the effects and usefulness of interactive and cooperative teaching strategies, and experience with their implementation.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ LPN300 RESEARCH DISSERTATION

A research dissertation of approximately 20,000 words. It is expected that the research dissertation relates to one of the core subject areas covered in the Graduate Diploma in Legal Practice and will have an applied law orientation. Examples of topics are: law and practice difficulties in staged resort development; analysis of judgement by default procedures and practices in the courts; jurisdictional issues and procedural difficulties in obtaining injunctive relief in the courts.

**Credit Points:** 48

### ■ LSB001 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

### ■ LSB100 MICROBIOLOGY I

The subject acts as an introduction to the study of microbiology and biochemistry. 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:** 8      **Contact Hours:** 3 per week

### ■ LSB113 ENVIRONMENTAL SCIENCE

Atmospheric process including climate; air pollution and smog; water cycles. Sea level changes and water pollution as a global issue; carbon, nitrogen and phosphorous cycling. Introduction to human population and demographic trends. Distribution and trade in renewable and non-renewable resources; trends in the use of land; the city as an ecosystem; natural resource management and conservation.

**Credit Points:** 4      **Contact Hours:** 2 per week

### ■ LSB122 BIOLOGY I

A core subject for major and submajor studies in biology. It consists of an integrated program of lectures and practical work dealing with structure and function of living organisms and systems.

**Co-requisite:** LSB100 or Senior Biology

**Credit Points:** 12      **Contact Hours:** 5 per week

### ■ LSB130 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

### ■ LSB141 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

### ■ LSB151 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

### ■ LSB161 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

### ■ LSB171 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. The skeletal, muscular, nervous and integumentary systems are studied.

**Credit Points:** 12      **Contact Hours:** 4 per week

### ■ LSB181 ANATOMY

The general principles of anatomy; macroscopic and some microscopic and ultrastructures of the human body; introductory surface and regional anatomy in relation to systemic anatomy. This subject also focuses on the areas of anatomy relevant to nursing.

**Credit Points:** 8      **Contact Hours:** 3 per week

### ■ LSB191 CLINICAL PHYSIOLOGY & PHARMACOLOGY

The physiological basis of the pathogenesis, clinical features and principles of treatment of the major disorders of body function. (Note: This subject is not compatible with PNB116, or PNB758, or PNB340 + PNB540 + PNB640, or PNB350 + PNB450 + PNB650.)

**Prerequisite:** PNB240

**Credit Points:** 8      **Contact Hours:** 3 per week

### ■ LSB210 QUANTITATIVE LABORATORY TECHNIQUES 2

A subject dealing with the theoretical and practical aspects of instrumental analysis in the clinical laboratory, and organisation and analysis of data. Topics include: glassware, plastics, balances, spectrophotometers, flamephoto-meters, auto-titrators, 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.

**Credit Points:** 12      **Contact Hours:** 5 per week

### ■ LSB221 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

## ■ LSB222 BIOLOGY 2

Macrobiology; populations of organisms, their interactions with each other, and their association into communities, ecosystems, biomes and the global biosphere are studied in both qualitative and quantitative terms. The flow of energy and matter through the biosphere; the impact of humanity on this process; introduction to simple computer-based models of community ecology and ecosystem processes through practical sessions.

**Credit Points:** 12      **Contact Hours:** 5 per week

## ■ LSB230 ANATOMY 2

An extension of LSB130. A course dealing with the microscopic and macroscopic anatomy of the nervous, digestive, lymphatic, integumentary, respiratory, renal, endocrine and reproductive systems.

**Prerequisite:** LSB130

**Credit Points:** 8      **Contact Hours:** 3 per week

## ■ LSB232 CELL BIOLOGY

Introduction to cell structure and function in both eukaryote and prokaryote organisms; cell biology in relation to structure, function, systems, metabolism and differentiation in addition to basic molecular biology and genetic organisation; the molecular basis for genetic manipulation and other current advances based on molecular genetics.

**Prerequisite:** LSB122

**Credit Points:** 12      **Contact Hours:** 5 per week

## ■ LSB240 PHYSIOLOGY 2

Basic mechanisms: cells, fluids, electrolytes; energy metabolism; essential nutrients; transport mechanisms; blood; communication and control; excitable tissues. Control systems: nervous and endocrine systems.

**Prerequisite:** LSB130 for Med Lab Science students  
**Co-requisite:** CHB282 or CHB242 for Med Lab Science students

**Credit Points:** 8      **Contact Hours:** 4 per week

## ■ LSB241 ANATOMY & PHYSIOLOGY 2

A course of lectures and practical exercises involving a basic, yet comprehensive, study of the anatomy and physiology of the various body systems.

**Prerequisite:** LSB141

**Credit Points:** 10      **Contact Hours:** 4 per week

## ■ LSB242 HUMAN ANATOMY & PHYSIOLOGY

An introduction to the anatomy and physiology of the human body for health professionals. Emphasis is placed on gaining an appreciation of the relationship between structure and function at the levels of cells, tissues, organs and organ systems. Related medical terminology is introduced. A brief study of pregnancy and human development is included.

**Credit Points:** 12      **Contact Hours:** 5 per week

## ■ LSB261 SYSTEMATIC ANATOMY

An extension of PUB161. A subject dealing with the microscopic and macroscopic anatomy of the nervous, digestive, lymphatic, integumentary, respiratory, renal, endocrine and reproductive systems.

**Prerequisite:** LSB161

**Credit Points:** 8      **Contact Hours:** 3 per week

## ■ LSB271 ANATOMY & PHYSIOLOGY 2

This subject follows on LSB171, 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 is reviewed. A brief study on pregnancy and human development is included.

**Prerequisites:** LSB171

**Credit Points:** 12      **Contact Hours:** 4 per week

## ■ LSB281 PHYSIOLOGY & PHARMACOLOGY

This subject considers the basic principles of normal body function and provides an introduction to pharmacology. (Note: This subject is not compatible with PNB115, or PNB240 or PND241.)

**Credit Points:** 8      **Contact Hours:** 3 per week

## ■ LSB300 MICROBIOLOGY 3

An introductory core subject in microbiology dealing with cytology, nutrition, genetics control of microbial populations and principles of taxonomy.

**Prerequisite:** LSB100      **Co-requisite:** LSB320

**Credit Points:** 8      **Contact Hours:** 4 per week

## ■ LSB301 MICROBIOLOGY 1

The classification and identification of micro-organisms: emphasis is on their microbiology and reproduction. Organisms dealt with include: the protozoa, helminths, fungi, bacteria and algae.

**Credit Points:** 8      **Contact Hours:** 3 per week

## ■ LSB302 ANIMAL BIOLOGY 1

This subject, together with LSB402, provides the foundation in animal biology that is essential for later specialist subjects in population studies and aquaculture. The subject deals with non-chordates and covers the following topics: taxonomy, systematics, nomenclature, classification, ultrastructure, life histories, structure and physiology, and evolutionary trends.

**Credit Points:** 12      **Contact Hours:** 5 per week

## ■ LSB305 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.

**Credit Points:** 12      **Contact Hours:** 5 per week

## ■ LSB308 BIOCHEMISTRY 3

The structure and function of organic macromolecules. Topics include: the chemistry and function of proteins; enzymology; thermodynamics; energy production and utilisation; the structure, chemistry and function of carbohydrates and nucleic acids.

**Prerequisites:** LSB232, CHB222

**Credit Points:** 12      **Contact Hours:** 5 per week

## ■ LSB310 QUANTITATIVE LABORATORY TECHNOLOGY 3

The subject 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 including statistical control in the clinical laboratory.

**Prerequisite:** LSB210

**Credit Points:** 8      **Contact Hours:** 4 per week

## ■ LSB312 MARINE STUDIES

A general overview of the marine ecosystems, their importance to all life along the coastal areas and to people's livelihood; management and conservation of



the sea; appreciation of its infinite value to mankind's changing lifestyle.

**Prerequisite:** LSB122

**Credit Points:** 12      **Contact Hours:** 5 per week

### ■ LSB318 BIOCHEMICAL METHODOLOGY 3

A companion to LSB308 emphasising biochemical laboratory methods and practice and dealing with pH measurement and buffers, UV and visible spectrophotometry, chromatography, electrophoresis and isotope techniques.

**Prerequisites:** LSB232, MAB327

**Co-requisite:** LSB308

**Credit Points:** 12      **Contact Hours:** 5 per week

### ■ LSB321 SYSTEMATIC PATHOLOGY

Detailed study of the diseases of the organ systems: cardiovascular, respiratory, alimentary, urogenital, nervous musculoskeletal, endocrine, haematologic and skin.

**Prerequisite:** LSB221

**Credit Points:** 8      **Contact Hours:** 3 per week

### ■ LSB322 PLANT BIOLOGY

Plant biology provides a foundation in morphology, anatomy reproduction, taxonomy and identification in the plant kingdom. The subject includes a small practical project, and some emphasis is given to species of economic value. The content forms a basis for further study in plant tissue culture, physiology and ecology.

**Prerequisite:** LSB232

**Credit Points:** 12      **Contact Hours:** 5 per week

### ■ LSB328 MICROBIOLOGY 3

An introductory core subject of lectures and practical exercises in microbiology dealing with cytology, nutrition, genetics control of microbial populations and principles of taxonomy.

**Prerequisite:** LSB232      **Co-requisite:** LSB308

**Credit Points:** 12      **Contact Hours:** 5 per week

### ■ LSB330 INTRODUCTION TO BIOTECHNOLOGY

The basic aspects of molecular biology, genetic engineering and clinical applications of biotechnology. The subject includes: types and structures of DNA and RNA; the genetic code; DNA replication, transcription and translation; gene cloning techniques; vectors and hosts; DNA hybridisation and DNA probe techniques; clinical applications of technology.

**Credit Points:** 8      **Contact Hours:** 4 per week

### ■ LSB331 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 are 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.

**Prerequisite:** LSB261      **Co-requisite:** PNB302

**Credit Points:** 8      **Contact Hours:** 3 per week

### ■ LSB332 PLANT PHYSIOLOGY 1

An introduction to whole plant physiology and the functional systems of plants. It is an important preparatory subject for students continuing their studies in the plant biotechnology and ecology areas.

**Prerequisite:** LSB232

**Credit Points:** 12      **Contact Hours:** 5 per week

### ■ LSB340 PHYSIOLOGY 3

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, blood pressure and flow, respiration; response to tissue damage and foreign matter; adaptation to stress and exercise.

**Prerequisite:** LSB230 and LSB240 for students in Med Lab Science

**Credit Points:** 8      **Contact Hours:** 4 per week

### ■ LSB340 SCIENCE & SURVIVAL

Foundations of organic and biological chemistry including hydrocarbons, synthetic polymers, carbohydrates, proteins, nuclear acid and lipids. Industrial chemistry: metals and mining; industrial processing of raw materials for industry; consumer chemistry. Energy and its production, radiation, aspects of atmospheric physics, fission, fusion and nuclear radiation. Computers and solid state devices.

**Prerequisite:** MDB261

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ LSB341 BIOLOGY & TECHNOLOGY

The interaction of organisms and their physical environment; the human influence in the biosphere; how technology empowers communities to exploit and/or protect biological systems and the integrity of the earth as humanity experiences it today.

**Prerequisite:** LSB340

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ LSB341 REGIONAL & SECTIONAL ANATOMY

An expansion of the topics introduced in LSB141 and LSB241 to a detailed study of regional and sectional anatomy of the human body.

**Prerequisite:** LSB241

**Credit Points:** 8      **Contact Hours:** 4 per week

### ■ LSB351 HUMAN ANATOMY 3

An extension of LSB151. This integrated series of lectures and practicals covers basic embryology, structure and development of the eye, and gross and microscopic anatomy of the major organ systems of the human body.

**Prerequisites:** LSB151

**Credit Points:** 10      **Contact Hours:** 5 per week

### ■ LSB352 POPULATION ECOLOGY

A broad theoretical background in the major concepts of plant and animal ecology; introduction to a number of basic ecological models and modelling techniques; topics include: the ecology of single populations, life history and demography, interactions within and between populations, population regulation, management, behavioural ecology, energetics and biogeography.

**Prerequisite:** LSB222      **Co-requisite:** LSB362

**Credit Points:** 12      **Contact Hours:** 5 per week

### ■ LSB358 PHYSIOLOGY 2S

A course of lectures and practicals reviewing basic mechanisms: cells, fluids, electrolytes; energy metabolism; essential nutrients; transport mechanisms; blood; communication and control; excitable tissues; control systems: nervous and endocrine.

**Prerequisite:** LSB242

**Credit Points:** 12      **Contact Hours:** 5 per week

### ■ LSB361 FUNDAMENTALS OF MEDICINE 1

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; assist in research and quality assurance programs in the health services. A review of the important and frequently encountered diseases and disorders of the major body systems.

**Prerequisite:** LSB271

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ **LSB362 QUANTITATIVE METHODS IN LIFE SCIENCE**

The emphasis in this subject is on practical considerations of field and laboratory-based experimentation in life science, and it provides experience in problem assessment, definition and formulation of testable hypotheses.

**Prerequisite:** MAB237 or MAB447

**Credit Points:** 12 **Contact Hours:** 5 per week

#### ■ **LSB400 MICROBIOLOGY 4**

An extension of the core subject in Microbiology (LSB300), including aspects of microbial taxonomy, food and water microbiology, microbial ecology, industrial and agricultural microbiology, and the role of microorganisms as infectious agents.

**Prerequisite:** LSB300 or LSB491

**Co-requisite:** LSB481

**Credit Points:** 8 **Contact Hours:** 4 per week

#### ■ **LSB401 MICROBIOLOGY**

An introductory core subject of lectures and practical exercises in Microbiology dealing with cytology, nutrition, genetics, control of microbial populations, and principles of taxonomy.

**Credit Points:** 8 **Contact Hours:** 3 per week

#### ■ **LSB402 ANIMAL BIOLOGY 2**

This subject, together with LSB302, provides the foundation in animal biology that is essential for later specialist subjects in population studies and aquaculture. The subject deals with chordates and covers the following topics: embryology, development, structure, physiology, classification and major evolutionary trends.

**Prerequisite:** LSB302

**Credit Points:** 12 **Contact Hours:** 5 per week

#### ■ **LSB405 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.

**Credit Points:** 12 **Contact Hours:** 5 per week

#### ■ **LSB408 BIOCHEMISTRY 4**

Aspects of carbohydrate metabolism in mammals, the chemistry and metabolism of lipids, amino acids, the chemistry and function of the nucleic acids, protein biosynthesis and molecular bases of genetic mutation.

**Prerequisite:** LSB308

**Credit Points:** 12 **Contact Hours:** 5 per week

#### ■ **LSB412 APPLIED ECOLOGY A**

The theory and practice of methods used to determine and measure important population parameters and characteristics. The methods are an essential tool for the study of biological populations. Content includes estimation of population size, determination of dispersion patterns, detecting competition and

measuring productivity. Applications of methods are demonstrated using laboratory and field exercises.

**Prerequisite:** LSB352

**Credit Points:** 12 **Contact Hours:** 5 per week

#### ■ **LSB418 BIOCHEMICAL METHODOLOGY 4**

This subject extends studies of chromatographic and electrophoretic methods, protein binding techniques and the methodology of protein and nucleic analysis.

**Prerequisite:** LSB318

**Co-requisite:** LSB408

**Credit Points:** 12 **Contact Hours:** 5 per week

#### ■ **LSB421 IMAGING PATHOLOGY**

A study of the appearances of pathology on medical images with particular emphasis on the radiographic image.

**Prerequisite:** LSB321

**Credit Points:** 4 **Contact Hours:** 2 per week

#### ■ **LSB422 APPLIED ECOLOGY B**

The principle and concepts of plant community ecology and ecosystem structure. It includes a consideration of biogeochemical cycles, soils, nutrient cycling, vegetation classification and mapping, and techniques for characterising the physical environment. Field work is incorporated.

**Credit Points:** 12 **Contact Hours:** 5 per week

#### ■ **LSB428 MICROBIOLOGY 4**

An extension of LSB328, includes aspects of microbial taxonomy, food and water microbiology, microbial ecology, industrial and agricultural microbiology and the role of micro-organisms as infectious agents.

**Prerequisite:** LSB328

**Co-requisite:** LSB408

**Credit Points:** 12 **Contact Hours:** 5 per week

#### ■ **LSB430 IMMUNOLOGY 4**

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:** LSB306 and LSB300

**Credit Points:** 8 **Contact Hours:** 4 per week

#### ■ **LSB431 MICROBIOLOGY 2**

This subject extends the principles covered in LSB301 and considers the classification and identification of micro-organisms, their infectious capability, host responses and the role of micro-organisms in nature and in industrial processes, the enumeration of micro-organisms, the control of microbial populations. The classification of viruses and their reproductive cycle are briefly considered.

**Prerequisite:** LSB301

**Credit Points:** 8 **Contact Hours:** 3 per week

#### ■ **LSB432 GENETICS**

An introductory subject in basic genetics. Topics include: the molecular basis of genetics, Mendelian genetics, nuclear and cytoplasmic inheritance, genotype-phenotype interactions, quantitative and behavioural genetics, and basic evolutionary theory.

**Prerequisite:** LSB122

**Credit Points:** 12 **Contact Hours:** 5 per week

#### ■ **LSB438 IMMUNOLOGY 4**

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:** LSB328, LSB242

**Credit Points:** 12      **Contact Hours:** 5 per week

#### ■ LSB441 IMAGING ANATOMY

A study of the appearances, on medical images, of normal and abnormal anatomy.

**Credit Points:** 8      **Contact Hours:** 4 per week

#### ■ LSB442 PLANT TISSUE CULTURE 1

A broad introduction to most of the areas of plant tissue culture. After an introduction to techniques and media preparation leading to a coverage of micropropagation, the topics discussed include: organogenesis, embryogenesis, genetic variability, another culture and secondary metabolite production. Some emphasis is placed on the tissue culture of horticultural crops and a field excursion is included as part of the program.

**Prerequisite:** LSB332

**Credit Points:** 12      **Contact Hours:** 5 per week

#### ■ LSB450 HAEMATOLOGY 4

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, techniques and interpretation used in the screening of blood samples are discussed in detail. Basic haematologic tests 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:** LSB310, LSB205, LSB306

**Co-requisite:** LSB408

**Credit Points:** 8      **Contact Hours:** 4 per week

#### ■ LSB451 HUMAN PHYSIOLOGY

A course of lectures and practicals. The lectures are the same as LSB240 and LSB340. The subject is presented as a one semester program.

**Prerequisite:** LSB351 or LSB261

**Credit Points:** 12      **Contact Hours:** 7 per week

#### ■ LSB458 PHYSIOLOGY 3S

A continuation of LSB358.

**Prerequisite:** LSB358

**Credit Points:** 12      **Contact Hours:** 5 per week

#### ■ LSB460 HISTOPATHOLOGY 4

An introductory subject 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

#### ■ LSB461 FUNDAMENTALS OF MEDICINE 2

This subject continues the study of the process of medical care begun in LSB361. 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:** LSB361

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ LSB470 DISEASE PROCESSES 4

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. It 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:** LSB105

**Co-requisite:** LSB306

**Credit Points:** 4

**Contact Hours:** 2 per week

#### ■ LSB485 AUSTRALIAN BIOLOGY

The geological and climatic history of the Australian continent, the history of Australian ecosystems and the evolution of the Australian flora and fauna. Major groups of extant plants and animals are examined in some detail. While emphasis is placed on vertebrate animals, invertebrates of particular relevance because of their abundance, scientific interest or economic importance are discussed. The structure of selected plant communities and their social and economic relevance are examined.

**Credit Points:** 12

**Contact Hours:** 3 per week

#### ■ LSB491 MICROBIOLOGY 3

An introductory core subject microbiology for students of optometry dealing with cytology, nutrition, genetics, control of microbial populations and principles of taxonomy.

**Credit Points:** 6

**Contact Hours:** 3 per week

#### ■ LSB500 MICROBIOLOGY 5

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:** LSB400

**Credit Points:** 16

**Contact Hours:** 7 per week

#### ■ LSB508 BIOCHEMISTRY 5

The catabolic and anabolic pathways for the major macromolecules in mammalian systems; important aspects of non-mammalian metabolism; advanced concepts in bioenergetics and thermodynamics in the context of cellular metabolism; integration of metabolism including production of mixed conjugates of biological significance such as amino-sugars and lipopolysaccharides.

**Prerequisite:** LSB408

**Credit Points:** 12

**Contact Hours:** 5 per week

#### ■ LSB520 CLINICAL BIOCHEMISTRY 5

This subject 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, the metabolism of lipids, carbohydrates and proteins.

**Prerequisites:** LSB408, LSB310, LSB306

**Co-requisite:** MAB252

**Credit Points:** 8

**Contact Hours:** 4 per week

#### ■ LSB528 MICROBIAL PHYSIOLOGY & METABOLISM

The composition organisation, structure and activity of the microbial cell: bacteria, yeasts and moulds. 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:** LSB428

**Credit Points:** 12      **Contact Hours:** 5 per week

#### ■ LSB530 IMMUNOLOGY 5

This subject builds on the basic understanding provided in LSB430 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:** LSB430, LSB408, LSB400

**Credit Points:** 8      **Contact Hours:** 4 per week

#### ■ LSB538 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:** LSB408, LSB428

**Credit Points:** 12      **Contact Hours:** 5 per week

#### ■ LSB548 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 are required to design and execute an experimental protocol for the separation of selected macromolecules.

**Prerequisite:** LSB318      **Co-requisite:** LSB508

**Credit Points:** 12      **Contact Hours:** 5 per week

#### ■ LSB550 HAEMATOLOGY 5

The first of two subjects 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 subject include: bleeding disorders, iron deficiency anaemia, anaemia of chronic disease, macrocytic anaemia and pancytopenia.

**Prerequisites:** LSB450, LSB310, LSB408, LSB306

**Credit Points:** 8      **Contact Hours:** 4 per week

#### ■ LSB558 APPLIED PHYSIOLOGY

The links between normal and abnormal food intake and normal and abnormal physiological functions in the human body; the role of nutrition in the physiology of the cardiovascular, renal, gastrointestinal and nervous systems.

**Prerequisites:** LSB358, LSB458

**Credit Points:** 12      **Contact Hours:** 5 per week

#### ■ LSB560 HISTOPATHOLOGY 5

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:** LSB460, LSB408, LSB306, LSB510, LSB205

**Credit Points:** 8      **Contact Hours:** 4 per week

#### ■ LSB568 ELECTRON MICROSCOPY

A theoretical and practical background to the operation and use of scanning and transmission electron microscopes in biological, materials and forensic science; basic principles of specimen preparation are covered and the analytical capabilities of electron beam instruments.

**Credit Points:** 12      **Contact Hours:** 5 per week

#### ■ LSB571 BIOCHEMISTRY 4

Introduction to 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

#### ■ LSB600 CLINICAL BACTERIOLOGY 6

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:** LSB400

**Credit Points:** 16      **Contact Hours:** 7 per week

#### ■ LSB608 BIOCHEMISTRY 6

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.

**Prerequisites:** LSB418, LSB408

**Credit Points:** 12      **Contact Hours:** 5 per week

#### ■ LSB618 ANALYTICAL BIOCHEMISTRY 6

A companion subject to LSB608 which extends the material of LSB418 into biochemical analysis. This subject treats enzyme-based analyses, advanced analysis using isotopes, immunoassays and specific methods for the major biomolecules.

**Prerequisite:** LSB418      **Co-requisite:** LSB608

**Credit Points:** 12      **Contact Hours:** 5 per week

#### ■ LSB620 CLINICAL BIOCHEMISTRY 6

This subject 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:** LSB520

**Credit Points:** 8      **Contact Hours:** 4 per week

#### ■ LSB622 CASE STUDIES

Application of skills and techniques to examine a current research problem in ecology. Skills in problem appraisal, experimental design and data handling and processing are developed, with appropriate field work.

**Prerequisite:** LSB412

**Credit Points:** 12      **Contact Hours:** 5 per week

#### ■ LSB628 APPLIED MICROBIOLOGY

Aspects of the microbiology of foods, water and agriculture; topics include: sampling plans, foodborne infections, food hygiene, food standards and the law, food ecology and its relationship to food spoilage and preservation, industrial fermentations, NATA requirements for laboratory registration and methods of microbiological examination of foods, plant and soil

microbiology, preservation of cultures and cell lines, bacterial systematics and nomenclature.

**Prerequisite:** LSB528

**Credit Points:** 12 **Contact Hours:** 5 per week

### ■ LSB630 IMMUNOHAEMATOLOGY 6

This subject is designed to supply the competence in theoretical and practical blood transfusion required of a scientist working in a hospital blood bank. The understanding of immunology gained in LSB430 and LSB530 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:** LSB530

**Credit Points:** 8 **Contact Hours:** 4 per week

### ■ LSB638 GENETIC ENGINEERING

Introduction to techniques integral to genetic engineering; students are compelled to develop laboratory competence in the use of radioisotopes and gene probes for the labelling, hybridisation and detection of nucleic acids. Topics include: strategies for gene isolation and cloning, gene expression, animal and plant transgenics and applications of genetic engineering in vaccine research, disease diagnosis and gene therapy.

**Prerequisite:** LSB538

**Credit Points:** 12 **Contact Hours:** 5 per week

### ■ LSB642 PLANT TISSUE CULTURE 2

Cellular and biochemical aspects of plant growth are integrated with standard plant tissue culture practice in this subject. Theories and techniques of modern plant biotechnology are introduced, including cytogenetics, protoplast isolation, and the unusual carbohydrate metabolism of plants in tissue culture.

**Prerequisite:** LSB342

**Credit Points:** 12 **Contact Hours:** 5 per week

### ■ LSB648 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; biodeterioration and bioleaching.

**Prerequisite:** LSB528

**Credit Points:** 12 **Contact Hours:** 5 per week

### ■ LSB650 HAEMATOLOGY 6

This subject continues the study of blood diseases. Topics include: haemolytic anaemia, leukaemia and related diseases, paediatric haematology, blood disorders in the elderly and veterinary haematology.

**Prerequisite:** LSB550

**Credit Points:** 8 **Contact Hours:** 4 per week

### ■ LSB658 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 are 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.

**Prerequisites:** LSB358, LSB458

**Credit Points:** 12 **Contact Hours:** 5 per week

### ■ LSB660 HISTOPATHOLOGY 6

The subject 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:** LSB560

**Credit Points:** 8 **Contact Hours:** 4 per week

### ■ LSB700 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

### ■ LSB722 RESEARCH STRATEGIES 1

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

### ■ LSB723 READINGS IN LIFE SCIENCE 1

This subject consists of the preparation of a literature review of direct and associated relevance to LSB725. The literature review, under the guidance of the supervisor(s), includes an indepth 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

### ■ LSB725 PROJECT

All students undertaking honours in biotechnology, biochemistry or microbiology are required to select and undertake, in consultation with a supervisor, a suitable project.

**Credit Points:** 10

### ■ LSB732 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 are required to design and execute an experimental protocol for the separation of selected macromolecules.

**Prerequisite:** LSB318

**Credit Points:** 10 **Co-requisite:** LSB508 **Contact Hours:** 5 per week

### ■ LSB734 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

#### ■ **LSB736 ADVANCED GENETIC ENGINEERING**

The isolation of mRNA and DS viral RNA; DNA analysis using Restriction Fragment Length Polymorphisms (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

#### ■ **LSB738 MOLECULAR BIOLOGY**

Introduction to 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:** LSB408, LSB428

**Credit Points:** 10      **Contact Hours:** 5 per week

#### ■ **LSB750 ADVANCED AQUACULTURE**

The biological physiological and economic basis for the selection and use of species in aquaculture; topics include: nutritional requirements of cultured species; reproductive physiology; genetic manipulation of sex; the efficacy and safety of genetic engineering; the efficacy and safety of the use growth promoters and antimicrobial agents; genetic methods of stock assessment; high technology culture; subsistence culture in developing countries.

**Credit Points:** 10      **Contact Hours:** 5 per week

#### ■ **LSB801 ADVANCED PLANT PHYSIOLOGY & BIOCHEMISTRY**

Aspects of plant physiology and biochemistry of current research interest are covered, expanding upon material in the third year Plant Biochemistry subject. Students select from a reading list, present seminars and undertake advanced practical work.

**Credit Points:** 9      **Contact Hours:** 4 per week

#### ■ **LSB803 DATA HANDLING, INTERPRETATION & BIOMETRICS**

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

#### ■ **LSB804 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

#### ■ **LSB805 MOLECULAR DIAGNOSIS OF DISEASE**

Advanced molecular techniques of disease diagnosis; 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:** 5 per week

#### ■ **LSB822 RESEARCH STRATEGIES 2**

Regular student presentations and group discussion of research progress; lectures and tutorials on highly relevant research topics, eg. computer data analysis, grant applications, photography for scientists, etc.; research seminars given by staff and other scientists in their fields of expertise. Students are required to present to the School a formal seminar on the results of their research project.

**Credit Points:** 8      **Contact Hours:** 3 per week

#### ■ **LSB823 READINGS IN LIFE SCIENCE 2**

The preparation of a paper reporting the methods and results of investigations in LSB725. The paper also includes an introduction, analysis and discussion of the project in a style and length deemed to be appropriate by the Head of School. 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

#### ■ **LSB835 GENETIC ENGINEERING**

Introduction to 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 DNA libraries and gene identification; and applications of genetic engineering.

**Prerequisite:** LSB738 or LSB538

**Credit Points:** 10      **Contact Hours:** 5 per week

#### ■ **LSB845 ANALYTICAL BIOCHEMISTRY**

A companion subject to LSB608 which extends the subject matter of LSB418 into biochemical analysis. This subject treats enzyme-based analyses, advanced analysis using isotopes, immunoassays and specific methods for the major biomolecules.

**Prerequisite:** LSB418      **Co-requisite:** LSB608

**Credit Points:** 10      **Contact Hours:** 5 per week

#### ■ **LSB980 ENVIRONMENTAL MONITORING**

The skills of environmental measurement concerning ecosystems. The lectures are supported by field work in several environments using a range of instrumentation to delineate environmental profiles.

**Credit Points:** 8      **Contact Hours:** 3 per week

#### ■ **LSB981 FIELD STUDIES 2**

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.

**Credit Points:** 8      **Contact Hours:** 3 per week

#### ■ **LSB982 SELECTED TOPICS 1**

Students complete a study on a specific topic. Such study involves selected reference material and may also include a lecture program or project work.

**Credit Points:** 8      **Contact Hours:** 3 per week

#### ■ **LSB983 POPULATION GENETICS**

This subject is an extension of Introductory Genetics and examines in detail the genetics of populations. Topics 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.

**Credit Points:** 8      **Contact Hours:** 3 per week

### ■ LSB984 PROJECTS 1

This subject develops the student's capacity for managing their 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 School 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 subject normally leads into LSB990.

**Credit Points:** 16      **Contact Hours:** 6 per week

### ■ LSB985 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.

**Credit Points:** 8      **Contact Hours:** 3 per week

### ■ LSB986 AQUACULTURE 2

The theoretical and applied aspects of warm-water aquaculture. Topics include: 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.

**Credit Points:** 8      **Contact Hours:** 3 per week

### ■ LSB987 SELECTED TOPICS 2

As a final semester subject, provides students with an opportunity to complete a detailed study on a specific topic. The study normally is based on project work and may include a lecture program.

**Credit Points:** 8      **Contact Hours:** 3 per week

### ■ LSB988 PLANT PHYSIOLOGY 2

Lectures are designed to follow the sequence of biochemical events during the life history of a plant. Topics 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.

**Credit Points:** 8      **Contact Hours:** 3 per week

### ■ LSB989 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 are used to investigate management methods.

**Credit Points:** 8      **Contact Hours:** 3 per week

### ■ LSB990 PROJECTS 2

This elective subject may be undertaken by students who have taken LSB984 and who have the Head of School's permission to continue project work. The student either: continues a project undertaken in LSB984, 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 LSB984. Individual programs for LSB990 are to be determined by the 12th week of the fifth semester of the course. There are a number of excursions.

**Credit Points:** 16      **Contact Hours:** 6 per week

### ■ LSB991 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.

**Credit Points:** 8      **Contact Hours:** 3 per week

### ■ LSB992 VIROLOGY 5

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.

**Credit Points:** 8      **Contact Hours:** 3 per week

### ■ LSN102 CELLULAR BASIS OF DISEASE

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

### ■ LSN110 MOLECULAR BASIS OF DISEASE

This subject provides 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 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

### ■ LSN116 HUMAN FACTORS

Introduction to the human factors in occupational health and safety. Basic human anatomy and physiology are 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 is 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

### ■ LSN150 EPIDEMIOLOGY & RESEARCH STRATEGIES

An introduction to the principles and applications of epidemiology with emphasis given to its scope and value in establishing disease aetiology. Topics 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

### ■ LSN158 ULTRASONIC PATHOLOGY

Pathology as applicable to diagnostic ultrasound; basic embryology and genetics.

**Credit Points:** 6      **Contact Hours:** 2 per week

### ■ LSN161 ANATOMY & PHYSIOLOGY 1

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

### ■ LSN165 ANATOMY & PHYSIOLOGY 2

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

### ■ LSN306 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

### ■ LSN401 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 are presented, eg. computers, laboratory automation, biotechnology, self-diagnosis. The lecture program is flexible to allow for the incorporation of visiting speakers or for the introduction of a current interest topic. In addition to formal lectures the subject offers tutorial and student seminar sessions.

**Prerequisite:** 72 credit points in Master of Health Science

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ LSN510 CLINICAL BIOCHEMISTRY 1

The use of clinical biochemistry in the diagnosis of diseases. Disorders of fluid and electrolyte balance systems, disorders of the gastrointestinal, pancreatic and hepato-biliary systems, and disorders of the cardiovascular system and hypertension are studied, concentrating on diagnosis and the interpretation of biochemical results. In addition, aspects of instrumentation and laboratory methods are reviewed.

**Prerequisite:** 96 credit points in Master of Health Science

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ LSN511 HAEMATOLOGY 1

Haematologic diseases; their aetiology, laboratory investigation, pathogenesis, principles of treatment and

laboratory monitoring. The study program includes seminars, oral presentations and assignments. Topics are chosen from the following areas: haemopoietic kinetics, haematologic oncology, haemolytic disease, haemostasis and the haematologic manipulations of systemic disease. Assessment is by formal examination, assignments and seminar participation.

**Prerequisite:** 96 credit points in Master of Health Science

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ LSN512 HISTOPATHOLOGY 1

An indepth review of recent advances and modern methods in diagnostic histopathology. Major topics 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

### ■ LSN515 MICROBIOLOGY 1

Bacteriology, virology, mycology and parasitology. Topics are chosen to increase the knowledge and understanding of microorganisms associated with human infection. Recent trends and developments in diagnostic microbiology are 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

### ■ LSN517 IMMUNOLOGY 1

Exposure to information retrieval systems and practise in scientific writing. Five essay topics are selected following discussion with students, supervisor/employer.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ LSN518 DIAGNOSTIC CYTOLOGY 1

Review of recent advances and modern methods in diagnostic cytology. The major topics are in gynaecological cytology.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ LSN530 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 submits a written project report in a style to present the data.

**Prerequisite:** 96 credit points in Master of Health Science

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ LSN610 CLINICAL BIOCHEMISTRY 2

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-associated biochemical abnormalities, and the seriously ill patients are studied, concentrating on diagnosis and the interpretation of biochemical results.

**Prerequisite:** LSN510

**Credit Points:** 12      **Contact Hours:** 3 per week



### ■ LSN611 HAEMATOLOGY 2

Topics 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 this subject and LSN511 may be necessary.

**Prerequisite:** LSN511

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ LSN612 HISTOPATHOLOGY 2

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:** LSN512

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ LSN615 MICROBIOLOGY 2

Areas of bacteriology, virology, mycology and parasitology. Topics are chosen to increase the knowledge and understanding of micro-organisms associated with human infection. Recent trends and developments in diagnostic microbiology are studied. A critical approach to the assessment of laboratory practices and interpretation of data is developed.

**Prerequisite:** LSN515

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ LSN617 IMMUNOLOGY 2

Assist with the preparation of scientific publications and the presentation of data orally. Students are expected to prepare a short scientific paper based on raw data provided. They also prepare and present a short seminar based on the scientific paper.

**Prerequisite:** LSN517

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ LSN618 DIAGNOSTIC CYTOLOGY 2

Exploration of recent advances, modern methods and their applications in diagnostic cytology of various body sites. Topics include: respiratory and urinary tract, body fluids and specialised techniques such as fine needle aspiration.

**Prerequisite:** LSN518

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ LSP105 MOLECULAR DIAGNOSIS OF DISEASE

This subject consists of a series of lectures and laboratory exercises in advanced molecular techniques of disease diagnosis; the 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:** 12      **Contact Hours:** 5 per week

### ■ LSP120 ADVANCED GENETIC ENGINEERING

The isolation of mRNA and DS viral RNA; DNA analysis using Restriction Fragment Length Polymorphisms (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:** 12      **Contact Hours:** 5 per week

### ■ LSP127 TOPICS IN BIOTECHNOLOGY

Commercial perspectives of a biotechnology company; funding for commercial research; research strategies in biotechnology; methods of reviewing the biotechnology literature; DNA and protein sequence data banks. Students are also required to present a seminar on some aspect of biotechnology research.

**Credit Points:** 12      **Contact Hours:** 5 per week

### ■ LSP145 PROJECT

All students undertaking the Graduate Diploma in Biotechnology are 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:** 12      **Contact Hours:** 3 per week

### ■ LSP512 INTRODUCTION TO PLANT SCIENCE

Consideration of plants as living organisms; survey of the plant kingdom emphasising revolutionary 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

### ■ LSX110 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

### ■ LSX111 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

### ■ LSX121 BIOLOGICAL CHEMISTRY I

An introduction to the basic chemistry of biological systems and the biochemistry of major groups of biologically important compounds. Topics include: solution chemistry, biochemistry of amino acids, proteins, fats and sugars; basic aspects of enzyme chemistry; nucleic acids and protein synthesis.

**Credit Points:** 8      **Contact Hours:** 4 per week

### ■ LSX122 LABORATORY INSTRUMENTATION I

The principles, care and effective usage of basic laboratory equipment including 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. 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:** LSX111

**Credit Points:** 8 **Contact Hours:** 4 per week

### ■ LSX123 MICROBIOLOGY 1

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

### ■ LSX124 PERSPECTIVES IN MEDICINE

A general introduction to the health care area; topics include: health in the Australian society, workplace safety, the function of various types of laboratories in hospitals, country pathology services, clinical measurement and research. Related topics such as the role of various laboratory personnel and the structure of health care services are discussed.

**Credit Points:** 4 **Contact Hours:** 1 per week

### ■ LSX125 ANATOMY & PHYSIOLOGY 1

An integrated study of anatomy and physiology. Emphasis is 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 are examined and then the structure and function of the skeletal, muscular, nervous and integumentary systems are studied.

**Credit Points:** 8 **Contact Hours:** 3 per week

### ■ LSX210 BIOLOGY B

This subject 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

### ■ LSX211 CELL STRUCTURE & FUNCTION

A general course in cell biology including the living cell and its processes, structure and function. Photosynthesis, respiration, intermediary metabolism are emphasised.

**Credit Points:** 8 **Contact Hours:** 3 per week

### ■ LSX212 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

### ■ LSX213 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

### ■ LSX221 BIOLOGICAL CHEMISTRY 2

Basic metabolism; topics include: biological catalysis; energetic of biological systems; catabolic and anabolic pathways for the metabolism of carbohydrates, lipids, amino acids and nucleic acids; metabolic control and integration.

**Prerequisites:** LSX121, LSX122

**Credit Points:** 8 **Contact Hours:** 4 per week

### ■ LSX222 LABORATORY INSTRUMENTATION 2

Lectures and practical work designed to integrate the principles and techniques of macro-molecule separation by a variety of chromatographic procedures and various methods of electrophoresis, dialysis, filtration and centrifugation.

**Prerequisite:** LSX122

**Credit Points:** 8 **Contact Hours:** 4 per week

### ■ LSX223 MICROBIOLOGY 2

The growth of microbial populations and methods of controlling growth; sterilisation and disinfection methods; enzymic activity of microorganisms; the identification of the micro-organisms relevant to public health; host-parasite relationships and an introduction to immunity.

**Prerequisite:** LSX123

**Credit Points:** 8 **Contact Hours:** 3 per week

### ■ LSX224 PATHOLOGY

The application of scientific methods to the study of the general principles of disease processes and selected diseases of the organ systems. Correct understanding and use of pathological terms and concepts are emphasised.

**Credit Points:** 8 **Contact Hours:** 2 per week

### ■ LSX225 ANATOMY & PHYSIOLOGY 2

The broad objectives outlined LSX125 are continued; the relationships between structure and function at the level of organs and systems; the cardiovascular, lymphatic, respiratory, digestive, urinary, reproductive, and endocrine systems.

**Prerequisite:** LSX125

**Co-requisite:** LSX222

**Credit Points:** 8 **Contact Hours:** 3 per week

### ■ LSX310 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 provides the theoretical basis for students undertaking electives in aquaculture techniques and/or plant tissue culture.

**Credit Points:** 8 **Contact Hours:** 3 per week

### ■ LSX311 COMPUTER APPLICATIONS IN BIOLOGY

An introduction to microcomputers and applications-software such as wordprocessing, databases, 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

■ **LSX312 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

■ **LSX313 TAXONOMY**  
Investigation and identification of local flora and fauna; use and construction of keys. The concepts of systematics, classification, taxonomy and nomenclatural procedure are introduced in short lectures and tutorials associated with the practical exercises.  
**Credit Points:** 8      **Contact Hours:** 3 per week

■ **LSX314 AQUACULTURE TECHNIQUES**  
Topics include: water quality monitoring; culture methods for microscopic food organisms; disease and parasite identification and treatment; techniques associated with spawning, rearing, handling and stock assessment.  
**Credit Points:** 8      **Contact Hours:** 3 per week

■ **LSX315 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

■ **LSX316 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

■ **LSX320 CLINICAL BIOCHEMICAL TECHNIQUES 3**  
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:** LSX221, LSX225  
**Credit Points:** 8      **Contact Hours:** 4 per week

■ **LSX321 CLINICAL MICROBIOLOGICAL TECHNIQUES 3**  
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:** LSX2232  
**Credit Points:** 8      **Contact Hours:** 4 per week

■ **LSX322 HAEMATOLOGICAL TECHNIQUES 3**  
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.

**Prerequisites:** LSX125, LSX225  
**Credit Points:** 8      **Contact Hours:** 4 per week

■ **LSX323 HISTOLOGICAL TECHNIQUES 3**  
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:** LSX125, LSX225, LSX122  
**Credit Points:** 8      **Contact Hours:** 4 per week

■ **LSX324 IMMUNOLOGICAL TECHNIQUES 3**  
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:** LSX125, LSX225  
**Credit Points:** 8      **Contact Hours:** 4 per week

■ **LSX325 CYTOLOGICAL TECHNIQUES 3**  
Lectures and associated practical sessions in cytological methods and normal gynaecological cytology. This provides a basis for the study of clinical cytology offered in LSX425.  
**Prerequisites:** LSX221, LSX125, LSX225  
**Credit Points:** 8      **Contact Hours:** 4 per week

■ **LSX331 FOUNDATIONS OF ANAESTHETIC TECHNIQUES**  
Introduction to the ethical, moral and legal responsibilities of anaesthetic technicians; the standard equipment used in the operating rooms.  
**Credit Points:** 12      **Contact Hours:** 5 per week

■ **LSX332 PHYSIOLOGY & PHARMACOLOGY**  
A study of the anatomy and physiology of the main systems, with emphasis on the major pathological disturbances. Also an introduction to the pharmacology of drugs used in anaesthesia.  
**Prerequisite:** LSX225  
**Credit Points:** 12      **Contact Hours:** 5 per week

■ **LSX333 ELECTRONICS & COMPUTING**  
An understanding of the basic principles of electronics, enabling an understanding of the complex equipment used for the dispensing of anaesthesia; the basic hardware and software of computers; word processing, databases and spreadsheet.  
**Credit Points:** 12      **Contact Hours:** 5 per week

■ **LSX334 OPERATING ROOM EQUIPMENT**  
Introduction to the ancillary equipment used in operating rooms; the methods in use in the operating rooms; team roles in the operating room.  
**Credit Points:** 12      **Contact Hours:** 5 per week

■ **LSX410 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 subject.  
**Credit Points:** 8      **Contact Hours:** 3 per week

■ **LSX411 POPULATION BIOLOGY**  
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. Field excursions are a compulsory part of the subject.

**Co-requisite:** LSX412

**Credit Points:** 8 **Contact Hours:** 3 per week

#### ■ LSX412 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

#### ■ LSX413 APPLICATIONS IN ELECTRON MICROSCOPY

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

#### ■ LSX414 ANIMAL PHYSIOLOGY

The general physiological processes which sustain life and an understanding of animal-environment interactions.

**Credit Points:** 8 **Contact Hours:** 3 per week

#### ■ LSX415 PLANT CELL TISSUE CULTURE

Topics 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

#### ■ LSX420 CLINICAL BIOCHEMICAL TECHNIQUES 4

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:** LSX320

**Credit Points:** 8 **Contact Hours:** 4 per week

#### ■ LSX421 CLINICAL MICROBIOLOGICAL TECHNIQUES 4

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:** LSX223

**Credit Points:** 8 **Contact Hours:** 4 per week

#### ■ LSX422 HAEMATOLOGICAL TECHNIQUES 4

This subject is an extension of LSX322. The student is introduced to the common blood disorders. A brief outline of their courses and laboratory investigation is given. The main emphasis is the use of basic haematological techniques and some specialised laboratory procedures used in the investigation of commonly encountered blood diseases. The basic theory of haemostasis and the screening tests used in the investigation of the bleeding disorders are discussed.

**Prerequisite:** LSX322

**Credit Points:** 8 **Contact Hours:** 4 per week

#### ■ LSX423 HISTOLOGICAL TECHNIQUES 4

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:** LSX221, LSX323

**Credit Points:** 8 **Contact Hours:** 4 per week

#### ■ LSX424 TRANSFUSION TECHNIQUES 4

The basic knowledge of immunology gained in LSX324 applied 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:** LSX324

**Credit Points:** 8 **Contact Hours:** 4 per week

#### ■ LSX425 CYTOLOGICAL TECHNIQUES 4

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:** LSX325

**Credit Points:** 8 **Contact Hours:** 4 per week

#### ■ LSX431 CARDIAC CARE & RESUSCITATION

In the operating room and intensive care units, the cardiac status of patients is monitored by several devices. Students are introduced to these devices as well as to the resuscitation equipment used in emergency situations and special equipment used in lung and cardiac surgery.

**Prerequisite:** LSX332

**Credit Points:** 12 **Contact Hours:** 5 per week

#### ■ LSX432 CARE OF RESPIRATORY AIRWAYS & INTENSIVE CARE

The care and maintenance of equipment used for the respiratory airways and in intensive care; acid-base balance, blood gases, and the equipment needed for the monitoring of those parameters.

**Prerequisite:** LSX332

**Credit Points:** 12 **Contact Hours:** 5 per week

#### ■ LSX433 ANAESTHESIA FOR SPECIALISED SURGERY

Introduction to the different surgical interventions requiring anaesthesia; the techniques used and their effects on the vital parameters of patients in these special circumstances.

**Prerequisite:** LSX332

**Credit Points:** 12 **Contact Hours:** 5 per week

#### ■ LSX434 PROFESSIONAL PRACTICE

The practical skills needed for the proper delivery of anaesthetic in different situations. This is essentially a practical subject, which can only be taken towards the end of the course. The aim is for students to become proficient and confident in assisting with the delivery of anaesthesia.

**Prerequisite:** LSX334

**Co-requisites:** LSX431, LSX432, LSX433

**Credit Points:** 12 **Contact Hours:** 5 per week

#### ■ LWB101 INTRODUCTION TO LAW

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 contracts; equitable estoppel; 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 1

Basic legal research skills and methodology, and how to write assignments and solve legal problems. A study of the hierarchy of the courts and the doctrine of precedent; how to use a law library effectively; practice in handling the most important research materials. An introduction to the use of computerised legal research 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; Crown leasehold.

**Credit Points:** 12 per semester

**Contact Hours:** 3 per week

### ■ LWB202 CRIMINAL LAW & PROCEDURE

The criminal law in force in Queensland, encompassing 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. 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 assignments.

**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 include: the family as a legal phenomenon; annulment of marriages; dissolution of marriages; consequences of separation 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 include: nature and sources of commercial law; personal property; negotiable instruments including bills of exchange and cheques; bailment; sale of goods; consumer protection under the Trade Practices Act 1974; insurance.

**Credit Points:** 12 per semester

**Contact Hours:** 3 per week

### ■ LWB305 JURISPRUDENCE

Jurisprudence involves the application of insights gained from philosophy: in particular from logic and from moral, political and social philosophy: to the study of law. Topics include: historical background to modern theories, sociological and historical descriptions of law and legal change, theories of limited or unlimited government power, recognition of valid law and legal systems, legal reasoning, proper objects of law and the proper direction of legal change.

**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ LWB306 LOCAL GOVERNMENT LAW

The sources 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 subject 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 covers winding up of companies, schemes of arrangement and official management as procedures other than winding up which may be open to an insolvent

company, and the law relating to receivership and mortgages in possession. This includes a consideration of the relevant provisions of the Corporations Law.

**Credit Points:** 8      **Contact Hours:** 2 per week

#### ■ LWB308 INDUSTRIAL LAW

Industrial law examines the rights and duties of employers and employees under the law of employment, breach of these duties, and the remedies of both parties; entitlement to workers compensation and the benefits available; the law governing the operation of trade unions and the rights of members; the 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. The special position of the Crown and the question of government liability in contract and tort.

**Credit Points:** 12 per semester

**Contact Hours:** 3 per week

#### ■ LWB312 LAND CONTRACTS

This subject 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; 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 subject 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 include: the 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; 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 Income Tax Assessment Act 1936 (Cth) and some related statutes. Topics 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, aspects of fringe benefit tax.

**Credit Points:** 12 per semester

**Contact Hours:** 3 per week

#### ■ LWB404 CIVIL PROCEDURE

Examination of the procedures by which Superior Courts resolve civil disputes. Students become familiar with Supreme, District and Federal Court rules and their application to civil litigation. Students are instructed on how to manage civil litigation files by means of extensive simulations and drafting.

**Credit Points:** 12 per semester

**Contact Hours:** 3 per week

#### ■ LWB405 SOLICITORS' TRUST ACCOUNTS

Intending solicitors must study this subject which examines the Trust Account Act and Regulations and related legislation, including the Legal Assistance Act and Queensland Law Society Act. The subject provides detailed study of the legislation for practical and accounting purposes, including the format for documentation and records; reconciliations; investments; internal control and trust ledger accounts and trial balance. The course also examines the role of the auditor, audit requirements and Ministerial involvement.

**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 indepth 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 – conduct and etiquette at the Bar, specifically the character of practice at the Bar; regulation of practice at the Bar in Queensland; the respective duties of Barristers to the Law, the Court, the public, the client and the opponent. Solicitors – 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 subject deals with the law established by the Trade Practices Act 1974 (Cth), as amended, and related State Laws. Topics include: background to, and need for, the legislation; constitutional basis of the Commonwealth Act; administrative arrangements and enforcement procedures; control of restrictive practices; prohibition of unfair practices; 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 becomes 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 is undertaken, and the proposal is accepted or refused, and the student notified accordingly, not later than the first day of that teaching semester.

**Credit Points:** 12      **Contact Hours:** 5 per week

## ■ 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, business contracts and leases. Topics include: an introductory study of stamp duty and its applications, 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 2

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 subject 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. Topics 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; implications of data storage for privacy; freedom of information. The subject 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:** 12

**Contact Hours:** 3 per week

## ■ LWN001 ADVANCED COMPANY LAW

The first part of this subject considers the Companies (Acquisition of Shares) Code which regulates acquisition of shares effecting a change in a company's control. The second part 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:** 24

**Contact Hours:** 2 per week

## ■ LWN003 ADVANCED FAMILY LAW

A detailed examination of the law and underlying principles of selected areas of Family Law including: jurisdiction; financial aspects of marriage and divorce; children; marital and non-marital relationships. Where appropriate, comparisons with other countries are used and the impact of treaties is examined.

**Credit Points:** 24

**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**

The various aspects of the current Australian Trade Practices Act 1974, not only from a technical legal viewpoint but also from a wider view of the public policy issues involved. No knowledge of economics is required, although some readings are drawn from economics. Most of the subject is devoted to a study of Part IV of the Act; Part V is considered briefly (no more than six weeks) in Second Semester. The Trade Practices Act was drafted using the well-developed United States and EEC models as a basis, and the courts, in construing the Act, sometimes refer to the primary and secondary material available from these jurisdictions. The subject therefore makes law and policy comparisons with the United States and the EEC.

**Credit Points: 24      Contact Hours: 2 per week**

#### **■ LWN007 COMMERCIAL ARBITRATION**

Commercial arbitration – Australian and international. Topics include: nature and conduct of arbitration proceedings, court control of arbitration, awards and their enforcement, and international commercial arbitration.

**Credit Points: 24      Contact Hours: 2 per week**

#### **■ LWN008 COMMERCIAL LEASES**

An examination in depth of the standards of clauses of a modern Australian commercial lease in the light of recent case law and Queensland statutory provisions affecting such interests. Where appropriate, drafting techniques are explored against the background of current problems in specific areas with the assistance of invited specialist practitioners. The topics are covered largely by way of seminar problems preceded by some introductory lecture material. Topics include: negotiation of leases, subject matter of leases, covenants for repair, user, assignment, quiet possession, options to renew and purchase, insurance, the phenomenon of default, remedies of lessor and lessee, guarantees of leases.

**Credit Points: 24      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 subject 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: 24      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 subject 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: 24      Contact Hours: 2 per week**

#### **■ LWN014 THE PRINCIPLES OF NATURAL RESOURCES LAW**

An analysis of the relationships underlying the natural resources legal system in Australia. These include the State, the various executive agencies of the State, Parliament, the courts and other tribunals, the commercial community, the Aboriginal community, specific interest groups, the public interest and the community at large. It does so in relation to natural resources at large: the atmosphere, the surface of land and its related resources such as vegetation, forests, water, flora and fauna, sub-surface minerals and water, as well as the environment at large as a resource itself. The legal mechanisms include sovereignty, property, contractually and administratively created and regulated rights and duties, the common law, the criminal law, and planning and management regimes. The subject considers the international law context of the Australian system, the role of the Commonwealth and the law in Queensland.

**Credit Points: 12      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 subject examines 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**

#### **■ LWN018 SELECT PROBLEMS OF TRUSTS**

The first part of the subject concentrates on aspects of express trusts including a short refresher, management of trustee investments, and consideration of a model trustee code. The remainder of the subject concentrates upon the area of constructive trusts, and examines the nature and development of the constructive trust as a remedy with particular emphasis upon recent significant Australian decisions.

**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 is 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 1**

Lending on the security of goods and priorities in relation to chattel securities; lending on the security of proceeds, 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 2

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; 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

Investigation of problems that occur in the law relating to the activities of tribunals and enquiries. The subject concentrates on Royal Commissions and related forms of enquiries, as well as Statutory Tribunals exercising quasi-judicial functions. Topics include: the power to require information; the privilege against self-incrimination; Crown privilege and duties of secrecy; do the rules of procedural fairness apply?; can an enquiry commit a contempt of court?; enquiries and the rules of parliamentary privilege; the power of the courts to review the activities of enquiries; enquiries that investigate a mixture of Federal and State matters; enquiries and the laws of privacy; legislative attempts to oust judicial review of enquiries and tribunals.

**Credit Points:** 12      **Contact Hours:** 2 per week

#### ■ LWN025 RESEARCH PROJECT 1

A supervised research project over one semester approved by the Postgraduate Studies Committee.

**Credit Points:** 12

#### ■ LWN026 RESEARCH PROJECT 2

A supervised research project over the whole year approved by the Postgraduate Studies Committee.

**Credit Points:** 24

#### ■ LWN027 THE PRACTICE OF NATURAL RESOURCES LAW

The practical application of the principles identified and analysed in LWN014. There are many issues in natural resources management currently under discussion: protection of the ozone layer, regulation of industrial chemicals, disposal of hazardous waste, coastal management, rehabilitation of land, environmental auditing, ecologically sustainable development, pollution control, soil erosion, catchment management, and conservation of the cultural heritage. The subject examines issues such as these from a predominantly legal perspective. It is in this sense topic-oriented and the topics selected for analysis reflect the interests of members of the class. A knowledge and understanding of the natural resources legal system in Australia is necessary for full advantage to be taken of this course.

**Credit Points:** 12      **Contact Hours:** 2 per week

#### ■ LWN028 ADVANCED SECURITIES

Competing claims to fixtures on land; the nature of a charge and a mortgage; security over bank accounts; recent problems with Bills of Sale legislation; the mortgagee's power of sale; guarantees and indemnities; fixed and floating securities; some problems arising from receiverships and mortgagees in possession; securities and the Trade Practices Act; bank guarantees and unconditional performance bonds; the demise of the *scintilla temporis* principle; *romalpa* clauses; co-ownership and security interests; negative pledges; securities over future property; the nature of various security interests; and the giving of formal opinions in relation to security documentation.

**Credit Points:** 12

#### ■ LWN029 THEORETICAL CRIMINOLOGY

Legal and criminological conceptions of crime and punishment: nature, scope and objects of criminology. Criminological theory: classical and neo-classical theories; the positivist school; physical and biological factors and theories; psychological and psychiatric explanations, including the notion of danger; crime as a social phenomenon; radical or critical criminology; law and social change; theories of punishment.

**Credit Points:** 12      **Contact Hours:** 2 per week

#### ■ LWN030 DISPUTE RESOLUTION/MEDIATION

A study of mediation looking at both the theory and practice. Students are expected to take part in a number of class workshops to learn mediation skills; therefore an attendance rate of 70% (ie 10 out of 14 classes) is necessary for students to gain a mark in the subject. Issues include: mediation in Australia; theories of mediators; different forms of mediation, ie. neighbourhood, family, commercial; the advantages and disadvantages of mediation; power imbalance; when mediation is not appropriate; ethical and professional issues relating to mediation. Selected readings from relevant texts and journals are distributed at the first class.

**Credit Points:** 12      **Contact Hours:** 2 per week

#### ■ LWN031 FOREIGN INVESTMENT & PROPERTY DEVELOPMENT LAW IN AUSTRALIA

Examination of Australian foreign investment policy and regulation and property development regulation, with a strong bias towards problems arising in practice for both areas. Foreign investment policy guidelines; the regulation of foreign investment proposals by FIRB and under the FATA; special regulation of land title and interest in land for foreigners; controls for special categories of investment and development projects such as tourism, integrated resorts, shopping centres, residential development, mining, resources development and primary industries. Matters of indirect regulation concerning such projects, eg. exchange controls, taxation implications for foreigners, business migration, customs requirements, etc. Special attention is given to aspects of governmental relations and government transactions which affect such projects and also to general regulation and protection under the law for the infrastructure of the investment or development project. Special attention is also given to the developing scope of environmental protection and other special regulatory legislation in Queensland.

**Credit Points:** 12      **Contact Hours:** 2 per week

#### ■ LWN032 CREDIT FOR UQ SUBJECT 1

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 LLM 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.  
**Credit Points: 12**

#### ■ LWN033 CREDIT FOR UQ SUBJECT 2

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 LLM 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.  
**Credit Points: 12**

#### ■ LWN034 CREDIT FOR UQ SUBJECT 3

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 LLM 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.  
**Credit Points: 24**

#### ■ LWN035 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 health-care workers.  
**Credit Points: 12      Contact Hours: 2 per week**

#### ■ LWN037 STAMP DUTY & COMMERCIAL TRANSACTIONS

Whilst stamp duty remains a tax on instruments, amendments to the Stamp Act have had the result that it is essentially a transactional impost. Upon completion of this subject, students have a sound understanding of the scope of the Act and of the circumstances in which commercial transactions attract a liability to duty. Topics include: territorial nexus; stamp duty administration; scheme of the Act and overview of the Heads of Charge; transactions concerning companies; transactions concerning trusts; partnership transactions; leasing and hiring transactions; financial transactions; planning and structuring issues; anti-avoidance provisions.  
**Credit Points: 12      Contact Hours: 2 per week**

#### ■ LWN038 CAPITAL GAINS TAX & COMMERCIAL TRANSACTIONS

The capital gains tax provisions contained in Part IIIA of the Income Tax Assessment Act have the potential to apply to innumerable acts, transactions and events. Upon completion of this subject, students have a sound understanding of the scheme of taxation which underpins the Part and of the application of that

scheme to commercial transactions. Topics include: the relationship between Part IIIA and the other taxing provisions of the Act; the general scheme of Part IIIA; the threshold conditions to the application of the Part; the calculation provisions of the Part; the function and operation of roll-over provisions; companies and capital gains tax; partnerships and capital gains tax; trusts and capital gains tax; planning and structuring issues; tax avoidance and capital gains tax.  
**Credit Points: 12      Contact Hours: 2 per week**

#### ■ LWN039 APPLIED CRIMINOLOGY

Perceptions of crime and justice: the identification and measurement of crime; social location of crime; administration of criminal justice; key issues: victims of crime; juvenile, white-collar and corporate crime; privacy, Aborigines and criminal justice; the system of corrections.  
**Credit Points: 12      Contact Hours: 2 per week**

#### ■ LWN040 THEORIES OF JUSTICE

Introduction to the history and development of the concept of justice within western and other traditions. Emphasis is placed upon the socio-political implications of these developments and their contemporary relevance to the law in Australia.  
**Credit Points: 12      Contact Hours: 2 per week**

#### ■ LWN100 HONOURS DISSERTATION

A dissertation undertaken by students enrolled in the Master of Laws by Coursework program who have obtained 96 credit points with a GPA of 6 or better. The dissertation is between 20,000 and 30,000 words in length.  
**Credit Points: 48**

#### ■ 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 are introduced and court decisions studied.  
**Credit Points: 12      Contact Hours: 3 per week**

#### ■ LWS005 LAW & NURSING

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: 8      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**

### ■ MAB102 BASIC MATHEMATICS

Algebra; factorising polynomials; index and logarithm laws; AP and GP trigonometrical ratios; Pythagorean identities; graphs; sine rule and cosine rule; coordinate geometry; equations of lines and standard conics; introduction to differential calculus; curve sketching; Newton-Raphson method; elementary integration; definite and indefinite integrals; use of tables of integrals; Simpson's rule.

**Credit Points:** 12      **Contact Hours:** 4 per week

### ■ MAB152 QUANTITATIVE METHODS

Organisational, analysis and interpretation of data; solution of practical problems involving basic calculus techniques and numerical methods; probability distributions; sampling; estimation; regression and correlation.

**Credit Points:** 8      **Contact Hours:** 3 per week

### ■ MAB172 QUANTITATIVE METHODS 1B

Organisation and analysis of data; use of computer packages in data analysis; probability and probability distributions; sampling theory; estimation; testing of hypotheses; 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

### ■ MAB181 APPLIED MATHEMATICS FOR DESIGNERS 1

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

### ■ MAB182 APPLIED MATHEMATICS FOR DESIGNERS 2

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

### ■ MAB193 ENGINEERING MATHEMATICS 1

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 1

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 2

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 1

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

### ■ MAB212 MATHEMATICS 1

Determinants and matrices; solution of systems of linear equations. Differentiation; second and higher derivatives; exponential, trigonometric, hyperbolic and inverse functions. Logarithmic, implicit and parametric differentiation. Rates of change, maxima and minima, curve sketching. Partial differentiation; geometrical interpretation; partial derivatives of higher order. Definite integral as area, indefinite integral, fundamental theorem of calculus. Integration by substitution and by parts. Improper integrals. Use of tables of integrals. Newton's method; Trapezoidal rule; Simpson's rule.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ MAB213 MATHEMATICS 1A

Real valued functions; differentiation; introduction to partial differentiation; integration, techniques of integration; elementary special functions.

**Credit Points:** 12      **Contact Hours:** 4 per week

### ■ MAB222 MATHEMATICS 2

Revision of straight line and circle; translation of axes; parabola, ellipse, hyperbola. Exponential growth and decay; hyperbolic functions. Areas, volumes, lengths of curves and surface areas. Algebra of vectors; scalar and vector products, direction cosines, planes and lines. Rotation of axes in the plane. Differentiation of vectors, simple kinematic applications. Series expansions of functions by Taylor and Maclaurin series; approximations. Complex numbers; modulus, Argand diagram, exponential form; applications. Ordinary differential equations. First order: variables separable; exact, linear, homogeneous. Second order: linear homogeneous differential equations with constant coefficients.

**Prerequisite:** MAB212

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ MAB232 DISCRETE MATHEMATICS

Combinatorics; logic; set theory; axiomatic systems; modular arithmetic; rings, integral domains, fields; finite groups; elementary number theory; difference equations.

**Co-requisite:** MAB222

**Credit Points:** 12      **Contact Hours:** 4 per week

### ■ MAB237 STATISTICS

The collection of statistical data from surveys and experiments, investigation and analyses of the data; drawing valid conclusions. Students study real data via computer packages and are introduced to the basic

concepts of estimation, hypothesis testing, regression and analysis of variance.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ MAB251 MATHEMATICS 1

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:** 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:** 2 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:** 12      **Contact Hours:** 4 per week

#### ■ MAB303 ALGEBRA & ANALYSIS B

Set theory, relations and functions; introduction to difference equations; infinite series; complex numbers; linear equations; matrices and determinants; vector spaces; eigenvalues and eigenvectors.

**Co-requisite:** MAB301

**Credit Points:** 12      **Contact Hours:** 4 per week

#### ■ MAB304 CALCULUS & VECTOR ALGEBRA

Improper integrals; first and second order linear differential equations; elementary vector algebra; Euclidean spaces; introduction to differential geometry of curves, conic sections.

**Prerequisites:** MAB301, MAB303

**Credit Points:** 12      **Contact Hours:** 4 per week

#### ■ MAB321 COMPUTATIONAL MATHEMATICS

Sources of errors; computer arithmetic; computations with polynomials, standard functions, recurrence relations and series; computations with data, searching, sorting, sums and means; computations with arrays; use of calculators, programming languages and graphical/mathematical software.

**Prerequisites:** CSB155, MAB303

**Credit Points:** 12      **Contact Hours:** 4 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:** 12      **Contact Hours:** 4 per week

#### ■ MAB347 STATISTICS 1A

Collection and representation of data, parameters and statistics; elementary treatment of sampling; sample mean and variance; statistical estimation and tests of hypotheses based on the normal, t, F and chi-square distributions; linear regression and correlation; introduction to experimental design; introduction to non-parametric tests.

**Credit Points:** 12      **Contact Hours:** 4 per week

#### ■ MAB348 STATISTICS 1B

Probability; conditional probability; random variables and probability distributions; binomial, Poisson, exponential, uniform, normal; expected values and moments, sums and differences of random variables; sampling distributions and their properties, estimation.

**Prerequisite:** MAB347

**Co-requisite:** MAB301

**Credit Points:** 12      **Contact Hours:** 4 per week

#### ■ MAB420 FINITE MATHEMATICS

Set theory; relations and functions; finite group theory; Boolean algebra; methods of proof including induction; introduction to combinatorics; finite state machines; number theory; introduction to ring theory.

**Prerequisites:** MAB222, MAB232

**Credit Points:** 12      **Contact Hours:** 4 per week

#### ■ MAB421 COMPUTATIONAL MATHEMATICS

Errors: sources, propagation, control; computations with polynomials, standard functions, recurrence relations and series; computations with data, searching, sorting, sums and means; computations with arrays; use of electronic calculators, PC-based Programming Languages (PASCAL), mathematical/graphical support software (DERIVE).

**Prerequisites:** MAB222, CSB155

**Credit Points:** 12      **Contact Hours:** 4 per week

#### ■ MAB422 TOPICS IN MATHEMATICS

Topics in geometry, recreational mathematics, and the history of mathematics.

**Prerequisite:** MAB222

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ MAB430 LINEAR ALGEBRA & ITS APPLICATIONS

Vector spaces; linear transformations; eigenvalues and eigenvectors; Euclidean spaces; quadratic forms.

**Prerequisites:** MAB232, MAB222

**Credit Points:** 12      **Contact Hours:** 4 per week

#### ■ MAB432 MATHEMATICS 3

Laplace transforms; ordinary differential equations of first and higher order; multivariable calculus; Fourier series and Fourier transforms; applications particularly relevant to physics.

**Prerequisite:** MAB222

**Credit Points:** 12      **Contact Hours:** 4 per week

#### ■ MAB443 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 to basic modelling techniques.

**Prerequisite:** MAB222

**Credit Points:** 12      **Contact Hours:** 4 per week

**■ MAB447 STATISTICS 1A**

See MAB347.

**Credit Points:** 12      **Contact Hours:** 4 per week

**■ MAB448 STATISTICS 1B**

See MAB348.

**Prerequisite:** Credit in MAB237 or MAB447

**Co-requisite:** MAB222

**Credit Points:** 12      **Contact Hours:** 4 per week

**■ MAB452 MATHEMATICS 4**

Partial differential equations; vector analysis; vector integration theorems; introduction to tensors; applications particularly relevant to physics.

**Prerequisite:** MAB432

**Credit Points:** 12      **Contact Hours:** 4 per week

**■ MAB462 VECTOR ANALYSIS**

Vector algebra; vector products, identities and equations; physical and geometrical applications; differentiation and integration of vectors; differential geometry of curves; conic sections.

**Prerequisite:** MAB212

**Credit Points:** 12      **Contact Hours:** 4 per week

**■ MAB493 ENGINEERING MATHEMATICS 2**

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 2**

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.

**Prerequisite:** MAB199[R]

**Credit Points:** 5      **Contact Hours:** 2 per week

**■ MAB601 MULTIVARIABLE CALCULUS**

Differentiation, extrema; double integrals, triple integrals, surface integrals; functions of a complex variable, analyticity, complex integration.

**Prerequisites:** MAB303, MAB304

**Credit Points:** 12      **Contact Hours:** 4 per week

**■ MAB602 VECTOR FIELD THEORY**

Vector analysis; scalar and vector fields; line integrals; surface integrals; differential field operators; the integral properties of fields. Tensor analysis; 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:** MAB601

**Credit Points:** 12      **Contact Hours:** 4 per week

**■ MAB612 DIFFERENTIAL EQUATIONS**

Linear differential equations, series methods, Laplace transforms; self adjoint boundary value problems and

Fourier series; introduction to partial differential equations; mathematical modelling, applications of differential equations.

**Prerequisite:** MAB303, MAB304

**Credit Points:** 12      **Contact Hours:** 4 per week

**■ MAB618 NUMERICAL ANALYSIS 1**

Solution of systems of linear equations; numerical solution of a single non-linear equation; interpolation; quadrature; numerical solution of a single first order differential equation.

**Prerequisite:** MAB321

**Credit Points:** 12      **Contact Hours:** 4 per week

**■ MAB619 NUMERICAL ANALYSIS 2**

Systems of linear equations: direct methods, measure of work, iterative refinement, error analysis; indirect methods, convergence considerations; systems of non-linear equations; quadrature, Romberg integration; ordinary differential equations, initial and boundary value problems; eigenvalue problems, power method, inverse iteration.

**Prerequisite:** MAB618      **Co-requisite:** MAB630

**Credit Points:** 8      **Contact Hours:** 3 per week

**■ MAB620 FINITE MATHEMATICS**

Set theory; relations and functions; finite group theory; Boolean algebra; methods of proof including induction; introduction to combinatorics; finite state machines; number theory; introduction to ring theory.

**Prerequisite:** MAB303

**Credit Points:** 12      **Contact Hours:** 4 per week

**■ MAB630 LINEAR ALGEBRA & ITS APPLICATIONS**

Real and complex vector spaces, inner products; linear operators in finite dimensional space; eigen analysis, vector and matrix norms; quadratic forms; applications.

**Prerequisite:** MAB303

**Credit Points:** 12      **Contact Hours:** 4 per week

**■ MAB635 MECHANICS**

Statics; kinematics of a particle; relative motion; conservation laws of dynamics; motion of a particle in one and two dimensions; impulsive motion.

**Prerequisite:** MAB304

**Credit Points:** 12      **Contact Hours:** 4 per week

**■ MAB637 OPERATIONS RESEARCH 1A**

The fundamentals of linear programming; replacement, maintenance and reliability; project scheduling techniques; simulation.

**Prerequisite:** MAB303, MAB347

**Credit Points:** 12      **Contact Hours:** 4 per week

**■ MAB638 OPERATIONS RESEARCH 1B**

Transportation, transshipment and assignment models; introduction to sensitivity analysis; inventory models; introduction to queueing theory.

**Prerequisite:** MAB637

**Credit Points:** 8      **Contact Hours:** 3 per week

**■ MAB641 ACTUARIAL MATHEMATICS**

The life table; demographic techniques; pure endowments and annuities; assurance; policy values; laws of mortality; benefits depending on other contingencies; pension funds.

**Prerequisite:** MAB301, MAB342

**Credit Points:** 12      **Contact Hours:** 4 per week

**■ MAB647 STATISTICS 2A**

Bivariate distributions; conditional distributions; covariance; moment generating functions; joint mgf's and their uses in i.i.d. cases; transformations; sam-

pling distributions; introduction to sampling from finite populations; introductory Markov chains; introduction to time series and auto correlation; some convergence ideas; order statistics.

**Prerequisite:** MAB348, MAB301

**Co-requisite:** MAB303

**Credit Points:** 12      **Contact Hours:** 4 per week

### ■ MAB648 STATISTICS 2B

One way ANOVA and multiple comparisons; Kruskal-Wallis alternative; blocking; two way ANOVA; replication, interaction; factors, levels, 22 factorial; missing values, data quality; multiple and polynomial regression; residuals; use of covariates; time series data and analysis; Q - Q plots, normal scores, introductory transformations; use of ranks; non-parametric techniques.

**Prerequisite:** MAB348

**Credit Points:** 8      **Contact Hours:** 3 per week

### ■ MAB712 DIFFERENTIAL EQUATIONS

Vector spaces with inner product; linear operations in finite dimensional spaces; linear differential equations; series methods; Laplace transforms; self adjoint boundary problems and Fourier series; partial differential equations.

**Prerequisite:** MAB452

**Credit Points:** 12      **Contact Hours:** 4 per week

### ■ MAB720 INTRODUCTION TO CRYPTOLOGY

Number theory; finite field theory; information theory; classical ciphers; modern symmetric ciphers, public key ciphers; practical cryptology.

**Prerequisites:** MAB420, MAB421

**Credit Points:** 12      **Contact Hours:** 4 per week

### ■ MAB721 ACTUARIAL MATHEMATICS

The life table; demographic topics including population projection techniques; pure endowments, life annuities, life assurances, policy values; laws of mortality; topics in general insurance.

**Co-requisite:** MAB442

**Credit Points:** 12      **Contact Hours:** 4 per week

### ■ MAB722 VECTOR FIELD THEORY

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:** MAB452

**Credit Points:** 12      **Contact Hours:** 4 per week

### ■ MAB725 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.

**Prerequisite:** MAB432

**Credit Points:** 12      **Contact Hours:** 4 per week

### ■ MAB728 NUMERICAL METHODS 1

Errors; systems of linear equations (direct methods); solution of non-linear equations; interpolation and approximation; numerical quadrature; numerical solution of first order ordinary differential equations

**Prerequisite:** MAB421

**Credit Points:** 12      **Contact Hours:** 4 per week

### ■ MAB729 NUMERICAL METHODS 2

Systems of linear equations: direct methods, measure of work, iterative refinement, error analysis; indirect

methods, convergence considerations; systems of non-linear equations; quadrature (Romberg integration); ordinary differential equations, (initial and boundary value problems); eigenvalue problems, (power method, inverse iteration).

**Prerequisite:** MAB728

**Co-requisite:** MAB430

**Credit Points:** 8

**Contact Hours:** 3 per week

### ■ MAB747 STATISTICS 2A

Moment generating functions and their use in investigating the properties of particular distributions; introduction to bivariate and multivariate distributions; introduction to stochastic processes, Markov claims; introduction to time-series; autocorrelation.

**Prerequisites:** MAB448, MAB222

**Credit Points:** 12      **Contact Hours:** 4 per week

### ■ MAB748 STATISTICS 2B

One way ANOVA and multiple comparisons; Kruskal-Wallis alternative; blocking; two way ANOVA; replication, interaction; factors, levels, 22 factorial; missing values, data quality; multiple and polynomial regression; residuals; use of covariates; time series data and analysis; Q - Q plots, normal scores, introductory transformations; use of ranks; non-parametric techniques.

**Prerequisites:** MAB448, MAB222

**Credit Points:** 8      **Contact Hours:** 3 per week

### ■ MAB777 OPERATIONS RESEARCH 1A

The algorithm, simulation, replacement, maintenance and reliability, networks.

**Prerequisites:** MAB222, CSB155

**Co-requisite:** MAB448

**Credit Points:** 12      **Contact Hours:** 4 per week

### ■ MAB778 OPERATIONS RESEARCH 1B

Transportation, transshipment and assignment models; introductory sensitivity analysis; inventory models; introduction to queueing theory.

**Prerequisite:** MAB787

**Credit Points:** 8      **Contact Hours:** 3 per week

### ■ MAB781 MULTIVARIABLE CALCULUS

Differentiation, extrema, double integrals, triple integrals, surface integrals; complex integration.

**Prerequisite:** MAB432

**Credit Points:** 12      **Contact Hours:** 4 per week

### ■ MAB795 SURVEY MATHEMATICS 3

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, Choelsky, iterative methods.

**Prerequisite:** MAB495

**Credit Points:** 6      **Contact Hours:** 3 per week

### ■ MAB893 ENGINEERING MATHEMATICS 3

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 4

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, introduc-

tion to numerical techniques; complex variables, Cauchy-Riemann equations, conformal mapping.

**Prerequisite:** MAB493

**Credit Points:** 6      **Contact Hours:** 3 per week

**■ MAB895 INTRODUCTION TO CRYPTOLOGY**

Number theory; finitely field theory; information theory; classical ciphers; key ciphers; practical cryptology.

**Prerequisite:** MAB493

**Credit Points:** 7      **Contact Hours:** 4 per week

**■ MAB896 ERROR CORRECTION & DATA COMPRESSION**

Data compression techniques; introduction to block codes; convolutional codes; cyclic codes and Reed-Solomon codes; other coding techniques and applications.

**Prerequisite:** MAB895

**Credit Points:** 7      **Contact Hours:** 4 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:** 4 per week

**■ MAB907 STATISTICS 3A**

Estimation; testing; exponential; linear models; introduction to generalised linear models; multicollinearity, heteroscedasticity, effect of autocorrelation; non linear LSE; introduction to diagnostics.

**Prerequisites:** MAB647, MAB648, MAB303

**Credit Points:** 12      **Contact Hours:** 4 per week

**■ MAB908 STATISTICS 3B**

Experimental design; response surfaces; optimal design; transformations, diagnostics, influential observations, some EDA.

**Prerequisite:** MAB648

**Credit Points:** 12      **Contact Hours:** 4 per week

**■ MAB913 NUMERICAL ANALYSIS 3**

Hilbert spaces; the projection theorem; application to discrete polynomial and trigonometric approximation; Legendre polynomials; Gaussian quadrature; Chebyshev polynomials; Chebyshev approximation. Reduction of a matrix to upper Hessenberg form by similarity transforms, orthogonal reductions, Givens and Householder methods, determination of eigenvalues by the QR algorithm, emphasis on symmetric matrices. Stability analyses for IVPs, types of instability, inherent and induced, partial instability.

**Prerequisite:** MAB619

**Credit Points:** 12      **Contact Hours:** 4 per week

**■ MAB920 CODING & ENCRYPTION TECHNIQUES**

Number theory; finite field theory; information theory; classical ciphers; modern symmetric ciphers, public key ciphers; practical cryptography.

**Prerequisite:** MAB622

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ MAB927 OPERATIONS RESEARCH 2A**

Algorithms of linear programming; integer and mixed integer programming; non-linear programming; dynamic programming; heuristic methods.

**Prerequisite:** MAB638

**Credit Points:** 12      **Contact Hours:** 4 per week

**■ MAB928 OPERATIONS RESEARCH 2B**

Simulation; queuing theory; decision analysis; implementation in operations research.

**Prerequisite:** MAB637

**Credit Points:** 12      **Contact Hours:** 4 per week

**■ MAB929 TIME SERIES & STATISTICAL FORECASTING**

Review of smoothing and decomposition methods; ARMA time series methods; Box-Jenkins method; pooling of time series and cross-sectional data; causality; recursive estimation and prediction of stationary processes; multivariate time series; comparison and selection of forecasting methods.

**Prerequisites:** MAB647, MAB648

**Credit Points:** 12      **Contact Hours:** 4 per week

**■ MAB941 MATHEMATICAL MODELLING IN ECONOMICS**

Mathematical models in economics; macro and micro economic models; simulation; growth and decay models; dynamic economic models; introduction to stability theory; stability of linear systems.

**Prerequisites:** MAB601, MAB612

**Credit Points:** 12      **Contact Hours:** 4 per week

**■ MAB942 OPTIMISATION METHODS**

Analytic calculation of maxima and minima in functions of several variables; constrained optimisation using Lagrange multiplier and penalty techniques; quadratic and convex programming; 1 dimensional search techniques; direct (non-derivative) search techniques; gradient methods; least squares; global optimisation strategies.

**Prerequisites:** MAB601, MAB618

**Credit Points:** 12      **Contact Hours:** 4 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 192 credit points including at least two subjects from List D of the course requirements.

**Credit Points:** 12      **Contact Hours:** 4 per week

**■ MAB970 PROBABILITY THEORY & STOCHASTIC PROCESSES**

Probability measures, conditional probability; distributions and random variables. Convergence of random variables; strong and weak laws of large numbers; central limit theorems. Markov processes: birth and death, queues; epidemics; inference. Point processes: marked point processes; filtered processes; inference, simulation. Branch process.

**Prerequisite:** MAB647

**Credit Points:** 12      **Contact Hours:** 4 per week

**■ MAB971 ADVANCED MATHEMATICS OF FINANCE**

Study of mathematical techniques and concepts which are important in capital markets, foreign exchange dealings, fund management and assessment. Other advanced topics to be developed in consultation with the financial industry.

**Prerequisite:** MAB641

**Credit Points:** 12      **Contact Hours:** 4 per week

#### ■ MAB972 ERROR CORRECTION & DATA COMPRESSION

Data compression techniques; introduction to block codes; convolutional codes; cyclic codes and Reed-Solomon codes; other coding techniques and applications.

**Prerequisite:** MAB920

**Credit Points:** 12      **Contact Hours:** 4 per week

#### ■ MAB973 PARTIAL DIFFERENTIAL EQUATIONS

Derivation and solution of first order partial differential equations. Derivation of second order partial differential equations: the wave equation, the heat conduction equation, the equation of a bending beam, equations for fluid flow. Classification of second order equations. Discussion of boundary conditions. Solution of second order equations by: the method of characteristics, separation of variables, integral transforms.

**Prerequisites:** MAB602, MAB612

**Credit Points:** 12      **Contact Hours:** 4 per week

#### ■ MAB974 SAMPLING & SURVEY TECHNIQUES

Simple and stratified random sampling; estimates; design of questionnaires; data quality and errors in surveys; systematic, cluster and double sampling plans; imputation techniques; alternatives to household surveys.

**Prerequisites:** MAB647, MAB648

**Credit Points:** 12      **Contact Hours:** 4 per week

#### ■ MAB975 ORDINARY DIFFERENTIAL EQUATIONS & CHAOS

Singular points in systems of ordinary differential equations; eigenvalues of systems of ordinary differential equations; system stability using phase plane portraits; chaotic systems; analytic and numerical solution of equations describing systems with chaotic and singular behaviour.

**Prerequisites:** MAB601, MAB612, MAB619

**Credit Points:** 12      **Contact Hours:** 4 per week

#### ■ MAB976 RELIABILITY & SURVIVAL ANALYSIS

Failure rates; life distributions and inference; extreme values; fitting tails; flood data; IFR, NBU; system reliability; censored sampling; Cox proportional hazards model; competing hazards.

**Prerequisites:** MAB647, MAB648

**Credit Points:** 12      **Contact Hours:** 4 per week

#### ■ MAB977 SCHEDULING & NETWORKS

Deterministic and probabilistic inventory models. Aggregate planning and master scheduling. Requirement planning. Operations sequencing and balancing. Project management: network models, minimum cost paths. 'Just in time' problems and enhanced scheduling. Replacement, maintenance and reliability.

**Credit Points:** 12      **Contact Hours:** 4 per week

#### ■ MAB978 STATISTICAL SIGNAL PROCESSING & IMAGE ANALYSIS

Signal processing; time domain; Kalman filtering and prediction. Frequency domain: spectral representation of stationary processes. Inference for the spectrum of a stationary process. The cross spectrum. Spectral representation of multivariate stationary time series. Prediction in the frequency domain. Statistical image analysis: spatial processes. Regression and spatial autocorrelation. Two dimensional spectral

analysis, 2 dimensional filtering and image enhancement. Image compression.

**Prerequisites:** MAB318, MAB608

**Credit Points:** 12      **Contact Hours:** 4 per week

#### ■ MAB979 STATISTICAL MODELLING & DATA ANALYSIS

Robust procedures and principles: influence function; robust estimation; simulation studies; M-estimation. Distribution theory of statistics based on ranks. Robust regression. EDA; graphics; model choice, assessment and fitting; distributional families used in data analysis, inference studies and simulations; transformations, including Box-Cox. Outliers.

**Prerequisites:** MAB907, MAB601

**Credit Points:** 12      **Contact Hours:** 4 per week

#### ■ MAB980 STOCHASTIC PROCESSES & APPLICATIONS

Gaussian processes; Brownian motion; diffusions; stochastic equations; martingales; random walks; central limit theorems; applications of martingales. Epidemic models. Queueing models. Stochastic compartment models. Extreme value theory for stochastic processes.

**Prerequisites:** MAB970 or (MAB906, MAB929)

**Credit Points:** 12      **Contact Hours:** 4 per week

#### ■ MAB981 APPLIED STATISTICAL INFERENCE & EXPERIMENTATION

Jackknife, bootstrap and other resampling ideas; prediction. Application to calibration. Introduction to Bayesian ideas; applications of Bayesian theory; quasi-likelihood; principal component analysis; discriminant and cluster analysis; some robust methods in experimental design and data analysis

**Prerequisites:** MAB907, MAB908, MAB630

**Credit Points:** 12      **Contact Hours:** 4 per week

#### ■ MAB982 ADVANCED TOPICS IN CRYPTOLOGY

Advanced information theory: indepth study of the relation between information theory and cryptology. Design and cryptanalysis of ciphers: indepth study of methods for forming secure ciphers and attacking various ciphers. Secret sharing schemes: introduction to various secret sharing schemes and their application. Crypto-protocols: study of methods of protocol including zero knowledge systems. Current topics in cryptology: study of current developments and trends in cryptology.

**Prerequisite:** MAB920 or (MAB895 + GPA 5)

**Credit Points:** 12      **Contact Hours:** 4 per week

#### ■ MAB983 FINITE MATHEMATICS

Topics in finite mathematics.

**Prerequisite:** Approved Honours or postgraduate program.

**Credit Points:** 24      **Contact Hours:** 8 per week

#### ■ MAB984 ACTUARIAL STATISTICS

Distribution theory. Financial stochastic models and problem-solving with them. Credibility, utility and risk theory. Loss and ruin models.

**Prerequisite:** MAB907      **Co-requisite:** MAB970

**Credit Points:** 12      **Contact Hours:** 4 per week

#### ■ MAB985 NUMERICAL ANALYSIS

The diffusion equation, finite difference methods, DuFort-Frankel and Crank-Nicholson methods, alternating direction methods; stability considerations. Elliptic boundary value problems, finite difference methods. Hyperbolic type equations, use of finite



differences, method of characteristics. Use of software packages.

**Prerequisite:** MAB913

**Credit Points:** 12 **Contact Hours:** 4 per week

### ■ MAB986 MATHEMATICAL MODELLING OF INDUSTRIAL PROCESSES

Solution of the steady/unsteady heat conduction equation with: variable thermal conductivity, different types of boundary conditions, irregular boundaries, moving interfaces, eg. solidification, non-linear forms, eg. natural convection, point sources. Derivation and discussion of the viscous fluid flow equations: primitive form of equations, stream function and vorticity transport form, conservative and non-conservative forms, stability, solving the equations numerically, boundary conditions.

**Prerequisites:** MAB973, MAB601, MAB913

**Co-requisite:** MAB985

**Credit Points:** 12 **Contact Hours:** 4 per week

### ■ MAB987 OPTIMISATION OF CONTROLLED PROCESSES

Calculus of variations, lagrange formulation, mayer formulation, bolza formulation, constraints, corner conditions, transversal conditions. Pontryagin's maximum principle. Relationship of the above to dynamic programming. Practical applications of the above to: design of optimal control strategies, time optimal control, optimal continuous scheduling.

**Prerequisites:** MAB601, MAB612

**Credit Points:** 12 **Contact Hours:** 4 per week

### ■ MAB989 PROJECT

Project and thesis component of Honours course (SC60).

**Prerequisite:** Approved Honours program.

**Credit Points:** 36

### ■ 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 1 and type 2 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), OC 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.

**Credit Points:** 8 **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 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:** 6 per semester

**Contact Hours:** 3 per week

### ■ 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 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

### ■ MAX173 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

### ■ MDB101 PERSONAL COMPUTING

The development of competence with modern computers and peripherals so that they can be used with young children; wordprocessing and the use of database and spreadsheet packages; the features of computers important for teaching and the use of computers with young children.

**Credit Points:** 4 **Contact Hours:** 2 per week

### ■ MDB102 NUMBER ENRICHMENT FOR YOUNG CHILDREN

The development of practical activities and constructing classroom resources to teach number in early childhood; counting and precounting activities; early grouping and numeration games; language and number materials; early estimation and mental computation techniques and number puzzles and tricks.

**Credit Points:** 4 **Contact Hours:** 2 per week

### ■ **MDB103 MATHEMATICAL THINKING & PROBLEM SOLVING**

Creative problem solving and mathematical thinking activities suitable for kindergarten, preschool and years 1-3; problem solving with materials; early logical thinking; visual patterns with blocks, jigsaw and other puzzles, and cooperative group and philosophy for children techniques.

**Credit Points:** 4      **Contact Hours:** 2 per week

### ■ **MDB104 SCIENCE MODELS & TOYS**

Toys children play with can be starting points for scientific investigations for young children. Toys provide motivation and are familiar to children. The science is built around experiences and ideas encountered from toy boats, motors (elastic, clockwork and steam), balls, cameras (from which notions concerning safety and timing can be developed), trains and cars (which can introduce ideas such as gears and looping the loop) and flying models (paper aeroplanes and gliders).

**Credit Points:** 4      **Contact Hours:** 2 per week

### ■ **MDB105 WRITING & COMPUTERS**

The use of computers in the writing process by both adults and young children. Appropriate word processing and applications software are used by students. The social, economic and educational implications of the technology are addressed.

**Credit Points:** 8      **Contact Hours:** 3 per week

### ■ **MDB106 PROBLEM-SOLVING WITH COMPUTER GRAPHICS**

Design principles appropriate to generating graphic images; the use of computer graphics packages; programming in a computer graphics language; dynamic computer graphics and animation; educational applications for young children.

**Contact Hours:** 8      **Contact Hours:** 2 per week

### ■ **MDB220 MATHEMATICS FOUNDATION**

The process of mathematics and the role of mathematics in society; mathematical competencies in a technological world; logic and sets and the various forms of mathematical thinking; basic mathematical structures and properties and how these can be seen within mathematics syllabuses; the dynamic nature of mathematics.

**Credit Points:** 8      **Contact Hours:** 3 per week

### ■ **MDB221 SCIENCE FOUNDATIONS**

The development of understanding the concepts of science. Presenting a positive view of science through the examination of: the nature of science; the historical development of major concepts of science; development of scientific language; relationship of science to society. Links between the view of society and the ideas and knowledge which have been generated and applied to the solution of problems.

**Credit Points:** 8      **Contact Hours:** 3 per week

### ■ **MDB222 MATHEMATICS EDUCATION 1**

Extension from MA3040 of the importance of considering the structure of mathematics to the planning of curricula appropriate for young children. Key concepts and skills that form the structure of mathematics. Links to teaching methods that connect mathematics in real world situations to concrete and symbolic representatives of discipline. The role of language. Importance of selecting and teaching mathematics in a technological age.

**Prerequisite:** MDB220  
**Credit Points:** 8      **Contact Hours:** 3 per week

### ■ **MDB228 SCIENCE EDUCATION**

The role of particular psychological, developmental and sociological approaches which play a significant role in science curriculum and development. The development of an understanding of the particular process skills and manipulative skills associated with science. Comparison of existing approaches to teaching science. Science development associated with mathematics and language development. Resources for science education. Development and implementation of units of work.

**Prerequisite:** MDB221

**Credit Points:** 8      **Contact Hours:** 3 per week

### ■ **MDB231 MATHEMATICS EDUCATION 2**

Greater insight into children's acquisition of mathematical competence with particular emphasis on the role of higher-order thinking skills in the learning process. Emphasis on the development of important mathematical skills such as decision making and problem solving, critical analysis and reflection, and logical reasoning. Examination of curriculum topics from both a content perspective and a processing perspective. The topics to be addressed include the skills of problem solving, statistical analysis, elementary probability, measurement concepts and processes, visual imagery and spatial problem solving.

**Prerequisite:** MDB222

**Credit Points:** 12      **Contact Hours:** 4 per week

### ■ **MDB260 STRUCTURE IN MATHEMATICS**

The nature of mathematics: the presentation of mathematics as a logical and visual process of patterning and generalising; application of this knowledge to number and space to develop content sequences and taxonomies. Mathematical pattern and structure: introduction to patterns from number theory and concepts and principles from algebra, geometry and calculus. Study of the common errors in children's mathematical performance and application of knowledge to infer the causes of these errors.

**Prerequisite:** MDB220

**Credit Points:** 8      **Contact Hours:** 3 per week

### ■ **MDB261 EARTH & SPACE**

Time and motion: observations of the notion of the earth; motions of objects through the sky and interrelatedness of time. Earth and its environment: theories of the origin of the earth and its liquid and gaseous environment; geological and biological evolution of the earth incorporating real world practical problems. Frontiers of space: spectroscopy, optical and radio astronomical techniques at a basic level.

**Credit Points:** 8      **Contact Hours:** 3 per week

### ■ **MDB262 HISTORY OF MATHEMATICS**

Philosophy and history of mathematical thinking: the role of thinking in mathematics and vice versa, the history of the thinking movement, and approaches to developing mathematical thinking skills. History of basic mathematical topics: numeration systems, algorithms, algebra, geometry and measurement. Conceptions of mathematics: the role of intuition, logic, real world applications and formality. Applications to teaching.

**Prerequisite:** MDB260

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ **MDB263 APPLICATIONS IN MATHEMATICS**

Modelling and mathematical applications: the role of modelling in applying mathematics to real world problems. Mathematical applications: discrete math-

ematics, statistical and computer applications, game and queuing theory. Modelling in mathematics instruction: how to use the above to extend and enrich teaching.

**Prerequisite:** MDB262

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ **MDB270 COMPUTER EDUCATION**

The exploration of the uses of computer-based technology. Consideration of educational issues such as: curriculum planning and implementation considerations; criteria for the evaluation of computer hardware and software; and policies for computer use in schools.

**Credit Points:** 8      **Contact Hours:** 3 per week

#### ■ **MDB350 BIOLOGY CURRICULUM & TEACHING STUDIES 1**

Builds on CUB301 to give a greater understanding of the nature of biology as an applied curriculum area. Provides insights into relevant Queensland syllabus and curriculum documents, develops competencies in planning and teaching and makes close links with teaching practice.

**Prerequisites:** CUB301 and at least 48 credit points in each relevant discipline area.

**Credit Points:** 8      **Contact Hours:** 3 per week

#### ■ **MDB351 BIOLOGY CURRICULUM & TEACHING STUDIES 2**

Studied in association with CUB302. Provides opportunities for consideration and practical application of broad curricular and teaching principles and systems policies within the more specific context of this curriculum area. As with CUB302, establishes principles which are used to guide school experience during teaching practice and also as a beginning teacher.

**Prerequisite:** MDB350

**Co-requisites:** CUB302, EDB302

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ **MDB352 BIOLOGY CURRICULUM & TEACHING STUDIES 3**

Last in the Curriculum and Teaching Studies series with a major focus on contemporary issues and emerging trends pertaining to curriculum development in this curriculum area. Includes the study of advanced planning and teaching strategies and provides opportunities for application of planning and teaching skills during practice teaching.

**Prerequisites:** MDB350, MDB351, CUB302

**Credit Points:** 8      **Contact Hours:** 3 per week

#### ■ **MDB353 CHEMISTRY CURRICULUM & TEACHING STUDIES 1**

Builds on CUB301 to give a greater understanding of the nature of chemistry as an applied curriculum area. Provides insights into relevant Queensland syllabus and curriculum documents, develops competencies in planning and teaching and makes close links with teaching practice.

**Prerequisites:** CUB301 and at least 48 credit points in each relevant discipline area.

**Credit Points:** 8      **Contact Hours:** 3 per week

#### ■ **MDB354 CHEMISTRY CURRICULUM & TEACHING STUDIES 2**

Studied in association with CUB302. Provides opportunities for consideration and practical application of broad curricular and teaching principles and systems policies within the more specific context of this curriculum area. As with CUB302, establishes principles

which are used to guide school experience during teaching practice and also as a beginning teacher.

**Prerequisite:** MDB353

**Co-requisites:** CUB302, EDB302

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ **MDB355 CHEMISTRY CURRICULUM & TEACHING STUDIES 3**

Last in the Curriculum and Teaching Studies series with a major focus on contemporary issues and emerging trends pertaining to curriculum development in this curriculum area. Includes the study of advanced planning and teaching strategies and provides opportunities for application of planning and teaching skills during practice teaching.

**Prerequisites:** SBB353, SBB354, CUB302

**Credit Points:** 8      **Contact Hours:** 3 per week

#### ■ **MDB356 COMPUTING CURRICULUM & TEACHING STUDIES 1**

Builds on CUB301 to give a greater understanding of the nature of computing as an applied curriculum area. Provides insights into relevant Queensland syllabus and curriculum documents, develops competencies in planning and teaching and makes close links with teaching practice.

**Prerequisites:** CUB301 and at least 48 credit points in each relevant discipline area.

**Credit Points:** 8      **Contact Hours:** 3 per week

#### ■ **MDB357 COMPUTING CURRICULUM & TEACHING STUDIES 2**

Studied in association with CUB302. Provides opportunities for consideration and practical application of broad curricular and teaching principles and systems policies within the more specific context of this curriculum area. As with CUB302, establishes principles which are used to guide school experience during teaching practice and also as a beginning teacher.

**Prerequisite:** MDB356

**Co-requisites:** CUB302, EDB302

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ **MDB358 COMPUTING CURRICULUM & TEACHING STUDIES 3**

Last in the Curriculum and Teaching Studies series with a major focus on contemporary issues and emerging trends pertaining to curriculum development in this curriculum area. Includes the study of advanced planning and teaching strategies and provides opportunities for application of planning and teaching skills during practice teaching.

**Prerequisites:** MDB356, MDB357, CUB302

**Credit Points:** 8      **Contact Hours:** 3 per week

#### ■ **MDB359 EARTH SCIENCE CURRICULUM & TEACHING STUDIES 1**

Builds on CUB301 to give a greater understanding of the nature of earth science as an applied curriculum area. Provides insights into relevant Queensland syllabus and curriculum documents, develops competencies in planning and teaching and makes close links with teaching practice.

**Prerequisites:** CUB301 and at least 48 credit points in each relevant discipline area.

**Credit Points:** 8      **Contact Hours:** 3 per week

#### ■ **MDB360 EARTH SCIENCE CURRICULUM & TEACHING STUDIES 2**

Studied in association with CUB302. Provides opportunities for consideration and practical application of broad curricular and teaching principles and systems policies within the more specific context of this curriculum area. As with CUB302, establishes principles

which are used to guide school experience during teaching practice and also as a beginning teacher.

**Prerequisite:** MDB359

**Co-requisites:** CUB302, EDB302

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ MDB361 EARTH SCIENCE CURRICULUM & TEACHING STUDIES 3**

Last in the Curriculum and Teaching Studies series with a major focus on contemporary issues and emerging trends pertaining to curriculum development in this curriculum area. Includes study of advanced planning and teaching strategies and provides opportunities for application of planning and teaching skills during practice teaching.

**Prerequisites:** MDB359, MDB360, CUB302

**Credit Points:** 8      **Contact Hours:** 3 per week

**■ MDB362 MATHEMATICS CURRICULUM & TEACHING STUDIES 1**

Builds on CUB301 to give a greater understanding of the nature of mathematics as an applied curriculum area. Provides insights into relevant Queensland syllabus and curriculum documents, develops competencies in planning and teaching and makes close links with teaching practice.

**Prerequisites:** CUB301 and at least 48 credit points in each relevant discipline area.

**Credit Points:** 8      **Contact Hours:** 3 per week

**■ MDB363 MATHEMATICS CURRICULUM & TEACHING STUDIES 2**

Studied in association with CUB302. Provides opportunities for consideration and practical application of broad curricular and teaching principles and systems policies within the more specific context of this curriculum area. As with CUB302, establishes principles which are used to guide school experience during teaching practice and also as a beginning teacher.

**Prerequisite:** MDB362

**Co-requisites:** CUB302, EDB302

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ MDB364 MATHEMATICS CURRICULUM & TEACHING STUDIES 3**

Last in the Curriculum and Teaching Studies series with a major focus on contemporary issues and emerging trends pertaining to curriculum development in this curriculum area. Includes the study of advanced planning and teaching strategies and provides opportunities for application of planning and teaching skills during practice teaching.

**Prerequisites:** MDB362, MDB363, CUB302

**Credit Points:** 8      **Contact Hours:** 3 per week

**■ MDB365 PHYSICS CURRICULUM & TEACHING STUDIES 1**

Builds on CUB301 to give a greater understanding of the nature of physics as an applied curriculum area. Provides insights into relevant Queensland syllabus and curriculum documents, develops competencies in planning and teaching and makes close links with teaching practice.

**Prerequisites:** CUB301 and at least 48 credit points in each relevant discipline area.

**Credit Points:** 8      **Contact Hours:** 3 per week

**■ MDB366 PHYSICS CURRICULUM & TEACHING STUDIES 2**

Studied in association with CUB302. Provides opportunities for consideration and practical application of broad curricular and teaching principles and systems policies within the more specific context of this curriculum area. As with CUB302, establishes principles

which are used to guide school experience during teaching practice and also as a beginning teacher.

**Prerequisite:** MDB365

**Co-requisites:** CUB302, EDB302

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ MDB367 PHYSICS CURRICULUM & TEACHING STUDIES 3**

Last in the Curriculum and Teaching Studies series with a major focus on contemporary issues and emerging trends pertaining to curriculum development in this curriculum area. Includes study of advanced planning and teaching strategies and provides opportunities for application of planning and teaching skills during practice teaching.

**Prerequisites:** MDB365, MDB366, CUB302

**Credit Points:** 8      **Contact Hours:** 3 per week

**■ MDB368 SCIENCE CURRICULUM & TEACHING STUDIES 1**

Builds on CUB301 to give a greater understanding of the nature of science as an applied curriculum area. Provides insights into relevant Queensland syllabus and curriculum documents, develops competencies in planning and teaching and makes close links with teaching practice.

**Prerequisites:** CUB301 and at least 48 credit points in each relevant discipline area.

**Credit Points:** 8      **Contact Hours:** 3 per week

**■ MDB369 SCIENCE CURRICULUM & TEACHING STUDIES 2**

Studied in association with CUB302. Provides opportunities for consideration and practical application of broad curricular and teaching principles and systems policies within the more specific context of this curriculum area. As with CUB302, establishes principles which are used to guide school experience during teaching practice and also as a beginning teacher.

**Prerequisite:** MDB368

**Co-requisites:** CUB302, EDB302

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ MDB370 SCIENCE CURRICULUM & TEACHING STUDIES 3**

Last in the Curriculum and Teaching Studies series with a major focus on contemporary issues and emerging trends pertaining to curriculum development in this curriculum area. Includes the study of advanced planning and teaching strategies and provides opportunities for application of planning and teaching skills during practice teaching.

**Prerequisites:** MDB368, MDB369, CUB302

**Credit Points:** 8      **Contact Hours:** 3 per week

**■ MDB377 PROJECT PLANNING & IMPLEMENTATION**

Planning, implementation and management of projects involving the use of computers.

**Prerequisites:** CSB864, ISB865, CSB866

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ MDB410 COMPUTERS IN THE SCHOOL CURRICULUM**

The introduction of computers into the school environment and curriculum; methods for teaching computer studies; the use of computers for classroom management and support; computer technology and its impact on schools and society. Access to an appropriate microcomputer is required.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ MDB411 EARLY CHILDHOOD MATHEMATICS CURRICULUM

Theoretical background and research; logical sequence of mathematics and children's cognitive development; mathematics content and learning experiences for early childhood; integration and application.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ MDB412 PRIMARY MATHEMATICS CURRICULUM

The influential factors on the development and content of mathematics education; how students learn and apply mathematics; identification of effective curriculum models and teaching strategies for mathematics.

**Prerequisite:** CUB410 (or equivalent)

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ MDB413 SECONDARY MATHEMATICS CURRICULUM

Current syllabus developments, teaching strategies and curriculum models for secondary mathematics; planning and evaluating sequences of learning activities for secondary school mathematics; designing and evaluating a variety of forms of assessment.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ MDB415 PRIMARY SCIENCE CURRICULUM

The nature and importance of science in primary schools; theoretical principles of science curriculum development; elements of program planning and evaluation, development of practical teaching sequences of classroom activities.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ MDB416 SECONDARY SCIENCE CURRICULUM

Review of directions for secondary science education; evaluation of present curricula and resources; review of how students learn science; learning difficulties; approaches to assessment.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ MDB430 TEACHING MATHEMATICS PROBLEM SOLVING

Definition and importance of problem solving; problem solving strategies; measures of problem solving performance; methods of teaching problem solving.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ MDB440 COMPUTERS & EDUCATION

An overview of microcomputer hardware and software with an emphasis on the usefulness of various components in schools; use of educationally valuable application software; critical examination of a variety of uses of computers in education; the impact of computers on society and education in particular.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ MDB441 EXPLORATIONS USING LOGO

Learning to program in Logo; creating and solving problems using Logo; exploring curriculum applications with Logo; general problem solving skills.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ MDB490 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 mathematics.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ MDN601 CURRICULUM STUDIES IN MATHEMATICS, SCIENCE & COMPUTER EDUCATION

Curriculum theory: intended, developed and enacted curriculum; curriculum design: models for curriculum design; impact on information technology; curriculum implementation: vocational models; discipline models, individualised models, school-based models, innovations; curriculum evaluation; historical factors affecting the curriculum in mathematics, science and technology education.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ MDN602 FOCUS ON THE MATHEMATICS, SCIENCE & COMPUTER EDUCATION CLASSROOM

The role of the teacher: metaphors, perceptions, curriculum change, the effective teacher; classroom climate: cooperative versus competitive learning, student/teacher interactions; psychological and learning theories and their application to teaching of mathematics, science and technology education.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ MDN603 CURRICULUM SPECIALISATION IN MATHEMATICS, SCIENCE & COMPUTER EDUCATION

Special topics in mathematics, science and computer curriculum; curriculum at specific year level; special needs of students; past and future trends in curriculum design and implementation. Content varies depending on the needs of the students in the subject.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ MDN604 DIAGNOSIS & ASSESSMENT IN MATHEMATICS

Techniques for diagnosis and remediating difficulties in mathematics; assessment models and their inter-relationship with instruction; designing assessment instruments; modern developments in classroom evaluation; practical work with clients.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ MDN605 RESOURCES & TECHNOLOGY IN MATHEMATICS & SCIENCE EDUCATION

Computers in mathematics and science education: software for high order thinking; using computers to reorganise mental functioning; other resources and technologies: print materials, community resources; social, cultural and educational issues in using technology.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ MDN606 POLICY STUDY IN MATHEMATICS & SCIENCE EDUCATION

Major documents affecting mathematics and science education in schools; comparative studies of curriculum in different countries; rationale for policy statements; contextual factors affecting policy formulation; school versus system policies.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ MDN607 ISSUES IN SCIENCE EDUCATION

Equity consideration; science learning and concept development; practical and laboratory skills; science and technology in society; communication in science. Content of subject may vary according to the interest of the students.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ MDN608 COMPUTER SUPPORTED LEARNING ENVIRONMENTS

Interactive models: media, expressive, constructive, and reflective; human-machine interaction: modelling the knowledge of computer users; physical environments: networking, access, personal and portable computers; links with surrounding cultures and experimental approaches and innovations.

Credit Points: 12 Contact Hours: 3 per week

#### ■ MDN609 EMERGING EDUCATIONAL TECHNOLOGIES

Educational applications of artificial intelligence: tutoring systems, robotic systems and expert systems; applications of multimedia systems; powerful graphic systems; cognitive modelling; development and evaluation of educational materials using technologies.

Credit Points: 12 Contact Hours: 3 per week

#### ■ MDN610 THE COMPUTER AS INSTRUCTIONAL MEDIUM

History of technology in education and training: teaching machines, audiovisual devices, instructional television; issues in the use of technology in education: impact of the information revolution, costs, social effects, equity; presentation of educational materials: authoring systems, interactive video; evaluation of instructional materials.

Credit Points: 12 Contact Hours: 3 per week

#### ■ MDP420 COMPUTER EDUCATION CURRICULUM & TEACHING STUDIES A

The broad issues of computer curricula; the place of computing across the curriculum; the more specific computing subjects in the senior school; managing computing within an educational environment.

Prerequisite: Appropriate discipline studies in the undergraduate degree.

Co-requisite: EDP450

Credit Points: 24 Contact Hours: 6 per week

#### ■ MDP421 COMPUTER EDUCATION CURRICULUM & TEACHING STUDIES B

Provides a theoretical context and considers practical applications in assessment, curriculum planning and teaching and learning strategies and examines the roles of the teacher in the community and the profession.

Prerequisite: MDP420 Co-requisite: EDP451

Credit Points: 12 Contact Hours: 3 per week

#### ■ MDP430 MATHEMATICS CURRICULUM & TEACHING STUDIES A

The mathematics curriculum area is covered with a study of the place of mathematics in society and its relation to mathematics taught in schools. This subject considers the Mathematics syllabus in P-10 and in the senior school.

Prerequisite: Appropriate discipline studies in the undergraduate degree.

Co-requisite: EDP450

Credit Points: 24 Contact Hours: 6 per week

#### ■ MDP431 MATHEMATICS CURRICULUM & TEACHING STUDIES B

Provides a theoretical context and considers practical applications in assessment, curriculum planning and teaching and learning strategies and examines the roles of the teacher in the community and the profession.

Prerequisite: MDP430 Co-requisite: EDP451

Credit Points: 12 Contact Hours: 3 per week

#### ■ MDP432 JUNIOR MATHEMATICS CURRICULUM & TEACHING STUDIES C

This Curriculum C subject offers studies which enable appropriately qualified students to teach junior mathematics at lower levels of the secondary school. It applies the of principles, skills and understandings developed in the Curriculum A subject and which are expanded in the Curriculum B subject.

Credit Points: 12 Contact Hours: 3 per week

#### ■ MDP440 SCIENCE CURRICULUM & TEACHING STUDIES A

An introduction to a study of the issues and practice in Science curriculum through a model for science education which emphasises differing purposes and contexts. Topics include integrated science curricula; the P-10 science curriculum framework and syllabus; the senior schooling curriculum framework and multi-strand science at upper secondary level. Aspects specific to science curriculum such as laboratory safety and laboratory skill development are also studied.

Prerequisite: Appropriate discipline studies in the undergraduate degree.

Co-requisite: EDP450

Credit Points: 24 Contact Hours: 6 per week

#### ■ MDP441 SCIENCE CURRICULUM & TEACHING STUDIES B

Provides a theoretical context and considers practical applications in assessment, curriculum planning and teaching and learning strategies and examines the roles of the teacher in the community and the profession.

Prerequisite: MDP440 or MDP449

Co-requisite: EDP451

Credit Points: 12 Contact Hours: 3 per week

#### ■ MDP442 AGRICULTURE CURRICULUM & TEACHING STUDIES B

Provides a theoretical context and considers practical applications in assessment, curriculum planning and teaching and learning strategies and examines the roles of the teacher in the community and the profession.

Prerequisite: MDP440 or MDP449

Co-requisite: EDP451

Credit Points: 12 Contact Hours: 3 per week

#### ■ MDP443 BIOLOGY CURRICULUM & TEACHING STUDIES B

Provides a theoretical context and considers practical applications in assessment, curriculum planning and teaching and learning strategies and examines the roles of the teacher in the community and the profession.

Prerequisite: MDP440 or MDP449

Co-requisite: EDP451

Credit Points: 12 Contact Hours: 3 per week

#### ■ MDP444 CHEMISTRY CURRICULUM & TEACHING STUDIES B

Provides a theoretical context and considers practical applications in assessment, curriculum planning and teaching and learning strategies and examines the roles of the teacher in the community and the profession.

Prerequisite: MDP440 or MDP449

Co-requisite: EDP451

Credit Points: 12 Contact Hours: 3 per week

**■ MDP445 EARTH SCIENCE CURRICULUM & TEACHING STUDIES B**

Provides a theoretical context and considers practical applications in assessment, curriculum planning and teaching and learning strategies and examines the roles of the teacher in the community and the profession.

**Prerequisite:** MDP440 or MDP449

**Co-requisite:** EDP451

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ MDP446 MARINE STUDIES CURRICULUM & TEACHING STUDIES B**

Provides a theoretical context and considers practical applications in assessment, curriculum planning and teaching and learning strategies and examines the roles of the teacher in the community and the profession.

**Prerequisite:** MDP440 or MDP449

**Co-requisite:** EDP451

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ MDP447 PHYSICS CURRICULUM & TEACHING STUDIES B**

Provides a theoretical context and considers practical applications in assessment, curriculum planning and teaching and learning strategies and examines the roles of the teacher in the community and the profession.

**Prerequisite:** MDP440 or MDP449

**Co-requisite:** EDP451

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ MDP448 JUNIOR SCIENCE CURRICULUM & TEACHING STUDIES C**

This Curriculum C subject offers studies which enable appropriately qualified students to teach junior Science at lower levels of the secondary school. It allows the application of principles, skills and understandings which have been developed in the Curriculum A subject and which are expanded in the Curriculum B subject.

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ MDP450 MATHEMATICS, SCIENCE & TECHNOLOGY 1**

The contexts of learning and processes by which effective mathematics/science learning takes place; the nature of mathematics/science and the rationale for mathematics/science education; theoretical constructs of curriculum development; approaches to teaching; key concepts and processes; technology in mathematics/science teaching.

**Credit Points:** 12      **Contact Hours:** 4 per week

**■ MDP451 MATHEMATICS, SCIENCE & TECHNOLOGY 2**

Application of key concepts and processes in mathematics/science; concepts and processes studied in Semester 1 transferred to other mathematics/science topics; development of teaching episodes incorporating the concepts and processes. Assessment and evaluation; difference between assessment and evaluation; nature and types of assessment/evaluation. Child study: student selects child and mathematics/science topic to assess; develop instruments for assessment; analyse child's performance; develop individual program to cater for child's individual mathematical/scientific needs.

**Prerequisite:** MDP450

**Credit Points:** 12      **Contact Hours:** 4 per week

**■ MDP501 COMPUTER SYSTEMS**

Algorithms; principals of structured programming; programming languages; hardware and operating systems.

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ MDP502 COMPUTERS IN EDUCATION**

Range of possible uses of computers in education; impact of information technology on learning, curriculum development and teaching strategy; the computer as an administrative tool in education; social implications of the use of computers.

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ MDP503 INFORMATION SYSTEMS & EDUCATION**

Information storage; types and models of information systems; knowledge representation; databases and database languages, social impact of information systems.

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ MDP504 COMPUTERS & SCHOOL ADMINISTRATION**

Application of computers to educational administration; student information; databases, spreadsheets, textprocessing and graphics packages; timetabling and resource utilisation; financial accounting; office automation.

**Prerequisites:** MDP502, MDP503

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ MDP505 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:** MDP501

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ MDP506 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:** MDP501, MDP502, MDP503

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ MDP507 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:** MDP501, MDP502

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ MDP508 COMPUTER 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:** MDP502

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ MDP509 MODELLING INFORMATION SYSTEMS**

Knowledge representation; very high-level problem description and database languages; development of information processing systems.

**Prerequisite:** MDP503

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ MDP511 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 the hand-held calculator and 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

#### ■ MDP515 MATHEMATICS CURRICULUM SPECIALISATION

Influential factors on the development and content of mathematics education; how students learn and apply mathematics; identification of effective curriculum models and teaching strategies for mathematics; classroom applications.

**Prerequisite:** CUP502

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ MDP516 DIAGNOSIS & EVALUATION IN MATHEMATICS EDUCATION

Learning difficulties in mathematics; action-research approach to problem solving and diagnosis; organising mathematics learning; utility of mathematics in real-life situations; formal and informal techniques for diagnosing mathematics difficulties; identifying and remediating specific learning errors.

**Prerequisite and/or Co-requisite:** MDP515

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ MDP517 FOUNDATIONS OF MATHEMATICS IN EDUCATION

The nature of mathematics and mathematical reasoning; topics in number theory; number patterns; group, field and equivalent relation properties; the nature of modelling; vectors; matrices, statistics, game and queuing theory; use of these topics to develop effective instruction; transformational approach to mathematics and its teaching.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ MDP518 HISTORICAL TOPICS FOR MATHEMATICS EDUCATION

History of mathematical topics: counting, number systems, computation, measures, algebra, logic and geometry; the effect of the renaissance; origins and development of calculus; applications in the school classroom.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ MDP519 MATHEMATICS, SCIENCE, TECHNOLOGY & SOCIETY

The rise of western mathematics and science, philosophical, historical and social background to the relationship between mathematics, science, technology and society; the relationship between the nature of technologies and the nature of society, the role of mathematics and science in technology.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ MDP520 THINKING & LEARNING IN MATHEMATICS & SCIENCE

Concepts of thinking, learning and intelligence; modern theories on mathematical and scientific thinking; methods to promote thinking; designing effective mathematics and science learning experiences to foster thinking.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ MDP525 SCIENCE CURRICULUM SPECIALISATION

The nature and importance of science in schools; theoretical principles of science curriculum development; future directions for science education; elements of program planning and evaluation; development of practical teaching sequences of classroom activities; learning difficulties; approaches to assessment.

**Prerequisite:** CUP502

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ MDP526 RESOURCING SCIENCE EDUCATION

The role of equipment in science; the role of computers and audiovisual equipment; the use of community resources such as museums; field trips; the role of print materials; the development of school programs to utilise resources.

**Prerequisite:** MDP525

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ MDP527 SCIENCE CONCEPT DEVELOPMENT & LEARNING

Diversity and unity in the biological and chemical world and the need for classification and organisation; biological and geological change; matter and links to these worlds; role of energy and how it changes; interrelationship and interdependence of the world; techniques for teaching these concepts.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ MDP528 PERCEPTUAL & EXPERIMENTAL SKILLS IN SCIENCE EDUCATION

Sensation and perception and the science of light and sound and chemical stimuli; laboratory instrumentation in school; conducting experiments in the classroom; data collection, recording, communication and analysis; photography, art, graphing and other visual representations of data.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ MEB010 DYNAMICS 1

Modelling methods and analysis; motion of relevant machines and mechanisms; fluids, transmissions and methods of measurements.

**Credit Points:** 4      **Contact Hours:** 2 per week

#### ■ MEB012 DYNAMICS 2

Application of modelling techniques on machines and mechanisms; unbalanced forces in rotating bodies and gyroscopic effects; vibration; interaction of fluids and methods of measurement.

**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 1

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:** 12      **Contact Hours:** 4 per week



## ■ MEB101 DESIGN 1

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 1

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:** 1.5 per week

## ■ MEB171 INTRODUCTION TO MANUFACTURING

The role of manufacturing in the Australian economy; modern concepts in manufacturing systems design; the interrelationship between design, materials selection, manufacturing processes, marketing and information processing of products; choice of manufacturing technologies in relation to product quality and quantity.

**Credit Points:** 2 **Contact Hours:** 1 per week

## ■ MEB173 MANUFACTURING PRACTICE

The role of manufacturing in the Australian economy; modern concepts in manufacturing systems design; the interrelationship between design, materials selection, manufacturing processes, marketing and information processing of products; 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 1

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 completed by both student and the employer.

**Contact Hours:** 5 weeks

## ■ MEB230 MATERIALS 2

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 3

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; application to static and dynamic forces such as fatigue and stress corrosion cracking.

**Prerequisite:** MEB133

**Credit Points:** 6 **Contact Hours:** 3 per week

## ■ MEB250 THERMODYNAMICS 1

Basics of engineering thermodynamics; reversibility; first and second laws of thermodynamics; applications to heat engines; compressors; engine testing; particular emphasis given to single phase systems; field visit.

**Credit Points:** 6 **Contact Hours:** 3 per week

## ■ MEB251 THERMODYNAMICS 2

Steam plant; impulse and reaction turbines; gas turbines; refrigeration; field visit.

**Prerequisite:** MEB250

**Credit Points:** 6 **Contact Hours:** 3 per week

## ■ MEB270 INDUSTRIAL EXPERIENCE 1

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 completed by both the student and the employer.

**Contact Hours:** 5 weeks

## ■ MEB300 INDUSTRIAL EXPERIENCE 2

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 completed by both the student and the employer.

**Contact Hours:** 5 weeks

## ■ MEB313 MECHANICS 1

Kinematic and dynamic analysis of linkages and mechanisms; linkage synthesis applied to spatial mechanisms and robotics; the design and synthesis of cams; kinematic analysis of gears.

**Prerequisites:** MEB111, CEB184, CEB185

**Credit Points:** 6 **Contact Hours:** 3 per week

## ■ MATERIALS & MANUFACTURING PROJECT

The project exposes the student to self-regulated but supervised research on a specified 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 1

Fluid mechanics; forces in a fluid at rest and its action on submerged 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

### ■ MEB362 THERMO-FLUIDS

Fluid properties; forces on fluids at rest; definition and applications of the continuity equation, the momentum equation and the energy equation; isentropic compressible flow including boundary layer effects; first and second laws of thermodynamics.

**Credit Points:** 7 **Contact Hours:** 3 per week

### ■ MEB370 MANUFACTURING SYSTEMS 1

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 2

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 3

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 completed by both the student and the employer.

**Contact Hours:** 5 weeks

### ■ MEB408 PROJECT A (MECHANICAL)

Investigate 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 **Contact Hours:** 6 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

### ■ MEB454 AERODYNAMICS 1

Incompressible airflow around bluff bodies and aerofoils and in a tube of varying cross-sections; stalling of aerofoils; variations with angle of attack of lift, pressure, pitching moment and drag coefficients; the influence of Reynold's Number including the effect of boundary layers, turbulent and laminar; high lift devices and fuselage effect; planform effects; aircraft layouts such as canards and delta wings.

**Prerequisite:** MEB362

**Credit Points:** 6 **Contact Hours:** 3 per week

### ■ MEB462 FLUIDS 2

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 3

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 2

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 completed by both the student and the employer.

**Contact Hours:** 5 weeks

### ■ MEB471 MANUFACTURING ENGINEERING 1

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 2

Fundamentals and applications of plasticity theory in the deformation of metals and plastics; concepts and applications of non-traditional machining and forming processes; introduction to automation and advanced manufacturing techniques.

**Prerequisite:** MEB370

**Credit Points:** 6 **Contact Hours:** 3 per week

### ■ MEB483 DESIGN 3

Design of mechanisms; welded structures; flexible components; journal bearings; computer aided design.

**Prerequisites:** MEB133, MEB111, MEB381, CEB102, CSB191

**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 the University 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 **Contact Hours:** 3 per week

### ■ MEB500 SPECIAL TOPIC 1

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 need to have achieved an appropriate level of preparation in the topic area concerned.

**Co-requisites:** 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; 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; strain-displacement relations; stress and strain transformation; 2 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

### ■ MEB551 PROPULSION & ENGINES

Piston engines; super chargers and carburettors; actuator disc theory of propellers and rotary wing aircraft; gas turbine engines; compressors; turbines; ignition systems; fuel control systems and after-burners; rocket motors; fuels and thrust calculations.

**Prerequisite:** MEB362

**Credit Points:** 5 **Contact Hours:** 3 per week

### ■ MEB553 AERODYNAMICS 2

Transonic and supersonic flows; critical Mach numbers; quasi 1 dimensional stationary current equations, shock waves, compressional and expansional; linear flow around aerofoil sections; convergent divergent nozzles; qualitative study of flow around differing wing areas and shape; climb, cruise, descent, take off and landing calculations.

**Prerequisite:** MEB454

**Credit Points:** 6 **Contact Hours:** 3 per week

### ■ MEB571 MANUFACTURING ENGINEERING 2

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 3

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 completed by both the student and the employer.

**Contact Hours:** 5 weeks

### ■ MEB601 SPECIAL TOPIC 2

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 need to have achieved an appropriate level of preparation in the topic area concerned.

**Co-requisites:** Depend on the syllabus of the particular special topic offered.

**Credit Points:** 7 **Contact Hours:** 3 per week

### ■ MEB610 MECHANICS 2

Introduction to mechanical frames and methods of analysis; investigation of the effects of static and dynamic loading upon frames and frame members.

**Prerequisites:** MEB411, MEB510, MAB493

**Co-requisite:** MEB511

**Credit Points:** 6 **Contact Hours:** 3 per week

### ■ MEB611 STABILITY & CONTROL OF AIRCRAFT

Equations of motion; longitudinal, lateral and directional stick fixed and stick free control and stability; manoeuvring flight; use of aerodynamic coefficients without derivation; control system modelling.

**Prerequisite:** MEB553

**Credit Points:** 5 **Contact Hours:** 3 per week

### ■ MEB640 AUTOMATION 1

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 3

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 1

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 3

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 material

science in design; fracture mechanics; computer aided optimisation techniques.

**Prerequisites:** MEB483, MEB230, MEB231, MEB411

**Credit Points:** 7      **Contact Hours:** 3 per week

#### ■ MEB690 AIRCRAFT SYSTEMS

Design criteria and techniques of hydraulic, pneumatic and electrical circuits to provide the services to operate a modern aircraft, e.g. detailed analysis of undercarriage and flap systems; aircraft fuel systems; pressurisation systems; cockpit instrumentation and associated equipment; fundamental principles and operation of gyroscopes and accelerometers.

**Credit Points:** 6      **Contact Hours:** 3 per week

#### ■ MEB701 SPECIAL TOPIC 3

A series of lectures and tutorials in subject areas of special professional relevance to the student's intended career path, or which may be available on occasions from visiting scholars.

**Prerequisites:** Students need to have achieved an appropriate level of preparation in the topic area concerned.

**Co-requisites:** Depend on the syllabus of the particular special topic offered.

**Credit Points:** 7      **Contact Hours:** 3 per week

#### ■ MEB710 AUTOMATION 2

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

#### ■ MEB740 MAINTENANCE MANAGEMENT & TECHNOLOGY

The economic and environmental importance of maintenance; management of the maintenance function including organisation; data systems; cost control; spares policy; design for reliability; planning of overhauls; the maintenance of buildings; mechanical maintenance and failure analysis; electrical and electronic maintenance.

**Credit Points:** 6      **Contact Hours:** 3 per week

#### ■ MEB771 INDUSTRIAL ENGINEERING 2

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 1

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

#### ■ MEB774 OPERATIONS MANAGEMENT

Method study and work measurements; job design, project planning and control; scheduling; capacity planning; resource planning; inventory control; total quality control.

**Credit Points:** 7      **Contact Hours:** 3 per week

#### ■ MEB790 SPACECRAFT & SATELLITE DESIGN

Analysis techniques of space vehicle control including stabilisation and attitude control; monitoring and control of internal environment; albedo measurements; effects of solar eclipse; heat and radiation projection methods; design of on-board systems including power systems; attitude control; libration dampers; accelerometers and station keeping systems; requirements for satellite and ground-station equipment design and operation.

**Prerequisite:** MEB692

**Credit Points:** 6      **Contact Hours:** 3 per week

#### ■ MEB800 SPECIAL TOPIC 4

A series of lectures and tutorials in subject areas of special professional relevance to the student's intended career path, or which may be available on occasions from visiting scholars.

**Prerequisites:** Students need to have achieved an appropriate level of preparation in the topic area concerned.

**Co-requisites:** 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 measurements; 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 practices. Project may arise through investigation in applied research programs or specific topics from industry.

**Credit Points:** 12      **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 components; performance characteristics of systems.

**Co-requisite:** MEB464

**Credit Points:** 7      **Contact Hours:** 3 per week

# MEB974 DESIGN FOR MANUFACTURING 2

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 flexible manufacturing systems (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 systems 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 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 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 prepara-

tion 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:** 3 per week

# MEP201 SAFETY TECHNOLOGY & PRACTICE 1

Overview of models of the accident phenomenon; technological background 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 effect on failure mode.

**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:** 3 per week

# MEP301 SAFETY TECHNOLOGY & PRACTICE 2

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:** 3 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 en-

engineering associates; computer aided drafting techniques.

**Credit Points:** 7      **Contact Hours:** 3 per week

**■ MET120 ENGINEERING DRAWING 1**

Lettering and linework; principles of third angle projection; orthographic projection; pictorial drawing; assembly drawing; sectional views; CAD.

**Credit Points:** 7      **Contact Hours:** 3 per week

**■ MET121 DRAFTING PRACTICE 1A**

Complements MET120: drawing mechanical engineering components; detailed exercises; CAD.

**Co-requisite:** MET120

**Credit Points:** 3      **Contact Hours:** 3 per week

**■ MET123 ELECTRICAL ENGINEERING DRAWING 1A**

Preparation of block diagrams; logic diagrams; circuit diagrams.

**Co-requisite:** MET101

**Credit Points:** 3      **Contact Hours:** 3 per week

**■ MET140 ENGINEERING MATERIALS 1**

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

**■ 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 1A**

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 (MECHANICAL) 1A**

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 1**

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 2**

Auxiliary views; sectional views; intersections; surface developments; CAD.

**Prerequisite:** MET120

**Credit Points:** 8      **Contact Hours:** 3 per week

**■ MET221 DRAFTING PRACTICE 2A**

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 2A**

Printed circuit board layout; plant layout; transformer construction; single line diagrams; CAD.

**Prerequisites:** MET101, MET123

**Credit Points:** 3      **Contact Hours:** 3 per week

**■ MET250 THERMODYNAMICS**

Basic engineering thermodynamics concepts; systems; reversibility; first and second laws; working fluids; IC engine cycles and simple performance evaluations.

**Credit Points:** 6      **Contact Hours:** 3 per week

**■ MET271 TRADE TRAINING 2A**

Skill training in basic metal machining techniques; practical and applied aspects of turning, milling, shaping and surface grinding.

**Credit Points:** 6      **Contact Hours:** 7 per week

**■ MET310 APPLIED MECHANICS 2**

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 3**

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 AIR CONDITIONING & REFRIGERATION**

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 4**

Specialist drafting techniques; electrical/electronic drafting; hydraulic/pneumatic diagrams; CAD.

**Prerequisites:** MET120, MET220

**Credit Points:** 7      **Contact Hours:** 3 per week

**■ MET421 MECHANICAL PROJECT 1A**

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 2**

Properties and selection of advanced engineering materials.

**Co-requisite:** MET140

**Credit Points:** 8      **Contact Hours:** 3 per week

**■ MET475 WORKSHOP (MECHANICAL) 3A**

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; automated process planning; 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 1**

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 1A**

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 2**

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

**■ MET920 COMPUTER AIDED DESIGN & DRAFTING**

Computer based drafting: 2 dimensional 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; 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 couplings 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

**■ MJB100 MEDIA PRODUCTION**

Focus on the still image and still images in juxtaposition in terms of the technical processes of producing images and the cultural and artistic processes of creating meaning with images; the processes of skills of photography; thematic presentation of images in sequence e.g. slide shows; application of computers and other electronic technologies in media production and presentation including: basic applications, com-

munications, graphics, animation, interactive videodisc, multimedia and computer-based education. Elementary computer skills are developed including the use of Microsoft Works.

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ MJB102 ADVANCED TEXT ANALYSIS**

The nature of printed material, radio, film and television as forms of communication; the general range of media studies approaches: structuralism, psychoanalysis, linguistics, film theory and narrative theory; media production as texts; the factors determining their construction and how they influence their reception by audiences.

**Prerequisite:** Australian Media Institutions, and Literature and Communication, MJB104.

**Credit Points:** 12      **Contact Hours:** 3

**■ MJB103 NEWS PRODUCTION**

What is a media organisation?; media industries and media firms; social responsibilities of media companies; managing deadlines; planning and decision-making in the newsroom; leadership and motivation; news practice: radio, television, newspapers; case studies.

**Prerequisites:** MJB122, MJB138

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ MJB104 MEDIA INDUSTRIES & ISSUES**

An introduction to the study of the mass media, with particular emphasis on Australian media industries: television, radio, the press, advertising, and film and video, from social, historical and industrial perspectives, and current issues facing these industries.

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ MJB105 FILM & SOCIETY**

The Great Depression era, Roosevelt's new deal, and the ways in which 1930s genre films refracted these problems; post-war reconstruction and the re-affirmation of the family unit in 1940s films; the period of the House Committee on un-American activities and associated films; the films of the 1960s and their relation to various radical movements; the treatment of a range of social issues in American films of the 1970s and 1980s.

**Prerequisite:** MJB130

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ MJB106 SCREEN ADAPTION**

The process of adaption of literary texts into feature films. Selective thematic and textual analysis of modern literature and film enables students to appreciate both forms as an expression of society. These analyses are related to the broader questions of representation and rhetoric of fiction in film.

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ MJB107 GENDER & THE MEDIA**

Cultural gender representation of masculinity and femininity in a range of media texts; historical, sociological and economic contexts of gender ideology and cultural discourses such as motherhood, romance, the new woman; violence; women as creators of visual art and media texts; women as audience; gender and popular cultures.

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ MJB108 CREATIVE SOUND & IMAGE**

Creation and manipulation of sound and image in the communication context; fundamentals of sound and sound recording; dynamic range, distortion, bias, equalisation, multitracking and mixing; fundamentals of light and colour; additive and subtractive colour,

film animation, pixilation, computer graphics and computer animation.

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ MJB109 AUSTRALIAN TELEVISION**

Australian cultural identity before television; key myths in Australia – the Anzacs; crime and corruption as part of the Australian way of life; political and social crisis in Australia; the Vietnam experience; the search for an independent national identity; the relationship with Britain, USA and Japan.

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ MJB110 ASIAN & LATIN AMERICAN CINEMA**

A concentrated study of two of the following national cinemas: China, Japan, Brazil and Cuba. Chinese cinema from the perspective of the new cinema which emerged from the film makers Chen Kaige, Wu Tianming, Zhang Yimou and Tian Zhuangzhuang. Japanese cinema in relation to the dominance of a small number of film companies in the 1930s, the impact of World War II, and the output of film makers such as Mizoguchi, Ozu, Kurosawa, Ichikawa, Oshima and Itami. Cuban cinema within the context of the Cuban revolution. Brazilian cinema and the various phases of Cinema Novo, the influence of the Tropicalist movement, parody, the carnivalesque and the function of Embrasil.

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ MJB113 FILM DRAMA PRODUCTION**

Analysis of the process and effects of mediated communication; budgeting and production management; effective presentation methods; innovation and special media events; advanced production techniques. Students are required to work in crews to produce a significant film production.

**Prerequisites:** MJB129, MJB126

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ MJB114 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 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; social and ethical issues; script breakdowns, budgeting and production management.

**Prerequisite:** MJB113

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ MJB115 SUPERVISED PROJECT FILM & TV**

The completion of a significant film or video production. Seminar presentation and discussion of each stage of production throughout the semester with progress reports made each week including the viewing of rushes and cut material.

**Prerequisite:** MJB114 and either MJB134 or MJB113

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ MJB116 FILM LANGUAGE & GENRE**

Extending the structural and semiotic insights from the introductory theory subject, the processes by which films construct reality, and relates these to the



conventions and iconography of film genre; linkages between text, ideology and industry.

**Prerequisite:** COB113

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ MJB117 INTRODUCTION TO AUDIOVISUAL COMMUNICATION

An introduction to the theory and practice of audiovisual communication. Areas covered include planning; definition of operational objectives, analysis of audience characteristics, development of concept, budget, selection of appropriate mediated form; preparation: scriptwriting and storyboarding; basic production techniques; technology; how still and video pictures are seen; how sound is heard, recorded and replayed; how vision is recorded and played back; selection and operation of appropriate equipment; production of a significant slide-tape presentation.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ MJB118 FUNDAMENTALS OF PHOTOGRAPHY

Historical development of the photographic arts, role of the photographer in society, the principle 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

### ■ MJB120 NEWSWRITING

Students 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. The course covers the evolution and theoretical background to reporting techniques in the areas of courts, politics, industrial relations, crime and finance.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ MJB121 REPORTING PRINCIPLES

The philosophical rationale behind the free flow of information and its use studied from practical and theoretical perspectives. The journalist's role in society defined and explored through the use of advanced research techniques involving Freedom of Information, property and company searches and the use of newspaper databases.

**Prerequisite:** MJB120

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ MJB122 SUB-EDITING & LAYOUT

Introduction to the basic copy editing and design principles for newspapers. These skills are incorporated with the latest desktop publishing technology with specific reference to newspapers. Students use wire stories from Australian Associated Press, Reuters, Associated Press and Agence France Presse in news and feature page design exercises.

**Prerequisite:** MJB132 or MJP100

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ MJB124 FEATURE WRITING

Students use the principles of reporting to produce newspaper and magazine articles that profile personalities, or that treat things, processes, events and places to exploit their human-interest news value.

**Prerequisite:** MJB121 or MJP100

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ MJB125 MODERN LITERATURE & FILM IN SOCIETY

An integrated study of contemporary literature and film and how both media provide an insight into topical issues of the day. Various critical approaches to literary and film texts and the concepts of genre, authorship and structure.

**Prerequisite:** COB144

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ MJB126 VIDEO PRODUCTION

Intensive introduction to the theory and practice of communication through video; criteria used in selection of the appropriate mediated form; 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 editing; pictorial composition, lighting, use of colour, camera control; sound and sound recording; use of special effects.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ MJB127 NARRATIVE CONCEPTS

The inter-relationship between improved means: lenses, editing techniques, cameras and sound and how they increase the scope of film makers. Elements of the graphic arts, the novel, dramatic forms and social phenomena in the various national groupings. The subject is designed to assist students in choosing effective narrative styles for short films and especially dramas and dramatised documentaries by providing historical analysis of stylistic and technical developments of narrative film making.

**Prerequisite:** MJB108 or 8 subjects in a degree program.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ MJB129 FILM & TELEVISION SCRIPTWRITING

Writing through analysis of such forms as features, documentaries and drama; indepth 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:** MJB127

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ MJB130 MEDIA TEXT ANALYSIS

The strategies applied in the analysis of texts are drawn from the following areas: new criticism and the traditional legacy; semiotics and structuralism/post-structuralism; marxism and contextual/historical approaches; feminism; psychoanalysis; reader-response approaches. The media texts chosen include films, television programs, newspaper articles and cartoons, photographs and advertisements. Some examples are also drawn from literature.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ MJB131 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 operator, vision mixer, floor manager, technical director, production assistant and on-line editor.

**Prerequisite:** MJB134 or MJB113

**Credit Points:** 12      **Contact Hours:** 3 per week

## ■ MJB132 RADIO/TELEVISION JOURNALISM 1

The practical and theoretical aspects of radio and television media are studied through the examination of interviewing techniques. Students learn radio style and usage and the evaluation of television news bulletins through seminar workshops. Strong emphasis is placed on current affairs knowledge.

**Prerequisites:** MJB126, MJB121

**Credit Points:** 12 **Contact Hours:** 3 per week

## ■ MJB134 VIDEO DOCUMENTARY PRODUCTION

Orientation to the history and development of documentary film and video and of the role 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 practise in workshops throughout the semester using materials provided on tape; production of a documentary or corporate video.

**Prerequisites:** MJB129, MJB126

**Credit Points:** 12 **Contact Hours:** 3 per week

## ■ MJB135 PROFESSIONAL MEDIA PRACTICE

The aim of this elective subject is to provide the student with an opportunity to observe, and gain insight into, the applications of theory to practice. The student is placed with an approved employer. The lecturer in charge of the subject obtains reports from the student at regular intervals. The student is required to complete a progressive assessment program. The student's result is determined on the basis of reports, continuous assessment and the employer's report.

**Prerequisite:** MJB122 or MJB138

**Credit Points:** 12 **Contact Hours:** 3 per week

## ■ MJB137 PUBLIC AFFAIRS REPORTING

The role of the reporter in covering national and international politics, and major political issues is examined in depth. The range of topics covered include: the public's right to know, defamation restrictions, the constitution, federalism, defence, immigration and multiculturalism, health, welfare and education, the environment, science and industrial issues, economics and finance reporting.

**Prerequisite:** MJB124

**Credit Points:** 12 **Contact Hours:** 3 per week

## ■ MJB138 RADIO/TELEVISION JOURNALISM 2

Philosophy and formulation of radio and television current affairs, anchor techniques, radio and television news production using computers.

**Prerequisite:** MJB132

**Credit Points:** 12 **Contact Hours:** 3 per week

## ■ MJB139 JOURNALISTIC ETHICS & ISSUES

Students are challenged on journalistic practices and debate options and choices. The Australian Journalist's Association code of ethics is studied in the context of ethical systems and journalistic practice.

**Credit Points:** 12 **Contact Hours:** 3 per week

## ■ MJB140 THE MEDIA & SOCIETY

A range of theoretical positions on mass media study; the political economy of the media; the role and meaning of advertising; the function of news; audience theory; media representation of different societal groups: gender, race, ethnicity, class, age; public access media; media ownership and control;

the treatment of particular social issues in the media; textual and discourse analysis; popular culture of the media.

**Prerequisite:** MJB130 (or equivalent)

**Credit Points:** 12 **Contact Hours:** 3 per week

## ■ MJB141 FILM LANGUAGE

The processes by which meaning is constructed in film. This is first studied in relation to the question of form in film, and attention is given to how films, both narrative and non-narrative, may be structured. Then, the production of meaning is explored through a detailed examination of mise-en-scène: movement and placement of actors, setting, lighting, and costume, cinematography: including camera-angle, distance, movement, animation, and special effects, editing, and sound.

**Prerequisite:** MJB130

**Credit Points:** 12 **Contact Hours:** 3 per week

## ■ MJB142 FILM & SOCIETY

The Great Depression era, Roosevelt's new deal, and the ways in which 1930s genre films refracted these problems; post-war reconstruction and the reaffirmation of the family unit in 1940s films; the period of the House Committee on un-American activities and associated films; the films of the 1960s and their relation to various radical movements; the treatment of a range of social issues in American films of the 1970s and 1980s.

**Prerequisite:** MJB130

**Credit Points:** 12 **Contact Hours:** 3 per week

## ■ MJB143 AUSTRALIAN FILM

The trend towards period films and the construction of a national identity in the 1970s compared with earlier periods; the representation of women and its relationship with the growth of the women's movement; the depiction of Aborigines in recent films compared with earlier portrayals; images of masculinity; low budget features and independent film makers; images of adolescence in recent films.

**Prerequisite:** MJB130

**Credit Points:** 12 **Contact Hours:** 3 per week

## ■ MJB144 EUROPEAN CINEMA

The cinema of two of the following countries: Italy, Germany, France. Italy: the epic films of the silent period, Fascist films, neo-realism, and the work of Antonioni, Visconti, Rossellini, De Sica, Fellini, Olmi and Bertolucci. Germany: expressionism, Nazi cinema, the influence of the war on film content and production, and the New German cinema, including the work of Herzog, Fassbinder, Wenders, Schöndorf and Kluge. France: film impressionism and the avant-garde movements of the 1920s, poetic realism, the New Wave, and post 1968 cinema.

**Credit Points:** 12 **Contact Hours:** 3 per week

## ■ MJB146 AUSTRALIAN DOCUMENTARY FILM

The newsreel in Australia: Fox Movietone News and Cinesound Review; the role of Film Australia, alternative documentary in the work of the Waterside Workers Film Unit; the impact of television on documentary film making; the Sydney Women's Film Group; radical film makers, Bradbury, Zubrycki and Pilger.

**Credit Points:** 12 **Contact Hours:** 3 per week

## ■ MJB147 FILM GENRES

Genre conventions: the narrative patterns, styles, and iconographies which govern the production and reading of genre films; the evolution of genres in relation

to social change; the relationship with the Hollywood studio system, including economic and ideological constraints; the conventions of specific genres such as the western, the musical, horror and science fiction films, film noir, and the family melodrama. Three genres are selected for special study.

**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ MJB149 FILM HISTORY

The development of the Hollywood classical continuity style; notions of realism and their relation to French poetic realism of the 1930s, neo-realism in post war Italy, and the kitchen-sink films of Britain in the 1960s; modernism; expressionism and film noir; the impact of wide-screen formats; the various 'new waves' of the 1950s and 1960s; and the impact of new technologies and information systems on film.

**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ MJN100 COMMUNICATION & SOCIETY

Contemporary communication and media theory, developing the theoretical introduction offered in MJN101. Subject content proceeds in a detailed survey mode, and includes contemporary political economy of the media, feminist cultural theory, textual and audience studies, media and cultural studies, post-modernism and cross-cultural communication. These studies of contemporary theory find preliminary application in some relevant research areas in the mass media, popular culture and the new media.

**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ MJN101 COMMUNICATION & CULTURE

The applications of critical communication and media theory to a range of research topic areas: the growth of written mass culture/popular literature; the relationship between language and reality formed by language, rather than vice versa; the modern debate about mass culture versus high culture; literary journalism; film, television, and the other mass media. Students are expected to demonstrate advanced competence in the application of media and critical theory to topic areas.

**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ MJN103 AUSTRALIAN COMMUNICATION CONTEXTS

Analysis of specific aspects of the interaction between mass media, its institutions and history, at an advanced level, the histories and contemporary configurations of Australian media industries: telecommunications, television, film, radio, advertising, print. The subject is designed to complement MJN101, with its emphasis on the analysis of media context.

**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ MJN100 JOURNALISTIC WRITING

Learning 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

### ■ MJN101 COMMUNICATION THEORY 2

Builds on media studies theory that students have learned in three subjects with media studies components in the undergraduate degree by teaching an advanced introduction to critical media theory (7 weeks). This also leads into the media studies strand of the masters degree. Applications to film, television, print, radio, and advertising. The second segment of the subject (7 weeks) focuses on behavioural or

process theory. Topics include: the process and effects of mass communication; systems thinking; role of the media in society.

**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ MJN102 COMMUNICATION POLICY ENVIRONMENT

The public policy environment associated with communication practice and processes; current issues; the participating and critical views. A study of the public policy process in selected countries with special emphasis on Australian communication policy. Social, legal, political and technical environments; current and major issues, and the differing approaches to communication policy.

**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ MKB102 ADVANCED MARKETING LOGISTICS

The application of computer based models to distribution systems. Case studies of commodity markets in Australia. Advanced transportation modelling.

**Prerequisite:** MKB108 **Co-requisite:** MKB136

**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ MKB108 MARKET PRACTICES

Quantitative marketing practices in the areas of: inventory control; queuing; LP programming; market simulation; causal regression analysis; market applications.

**Prerequisites:** MKB140, EPB109

**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ MKB112 RESEARCH METHODS

The main traditions and methods in research, including primary and secondary, qualitative and quantitative research.

**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ MKB116 PRINCIPLES OF ADVERTISING

A brief history of advertising; structure of the industry; functions and objectives; campaign planning; budgeting; elementary media planning; creative functions; elementary copywriting; principles of advertising.

**Prerequisite:** MKB140 and Research Methods

**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ MKB117 PR CAMPAIGNS

This is a specialist public relations subject examining strategies to relate an institution or individual to the community through comprehensive public relations programs. These may include fundraising, special events, and corporate sponsorships. The subject is designed to increase intellectual depth of understanding and give students practical experience in problem solving and the implementation of actual community relations programs for various organisations.

**Prerequisites:** MKB120 and MKB133

**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ MKB118 ADVERTISING COPYWRITING

Target audience definition; copywriters and their functions, copy platforms; copy rationales; positioning; creative thought processes; advertising writing theories and styles; layout principles; newspaper copywriting; magazine copywriting; direct mail copywriting; outdoor copywriting; basic print production.

**Prerequisite:** MKB116

**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ MKB120 PR WRITING & EDITING

The function of media other than mass media. Public relations practitioners work in government, institutional and corporate environments which deal with internal and external audiences through a wide range of written materials as well as speechmaking. Writing and editing newsletters are covered through workshops. The role of the editor is emphasised to give an understanding of the importance of communication to achieve corporate objectives. Of equal importance is an understanding of techniques to write, edit and present speeches effectively.

**Prerequisite:** MKB129

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ MKB122 ADVERTISING REGULATION & ETHICS

The various laws, codes and regulations which apply to advertising in Australia; the codes of ethics of the different institutions of advertising; recent and current examples of contentious advertisements; application of the principles and ethical standards covered.

**Prerequisite:** MKB116

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ MKB123 PUBLICATION MANAGEMENT

Examination of the requirements for communicating in print and managing this process. It analyses the steps involved in design and production, focusing on management and liaison skills. The subject offers students desktop publishing skills which are required for assignments, and the scope to produce a real life brochure for a client.

**Prerequisite:** MKB129

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ MKB124 PUBLIC RELATIONS PRINCIPLES

An introduction to the concepts and practice of public relations; the role and functions of public relations, its history, career paths, professional/ethical responsibilities, corporate public relations, public relations consultancies, the process of public relations, concepts of public opinion, persuasion and communication strategies. This subject offers a theoretical foundation for students to equip them to better understand and practise the public relations skills emphasised in later subjects.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ MKB125 MEDIA PLANNING

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:** MKB116

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ MKB126 ADVERTISING MANAGEMENT

Theories of mass communication, psychology, empirical research and market planning in the context of the advertising management function.

**Prerequisite:** MKB118, MKB122 and MKB125 or MKB116 and 4 Marketing Subjects.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ MKB127 ADVANCED ADVERTISING

Expansion and addition of theoretical perspectives and skills gained in the prerequisite. There is heavy emphasis on application of these perspectives to solving

advanced advertising problems and the use of both basic and advanced skills in these solutions.

**Prerequisite:** MKB118 or Media Strategy

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ MKB128 DIRECT RESPONSE ADVERTISING

Principles and practice of direct response advertising in its various forms; ethical considerations against a background of Australian societal norms.

**Prerequisite:** MKB126 or MKB157

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ MKB129 PUBLICITY & PROMOTION – PRINT

This subject focuses on communication with the print media. Students are given the background, techniques and skills needed to work with newspapers, magazines and trade press. Producing and evaluating communication materials such as news releases, features, and media kits form the core of the subject. Guest lecturers join the class to discuss aspects of media relations, writing style and publicity planning.

**Prerequisites:** MKB120, MKB124

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ MKB130 PUBLICITY & PROMOTION – ELECTRONIC

The development of production skills in video as they apply to public relations in organisations. Students 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.

**Prerequisites:** MKB126, MKB129

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ MKB131 ADVERTISING CAMPAIGNS

Students draw together and apply all of the professional knowledge and skills gained throughout their degree studies. Application of this to problems or cases set by lecturers and practitioners. The accent is on development and application.

**Prerequisite:** MKB126

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ MKB132 GOVERNMENT & FINANCIAL RELATIONS

Current standards of social responsibility and public accountability in organisations and society. Through the presentation of case studies in financial and government relations, students develop an understanding of problem definition, the planning and implementing of public relations programs, and the creations of communication strategies designed to solve specific problems.

**Prerequisites:** MKB133, EPB124

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ MKB133 PR CONSULTING & MANAGEMENT

The management of public relations practice including research, budgets, consultancies and people. It is tailored for students who have completed most of the public relations strand and is designed as advanced level preparation for employment in the field. The subject offers input from specialist guest lecturers, who are either experienced practitioners or specialists in a particular area. Students prepare and present a group submission as part of the subject.

**Prerequisites:** MKB123, MKB120

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ MKB136 MARKETING LOGISTICS

Distribution strategies and techniques and the activities that facilitate product flow: distribution and level strategies; inventory costs and control; efficient raw product mix and the application of linear programming; transshipment models; allocation efficiency; customer queuing.

**Prerequisites:** MKB140, EPB109

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ MKB137 COMPUTER APPLICATIONS IN MARKETING

Techniques in market research; univariate and bivariate analysis; nonparametric statistics; ANOVA; the multivariate techniques common to marketing research; dependence methods such as multiple regression, MANOVA, multiple discriminant analysis and conjoint measurement; interdependence methods including factor analysis, cluster analysis and multidimensional scaling.

**Prerequisite:** Business Methodology

**Co-requisite:** MKB151

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ MKB139 MARKETING

Marketing: 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 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:** 12      **Contact Hours:** 3 per week

### ■ MKB140 PRINCIPLES OF MARKETING

The role of marketing and its importance in contemporary organisations. Introduction to marketing decision areas: the marketing concept; understanding consumer behaviour and preferences, marketing research and marketing information systems; market segmentation and planning, strategy and control; 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

### ■ MKB141 MARKETING MANAGEMENT

Contemporary marketing concepts linked to strategic applications; market segmentation, product positioning, product portfolio analysis, marketing strategies in key areas such as product development, promotion, distribution and pricing.

**Prerequisite:** MKB140 or MKN106

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ MKB142 CONSUMER BEHAVIOUR

Internal and external influences on the individual consumer including motivation, perception, learning, attitudes and social class, culture, reference groups, communicating and market segmentation, and the consumer decision process.

**Prerequisite:** MKB140 or MKN106

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ MKB143 EXPORT MANAGEMENT

The role of government including need to export; 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.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ MKB144 SALES MANAGEMENT

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, selling logistics, sales force motivation, sales negotiation. The subject combines theory and practice and uses a case study approach to consolidate the learning process.

**Prerequisite:** MKB140 or Marketing Methods and Practice

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ MKB145 RETAILING MANAGEMENT 1

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 stores siting determinants are given detailed attention along with store layout and design. Elements of merchandising, franchising and promotion are also examined.

**Prerequisites:** MKB140, MKN106

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ MKB146 SERVICES MARKETING

The special characteristics of services and possible strategies to deal with those characteristics; the nature and classification of services; the differences between services and products and their implications for the marketing/customer mix and for marketing strategy; the relationship of the service organisation with its customers; the management of product support services; the concept of productivity for services, including the management of demand and supply; the search for service quality and consistency, including the issue of standardisation versus customisation.

**Prerequisite:** MKB140 or MKN106

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ MKB147 RETAILING MANAGEMENT 2

Development of a strong grounding in those retailing activities that comprise the merchandising function of the different types of retail stores including the distributors of durable consumer goods from the large supermarket or department store to the smallest corner store. Covers those topics associated with the merchandising of retail products: forecasting customer demand, planning, promotions, as well as the managerial control of buying and stocking merchandise.

**Prerequisite:** MKB145

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ MKB148 MARKETING DECISION MAKING

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:** MKB140 or MKN106

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ MKB149 INTERNATIONAL MARKETING

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.

**Prerequisite:** MKB140 or MKN106

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ MKB151 MARKETING RESEARCH

This subject has three main purposes: to emphasise the processes most suitable to marketing research, both qualitative and quantitative; to undertake a marketing research project whereby students determine the most suitable way of gathering information, undertake the research, and finally, present the results; to develop the ability, as marketing managers, to choose, use, and manage market research wisely, whether dealing with a consultancy firm or an internal marketing research department. Areas to be covered in both the theoretical and practical aspects of the subject include: problem formulation; research design and sources of information; design and forms of data collection; analysis and interpretation of data; the marketing research report and presentation.

**Prerequisite:** MKB141

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ MKB152 PROMOTIONAL STRATEGY

The marketing promotional mix and its relationship with the marketing mix, the structure of marketing communications; the environmental framework of promotion practice; the media of marketing communications; the planning and control of marketing communications.

**Prerequisite:** MKB140 or MKN106

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ MKB153 PROFESSIONAL MARKETING PRACTICE

With the approval of the lecturer involved, the students undertake a preferred study program within the marketing framework, eg. some particular area of the marketing mix. This study program requires students to undertake a project or internship with a suitable company, where they actively work on a part-time basis. The program is aligned as closely as possible to the preferred area of study. Students are required to submit a number of reports reflecting the theoretical concepts learned and the application to their job experience.

**Prerequisite:** MKB141

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ MKB154 DISTRIBUTION MANAGEMENT

Physical distribution, warehouse location and management, choice of transportation modes.

**Prerequisite:** EPB109 or Business Statistics

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ MKB155 STRATEGIC MARKETING

The capstone of the marketing course; it reviews the state of the art in marketing strategy and current thoughts and concepts in marketing strategy formulation and focuses on the formulation of marketing strategy, a task undertaken in most companies at the strategic business unit level.

**Prerequisite:** MKB141

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ MKB158 TELEMARKETING

As direct marketing is a growth area it is essential that students understand the fundamentals of effective telemarketing. There is heavy emphasis on practical work in this subject. Students are taught practical skills in how to set up a telemarketing centre and how to conduct a structured telemarketing campaign. Practitioners and field visits provide students with the necessary real world experience.

**Prerequisite:** MKB128

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ MKB159 DIRECT MARKETING CAMPAIGNS

Students examine and analyse contemporary direct marketing and integrated marketing practice and present their findings in seminars. They plan and execute direct marketing campaigns as briefed by practitioners. Recommendations are presented to those practitioners for comment. Skills in appropriate areas are advanced to fully operative level.

**Prerequisite:** MKB128 and MKB158

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ MKB160 MARKETING

The role of marketing and the importance for the industrial design profession; the marketing mix of product, price, promotion and distribution, and marketing strategies for success.

**Credit Points:** 4      **Contact Hours:** 2 per week

#### ■ MKB161 PROPERTY MARKETING

Characteristics of the Australian property market, the nature of marketing problems. The marketing plan: the mix, implementation of plan and sales forecast; pricing decisions, approaches 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

#### ■ MKN100 ADVANCED QUANTITATIVE RESEARCH METHODS

Conceptual foundations of research design; research methodologies; data sources; methods of observation and data collection; data analysis; evaluation.

**Prerequisite:** MKB108. 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:** 3 per week

#### ■ MKN101 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:** MKN101

**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ MKN102 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 marketing logistics concepts.

**Prerequisite:** MKN101

**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ MKN103 ADVANCED MARKET 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.

**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ MKN104 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:** 144

### ■ MKN105 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.

**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ MKN106 MARKETING METHODS & PRACTICES

The role of marketing and how marketing fits into the strategic processes of firms and institutions; key marketing decision areas including the marketing concept, marketing research, consumer behaviour, marketing segmentation and positioning, product policy, pricing, promotion and distribution.

**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ MKN107 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. 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. Marketing issues associated with both profit and non-profit organisations and the relevance of marketing theory to these institutions, including the developing area of international marketing.

**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ MKP100 FUNDRAISING PRINCIPLES

The fundamentals of fundraising; the preparation of the case statement; planning methods; the various techniques of fundraising. Introductory segments on public relations, advertising, marketing and management. 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

### ■ MKP101 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; evaluating fundraising efforts. Students undertake a group project in the form of the analysis of a fundraising program. Topics include: strategic planning, management, financial issues, ethics and evaluation techniques.

**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ NSB114 CLINICAL PRACTICE 1A

This subject focuses on the acquisition of skills which are fundamental to nursing practice. Students practise communication skills, health assessment skills and selected technical skills in both University (on-campus) and clinical (off-campus) laboratories. The clinical laboratory experiences in this subject take place in a variety of settings which include various types of health care facilities, community facilities, domiciliary nursing services, occupational health services, disability services and outpatients clinics.

**Co-requisite:** NSB151

**Credit Points:** 8 **Contact Hours:** 6 per week

### ■ NSB115 CLINICAL PRACTICE 1B

This subject provides students with the opportunity to consolidate the skills which they have acquired during the preceding clinical subject, and aims at the achievement of a specific level of clinical competence. The learning experiences are conducted in the clinical (off-campus) laboratory, and the settings are as previously described.

**Co-requisite:** NSB114

**Credit Points:** 8  
**Contact Hours:** 60 per 2 week block following semester

### ■ NSB151 FOUNDATIONS OF NURSING PRACTICE 1

An introduction to the major concepts which are fundamental to nursing practice. Topics include: the nature of individuals, families and communities, the impact of the environment on health, the concept of health, and the relationship between nursing and health care. The significance of a conceptual approach to nursing practice is explored.

**Credit Points:** 8 **Contact Hours:** 3 per week

### ■ NSB152 FOUNDATIONS OF NURSING PRACTICE 2

Further development of the concepts of people, environment, health and nursing in order to facilitate an understanding of the theoretical basis of nursing practice. Topics include: human needs from a holistic perspective, human resources which can be utilised in the attainment of health, the roles of the nurse as a

clinician, patterns of nursing care delivery, health care in Australia, and the concept of the multidisciplinary health care team.

**Prerequisite:** NSB151

**Credit Points:** 8      **Contact Hours:** 3 per week

#### ■ NSB201 PRINCIPLES OF PATIENT CARE

This introductory subject 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

#### ■ NSB207 NURSING & THE INDIVIDUAL

The subject is designed to deepen and broaden the clinical decision making skill base of students who already have a foundation in nursing and related sciences from previous studies. It explores the significance of conceptual models for clinical decision-making, provides physical and psychosocial assessment skill practice, explores the concept of nursing diagnosis and associated care planning, and highlights the use of research in support of clinical decisions.

**Credit Points:** 8      **Contact Hours:** 3 per week

#### ■ NSB214 CLINICAL PRACTICE 2A

This subject provides students with the opportunity to continue the development of skills which are fundamental to nursing practice. Students practise applied communication skills, nursing diagnosis and care planning skills, and further selected technical skills in both University (on-campus) and clinical (off-campus) laboratories. The clinical laboratory experiences in this subject take place in a variety of settings which include hospitals, nursing homes and palliative care facilities.

**Co-requisites:** NSB114, NSB115, NSB151, NSB152

**Credit Points:** 8      **Contact Hours:** 3 per week

#### ■ NSB215 CLINICAL PRACTICE 2B

This subject provides students with the opportunity to consolidate the skills which they have acquired during the preceding subjects, particularly NSB214. It aims at the achievement of an increasing level of competence in clinical situations. The learning experiences are conducted in the clinical (off-campus) laboratory and the settings are as described for the preceding clinical practice subject.

**Co-requisites:** NSB114, NSB115, NSB214

**Credit Points:** 8

**Contact Hours:** 60 per 2 week block following semester

#### ■ NSB301 NURSING & BIOPHYSICAL HEALTH 1

The effects of selected pathophysiologic processes on the meeting of human needs; topics include: the assessment and nursing diagnosis of gas exchange, circulation, hydration, physical comfort and safety problems along with independent and collaborative strategies designed to promote, maintain and/or restore health.

**Prerequisites:** NSB151, NSB152

**Credit Points:** 8      **Contact Hours:** 3 per week

#### ■ NSB302 NURSING & MENTAL HEALTH 1

Theories, concepts and models which provide the basis for understanding the individual and their mental health needs, and aims to provide a framework for nursing care which acknowledges the importance of promoting, maintaining and restoring mental health. It addresses contemporary concepts of mental health

and mental illness; biological and sociocultural factors which can influence mental health and mental health problems; mental health assessment; and strategies for mental health promotion.

**Prerequisites:** NSB151, NSB152

**Credit Points:** 8      **Contact Hours:** 3 per week

#### ■ NSB304 NURSING & CULTURE

Socio-structural, behavioural, lifestyle and genetic factors play a large part in the determination of health status in contemporary Australia. This subject aims to develop an understanding, acceptance and appreciation of culture such that students are better able to provide people-centred care within a multicultural health care context. Topics include: the nature of culture and behavioural practices of societies, fundamental aspects of socio-anthropological and epidemiological methodology, the cultural nature of contemporary Australian society, health policy and ethnic sub-cultural diversity, and cultural beliefs, activities, values and behaviour regarding selected health-related practices.

**Credit Points:** 8      **Contact Hours:** 3 per week

#### ■ NSB314 CLINICAL PRACTICE 3A

This subject provides the opportunity for students to develop a range of skills which are associated with the nursing care of people experiencing biophysical or mental health dysfunction. Students practise the application of problem solving skills, selected technical and process skills and organising skills in both University (on-campus) and clinical (off-campus) laboratories. The clinical laboratory experiences in this subject are undertaken in settings which include hospitals and palliative care facilities or psychiatric-mental health facilities.

**Co-requisites:** NSB214, NSB301, NSB215, or NSB302

**Credit Points:** 8      **Contact Hours:** 6 per week

#### ■ NSB315 CLINICAL PRACTICE 3B

This subject provides students with the opportunity to consolidate skills which they have acquired in previous subjects, particularly NSB314. It aims at the achievement of an increasing level of competence in clinical situations. The learning experiences are conducted in the clinical (off-campus) laboratory, and the settings are as described for the preceding Clinical Practice subject.

**Co-requisite:** NSB314

**Credit Points:** 8

**Contact Hours:** 60 per 2 week block following semester

#### ■ NSB401 NURSING & BIOPHYSICAL HEALTH 2

This subject further develops an appreciation of the effects of selected pathophysiologic processes on the meeting of human needs. Topics addressed include the assessment and nursing diagnosis of elimination, mobility, nutrition, skin integrity and sleep/rest problems along with independent and collaborative strategies designed to promote, maintain and/or restore health.

**Credit Points:** 8      **Contact Hours:** 3 per week

#### ■ NSB402 NURSING & MENTAL HEALTH 2

Expansion of the application of nursing knowledge and research about mental health to the provision of nursing care to clients with mental health problems. It provides, at an advancing level, a theoretical foundation for mental health nursing practice with a focus on diagnostic reasoning and intervention strategies to



promote mental health and wellbeing. Topics include: theories of stress and adaptation; assessment, diagnosis and intervention in situations of developmental disorder, selected organic and non-organic mental syndromes and crisis intervention.

**Prerequisites:** NSB151, NSB152

**Credit Points:** 8 **Contact Hours:** 3 per week

#### ■ NSB406 NURSING & THE FAMILY

Family nursing practice recognises the substantial impact that families can have both on the health of individuals within the family unit, and upon society as a whole. This subject provides an introduction to the knowledge base which underpins family nursing practice, and facilitates the development of decision-making skills in this area. Topics include: nature of the family unit; family development; models of the family; and families with particular situational or developmental needs.

**Credit Points:** 8 **Contact Hours:** 3 per week

#### ■ NSB407 NURSING & THE COMMUNITY

Community health is an important focus for nursing practice. This subject provides an introduction to the fundamentals of community nursing practice and facilitates the development of decision-making skills in this area. Topics include: models of community; community development; perspectives of community health; the application of epidemiological principles to community health; community groups with particular health needs; strategies for the promotion of community health.

**Credit Points:** 8 **Contact Hours:** 3 per week

#### ■ NSB414 CLINICAL PRACTICE 4A

This subject provides further opportunity for students to develop skills which are associated with the nursing care of people experiencing biophysical or mental health dysfunction. Students practise the application of problem-solving skills, technical skills and health teaching skills in both the University (on-campus) and clinical (off-campus) laboratories. The clinical laboratory experiences takes place in settings which include hospitals, palliative care facilities, and disability services or psychiatric-mental health facilities and disability services.

**Co-requisites:** NSB214, NSB401, NSB215 or NSB402

**Credit Points:** 8 **Contact Hours:** 6 per week

#### ■ NSB415 CLINICAL PRACTICE 4B

This subject provides students with the opportunity to consolidate skills which they have acquired in previous subjects, particularly NSB414. It aims at the achievement of an increasing level of competence in clinical situations. The learning experiences are conducted in the clinical (off-campus) laboratories, and the settings are as described in the preceding clinical practice subject.

**Co-requisite:** NSB414

**Credit Points:** 8

**Contact Hours:** 60 per 2 week block following semester.

#### ■ NSB504 PROFESSIONAL ISSUES IN NURSING 1

Nursing as a profession and the implications for nursing practice. Topics include: the nature of professions; the development of standards; quality assurance strategies; the significance of continuing education; nursing authorities and organisations; influences on

the development of nursing as a profession; the future of professional nursing.

**Credit Points:** 8 **Contact Hours:** 3 per week

#### ■ NSB505 PROFESSIONAL ISSUES IN NURSING 2

The contemporary development of nursing as a profession is closely linked with an increasing focus on theory and theory development in nursing. This subject is designed to facilitate an understanding of the role that nursing theory plays within the discipline. Topics include: nature of nursing theory; the development of theory in nursing, and factors which have been influential in this process; and an overview of nursing theories and models including selected applications to practice.

**Credit Points:** 8 **Contact Hours:** 3 per week

#### ■ NSB514 CLINICAL PRACTICE 5A

This subject provides the opportunity for students to develop a range of clinical skills associated with the Health Strand which was not chosen for study during the second year of the program. Students practise the application of problem-solving skills; selected technical skills; organising, health education, client advocacy skills in both the University (on-campus) and clinical (off-campus) laboratories. The clinical laboratory experiences in this subject are undertaken in settings which include hospitals and palliative care facilities or psychiatric-mental health facilities.

**Co-requisites:** NSB214, NSB215

**Credit Points:** 8 **Contact Hours:** 3 per week

#### ■ NSB515 CLINICAL PRACTICE 5B

This subject provides students with the opportunity to consolidate skills which they have acquired in previous subjects, particularly NSB514. It aims at the achievement of an increasing level of competence in clinical situations. The learning experiences are conducted in clinical (off-campus) laboratories, and the settings are as described for the preceding clinical practice subjects.

**Co-requisite:** NSB514

**Credit Points:** 8

**Contact Hours:** 60 per 2 week block following semester

#### ■ NSB601 RESEARCH IN NURSING PRACTICE

An understanding of the components of the research process is essential in the development of an informed approach to contemporary nursing practice. This subject addresses topics which include the significance of research in nursing; the process of research; and the appraisal of research reports.

**Credit Points:** 8 **Contact Hours:** 3 per week

#### ■ NSB614 CLINICAL PRACTICE 6A

This subject provides students with the opportunity to develop further clinical skills associated with the Health Strand studied in the third year of the program. Students practise the application of problem-solving skills; selected technical skills; and organising, health education, advocacy and counselling skills in both the University (on-campus) and clinical (off-campus) laboratories. The clinical laboratory experiences in this subject are undertaken in settings which include hospitals, palliative care facilities and/or psychiatric – mental health facilities.

**Co-requisites:** NSB214, NSB215

**Credit Points:** 8 **Contact Hours:** 3 per week

#### ■ NSB615 CLINICAL PRACTICE 6B

This subject provides students with the opportunity to consolidate skills which they have acquired in previous subjects, especially Clinical Practice. It aims at the achievement of a level of competence which is consonant with the expectations of a beginning practitioner in nursing. The learning experiences are conducted in clinical (off-campus) laboratories, and the settings are as described for the preceding Clinical Practice subject.

**Co-requisite:** NSB614

**Credit Points:** 8

**Contact Hours:** 60 per 2 week block following semester

#### ■ 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 provides opportunities for students to develop skills in research design and data collection processes related to clinical phenomena. The data analysis component emphasises 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 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 are 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 1

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, provides 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 2

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 provides 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 3

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 provides 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 1

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 2

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 provides 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 3

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 provides 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 1

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, provides 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 2

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 provides 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 3

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

### ■ NSN114 MIDWIFERY 1

Philosophies of advanced midwifery practice; the role of the midwife; formal and informal structures that influence the practice of midwifery; strategies that facilitate the role of the midwife; family theory and concepts related to the community.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ NSN115 MIDWIFERY 2

The individual and family during child-bearing processes; the human and social sciences that form the basis of normal child-bearing processes; theoretical framework for health promotion and maintenance; the relationship between psycho-physiological phenomena, its effect on individual and family functioning; advanced midwifery practice.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ NSN116 MIDWIFERY 3

The individual and family during child-bearing processes that are affected by health problems; the human and social sciences related to health problems of pregnancy and the neonate. A theoretical framework for restorative and rehabilitative midwifery practice is developed and applied.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ NSN117 GERONTOLOGICAL NURSING 1

The individual and particularly the biological issues of ageing, both normal and abnormal; the clinical component emphasises the delivery of individualised nursing care which maximises the control and independence of the elderly person; genetic and non-genetic biological theories of ageing; epidemiological issues of age; selected acute or chronic health deviations common to ageing; nursing assessment, care planning and care delivery with the elderly client and approaches and technologies for maximising the independence of elderly people.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ NSN118 GERONTOLOGICAL NURSING 2

The family and the roles and relationships within families with elderly members; the psychological theories of later life; theories of adjustment to ageing; roles and relationships of families with elderly members; role of carers in families with a highly dependent older member and the assessment and selection of nursing interventions to be used with elderly clients and their families.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ NSN119 GERONTOLOGICAL NURSING 3

Ageing as a community and social issue; an investigation of social and policy responses to ageing in Australian and other societies; the sociology of ageing; principles of epidemiology of ageing and public health; role and status changes of ageing; social attitudes to ageing; historical perspectives; cross-cultural perspectives and the direction and impact of policies in relation to the aged population.

tural perspectives and the direction and impact of policies in relation to the aged population.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ NSN120 CHILD & ADOLESCENT NURSING 1

The role of the nurse who practises with children, adolescents and child rearing families within various health care systems, the factors that impinge on or facilitate the provision of care. Theoretical frameworks are utilised and a philosophy of advanced nursing practice is formulated.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ NSN121 CHILD & ADOLESCENT NURSING 2

The primary prevention strategies for the health of children, adolescents and the child rearing family; theoretical framework for health promotion and maintenance.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ NSN122 CHILD & ADOLESCENT NURSING 3

The pathophysiological and behavioural problems experienced by the child rearing family, children and adolescents who have special needs; the implications for the role of the nurse working in the area. Students develop competencies in advanced nursing practice to accommodate these special needs. The emphasis is on secondary and tertiary prevention strategies.

**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 the families of bereaved individuals with their adaptation to the loss. This subject provides 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 subject 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 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 provides 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 subject of study is to increase flexibility and provide the opportunity for indepth study in an approved area of study interest to meet the diverse needs and interests of practising registered nurses.

**Credit Points:** 6      **Contact Hours:** 1.5 per week

#### ■ NSN301 ADVANCED NURSING EDUCATION 1

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 focus on the professional practice of that discipline.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ NSN302 ADVANCED NURSING EDUCATION 2

This subject provides 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 focus on the professional practice of that discipline.

**Prerequisite:** NSN301

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ NSN303 ADVANCED NURSING EDUCATION 3

This subject enables 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 focus on the professional practice of that discipline. Content focuses 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 1

This subject provides 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 2

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 1

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 develop a conceptual framework for advanced clinical practice which includes but is not limited to: expert clinical practitioner advocate, change agent, professional role model, clinical teacher/mentor and motivator.

**Prerequisite:** Clinical Specialisation 3

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ NSN308 ADVANCED NURSING CLINICAL 2

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 provides experiences to strengthen clinical skill, knowledge and judgment.

**Prerequisite:** NSN301

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ NSN309 ADVANCED NURSING CLINICAL 3

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 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 is selected from techniques such as participant observation and unstructured interviewing as well as qualitative approaches in nursing research such as phenomenology, grounded theory, ethnography and historical research.

**Credit Points:** 12      **Contact Hours:** 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:** 12      **Contact Hours:** 6 per week

#### ■ NSN404 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:** 12      **Contact Hours:** 6 per week

#### ■ OPB132 OPHTHALMIC OPTICS 2

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 3

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 4

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.

**Prerequisites:** OPB312; PHB340  
**Co-requisite:** OPB401  
**Credit Points:** 14 **Contact Hours:** 5 per week

### ■ OPB504 OPHTHALMIC OPTICS 5

A continuation of OPB132, 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 5

The clinical application of techniques learnt in OPB509 (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

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:** OPB509, OPB505, OPB527  
**Credit Points:** 8 **Contact Hours:** 4 per week

### ■ OPB509 OPTOMETRY 5

The theory and practice of clinical procedures which are used in routine eye examinations.

**Prerequisites:** OPB412, OPB401  
**Co-requisite:** OPB508, OPB505, OPB527  
**Credit Points:** 18 **Contact Hours:** 9 per week

### ■ OPB527 DISEASES OF THE EYE 5

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 6

The continuation of OPB505. The clinical application of techniques learnt in OPB509 and OPB609 (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, OPB617  
**Credit Points:** 6 **Contact Hours:** 3 per week

### ■ OPB609 OPTOMETRY 6

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, OPB627, OPB617  
**Credit Points:** 16 **Contact Hours:** 8 per week

### ■ OPB617 CONTACT LENS STUDIES 6

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, OPB608  
**Credit Points:** 6 **Contact Hours:** 2 per week

### ■ OPB627 DISEASES OF THE EYE 6

A continuation of OPB527. 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, OPB617  
**Credit Points:** 8 **Contact Hours:** 4 per week

### ■ OPB705 CLINICAL OPTOMETRY 7

This is the clinical application of the procedures studied in OPB609 and OPB709, and includes the management of patients in the clinical situation.

**Prerequisite:** OPB605  
**Co-requisites:** OPB709, OPB717, OPB750  
**Credit Points:** 24 **Contact Hours:** 13 per week

### ■ OPB709 OPTOMETRY 7

This subject is a continuation of OPB609 and provides knowledge and understanding of the theory and clinical

cal procedures involved in paediatric optometry, low vision, colour vision and aniseikonia.

**Prerequisite:** OPB609, OPB760

**Co-requisites:** OPB705, OPB717

**Credit Points:** 10      **Contact Hours:** 5 per week

#### ■ OPB717 CONTACT LENS STUDIES 7

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-requisites:** OPB705, OPB709, OPB750

**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. 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, OPB705, OPB717

**Credit Points:** 10      **Contact Hours:** 2 per week

#### ■ OPB803 OCCUPATIONAL/PUBLIC HEALTH OPTOMETRY

A course of study to introduce the basic concepts of eye safety and visual ergonomics. Content includes 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-requisites:** OPB805, OPB750

**Credit Points:** 6      **Contact Hours:** 2 per week

#### ■ OPB805 CLINICAL OPTOMETRY 8

A continuation of OPB705. 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 effects, 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 2

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

#### ■ PHB111 PHYSICS 1B

A course of lectures and laboratory work on AC and DC circuit theory, electronics, vibrations and waves, sound.

**Co-requisite:** PHB104 unless Senior Physics has been undertaken.

**Credit Points:** 8      **Contact Hours:** 3 per week

#### ■ PHB122 PHYSICS 1

Dimensional analysis, kinematics, dynamics, motion in a curve, mechanical properties of matter, gravitation, fluids, waves and acoustics, circuit theory and electronics.

**Prerequisite:** Sound Achievement in Senior Physics

**Co-requisite:** PHB001

**Credit Points:** 12      **Contact Hours:** 5 per week

#### ■ PHB132 ENGINEERING PHYSICS 1A

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: light and colour, heat and energy transfer, solar energy physics, sound and acoustics, electricity, magnetism and electronics for the built environment.

**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

#### ■ PHB222 PHYSICS 2

Properties of matter; fluids; quantum and radiation physics; thermal physics; electromagnetic fields.

**Prerequisite:** Sound Achievement in Senior Physics

**Co-requisite:** PHB001

**Credit Points:** 12      **Contact Hours:** 5 per week

## ■ PHB232 ENGINEERING PHYSICS 2

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 2

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: 12 Contact Hours: 7 per week

## ■ PHB250 PHYSICS 2H

An extension of PHB150 including a.c., d.c. circuit theory, with emphasis on electronics and instrumentation, fields, modern 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: 8 Contact Hours: 2 per week

## ■ PHB262 PHYSICS 2L

An extension of PHB150 including a.c., d.c. circuit theory, with emphasis on electronic and instrumentation, fields, modern and nuclear physics.

Credit Points: 8 Contact Hours: 4 per week

## ■ PHB263 PHYSICS 2E

An extension of PHB150 including a.c., d.c. circuit theory, with emphasis on electronics and instrumentation, fields, modern and nuclear physics.

Credit Points: 12 Contact Hours: 6 per week

## ■ PHB272 RADIATION PHYSICS 1

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 1

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 1

Practical programs carried out in approved clinical departments. Specific experiences relate to topics introduced in PHB276.

Credit Points: 4 Contact Hours: 2 per week

## ■ PHB286 TREATMENT PLANNING 1

An introduction to the techniques of radiotherapy treatment planning.

Credit Points: 12 Contact Hours: 6 per week

## ■ PHB287 MEGAVOLTAGE THERAPY 1

An introduction to the basic techniques of radiotherapy including beam direction and defining devices.

Prerequisites: PHB178, PHB125

Credit Points: 6

Contact Hours: 3 per week

## ■ PHB289 CLINICAL RADIOGRAPHY 1

Practical programs carried out in approved clinical departments. Specific experiences relate to topics introduced in PHB287.

Credit Points: 4

Contact Hours: 2 per week

## ■ PHB313 RADIOGRAPHIC IMAGE INTERPRETATION

The basic of image formation in medical radiography, and the significance of diagnostic techniques and their image appearances in assessment of the lower extremity.

Credit Points: 6

Contact Hours: 3 per week

## ■ PHB322 PHYSICS 3A

Laplace Transforms; SHM; damped harmonic motion; forced oscillations; coupled oscillations; wave transmission and reflection; wave systems; AC circuit analysis; power; network analysis; resonance; AC measurements.

Prerequisites: PHB122, PHB222, MAB222

Co-requisite: MAB432

Credit Points: 12 Contact Hours: 5 per week

## ■ PHB332 PHYSICS 3B

Measures of sound; sound emission and propagation; sound in enclosed spaces; measurement; environmental and occupational noise; building and architectural acoustics. Interference by division of wavefront and by amplitude division; interferometry; diffraction; holography; Fourier methods.

Prerequisites: PHB122, PHB222 and (MAB212 or MAB222)

Credit Points: 12

Contact Hours: 5 per week

## ■ PHB340 OPTICS 3

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 emphasis on interference, interferometry, diffraction and polarisation; the specialised topics of optical processing, lasers and the evaluation of optical systems.

Prerequisites: PHB240, PHB250

Credit Points: 12

Contact Hours: 7 per week

## ■ PHB342 PHYSICS 3C

Forces between atoms; structure of solids; types of materials; defects; phase transformations; rate processes; diffusion and crystallisation; surfaces and interfacial phenomena; corrosion; mechanical properties; modern materials; vacuum theory; systems and components; leak detection and thin film processing.

Prerequisites: PHB122, PHB222 and (MAB212 or MAB222)

Credit Points: 12

Contact Hours: 5 per week

## ■ PHB352 ELECTRONICS 1

Laboratory measurement techniques and instrumentation; AC circuit analysis; Bode plots, pole-zero plots, RC networks, diodes, transistors, FET, SCR, Triac and applications; feedback theory and applications; operational amplifier fundamentals; digital circuits: gates, FF, counters, registers.

Prerequisite: At least four level 1 subjects, preferably including Physics.

Credit points: 12

Contact Hours: 5 per week

■ **PHB373 NUCLEAR MEDICINE IMAGING 1**  
The principles, equipment and applications of nuclear medicine imaging.  
Credit Points: 4      Contact Hours: 2 per week

■ **PHB374 RADIOGRAPHIC EQUIPMENT 1**  
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 2**  
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.  
Prerequisites: PHB276, PHB279, PNB225  
Credit Points: 12      Contact Hours: 5 per week

■ **PHB379 CLINICAL RADIOGRAPHY 2**  
Clinical experiences in radiographic examinations introduced in PHB276 and PHB376. Experience is obtained in approved clinical departments.  
Prerequisites: PHB276, PHB279, PNB225  
Credit Points: 10      Contact Hours: 5 per week

■ **PHB382 RADIOTHERAPY PHYSICS 1**  
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 2**  
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: 8      Contact Hours: 4 per week

■ **PHB387 MEGAVOLTAGE THERAPY 2**  
The principles and applications of megavoltage therapy including techniques for specific sites.  
Prerequisites: PHB287, PNB225  
Credit Points: 10      Contact Hours: 5 per week

■ **PHB389 CLINICAL RADIOTHERAPY 2**  
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

■ **PHB422 PHYSICS 4A**  
Review of quantum mechanics; microscopic systems in equilibrium; probability and statistics; statistical descriptions of systems; internal energy, equipartition; interaction of two systems; laws of thermodynamics; entropy; fundamental statistical relations; classical thermodynamics; kinetic theory; quantum statistics and quantum gases; compressible and incompressible flow; viscous effects; supersonic flow and applications.  
Prerequisites: PHB122, PHB222 and (MAB212 or MAB222)  
Credit Points: 12      Contact Hours: 5 per week

■ **PHB432 PHYSICS 4B**  
The Lorentz transformation; relativistic kinematics and dynamics; energy conversion and storage; photons; radioactivity; interaction of radiation with

matter; radiation detectors; counting statistics; nuclear reactions; non-ionising radiation.  
Prerequisites: PHB122, PHB222 and (MAB212 or MAB222)  
Credit Points: 12      Contact Hours: 5 per week

■ **PHB442 ASTRONOMY & ASTROPHYSICS**  
Spectral classification of stars; stellar formation, structure, evolution, introduction to general relativity and cosmology, galaxies, structure of the universe. Astronomical instrumentation other than optical, practical space astrophysics, advanced observational/practical work. Field trip.  
Prerequisites: PHB122 and SCB222  
Credit Points: 12      Contact Hours: 5 per week

■ **PHB452 ELECTRONICS 2**  
Applications of operational amplifiers and special function ICs including filter networks; transducers; digital circuits: memories, timers, A/D and D/A systems; microprocessor fundamentals.  
Prerequisite: PHB352  
Credit Points: 12      Contact Hours: 5 per week

■ **PHB462 EXPERIMENTAL PHYSICS 4**  
Experimental method and design; data analysis; preparation and presentation of reports; group project.  
Prerequisite: At least two level 2 Physics subjects.  
Credit Points: 12      Contact Hours: 5 per week

■ **PHB471 RADIATION PHYSICS 2**  
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 subjects of the course.  
Credit Points: 4      Contact Hours: 2 per week

■ **PHB473 MEDICAL ULTRASOUND**  
The physical principles and application of ultrasound.  
Credit Points: 4      Contact Hours: 2 per week

■ **PHB474 RADIOGRAPHIC EQUIPMENT 2**  
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 1**  
An introduction to the capabilities of computer hardware and software, and image processing.  
Credit Points: 8      Contact Hours: 3 per week

■ **PHB476 SPECIAL PROCEDURES**  
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 3**  
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 2**  
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 1

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 MEGAVOLTAGE THERAPY 3

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 3

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

Electromagnetic field theory; 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 3

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

A course of lectures and associated practical work on a range of physical techniques of analysis, including 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 5

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 2

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, arteriography and venography.

**Prerequisites:** PHB476, PHB479

**Co-requisite:** PHB578

**Credit Points:** 12      **Contact Hours:** 6 per week

#### ■ PHB578 IMAGE INTERPRETATION 1

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 4

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 O<sub>2</sub> therapy, neutron therapy, pi-meson therapy, chemotherapy, cryotherapy and hyperthermia.

**Credit Points:** 6      **Contact Hours:** 3 per week

#### ■ PHB584 PRINCIPLES OF TREATMENT 2

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 2 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 4

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

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

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: electrical transmission systems, amplifiers, mechanical systems, molecular behaviours in fields; instrumentation for inter-cellular and inter-organ measurements: micro-electronics, transducers.

**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 subject.

**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 2

An extension of topics in advanced radiographic technique as introduced in PHB576 to include mammography, 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 5

Clinical experience in advanced radiographic techniques introduced in PHB576.

**Prerequisites:** PHB576, PHB579

**Credit Points:** 14      **Contact Hours:** 6 per week

#### ■ PHB680 NUCLEAR MEDICINE IMAGING 2

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 2

The use of computers in the planning of non-standard and complex radiotherapy treatment including arc and rotation techniques, irregular field techniques, 3 dimensional 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 5

Clinical experience in specialised radiotherapy treatment techniques.

**Prerequisite:** PHB589

**Co-requisite:** PHB687

**Credit Points:** 8

**Contact Hours:** 4 per week

- **PHB701 TOPICS IN MEDICAL PHYSICS 1**  
Imaging techniques using ionising and non-ionising radiation, eg. planar X-ray, CT, nuclear medicine, MRI, ultrasound.  
**Credit Points:** 12      **Contact Hours:** 4 per week
- **PHB702 TOPICS IN MEDICAL PHYSICS 2**  
Image processing techniques; enhancement, restoration and analysis; non-imaging diagnostic techniques.  
**Credit Points:** 12      **Contact Hours:** 4 per week
- **PHB703 TOPICS IN MEDICAL PHYSICS 3**  
Principals and instrumentation of radiation dosimetry; radiobiology.  
**Credit Points:** 12      **Contact Hours:** 4 per week
- **PHB704 TOPICS IN MEDICAL PHYSICS 4**  
Clinical radiotherapy and advanced aspects of radiobiology.  
**Credit Points:** 12      **Contact Hours:** 4 per week
- **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 1**  
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 2**  
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 1**  
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 artefacts.  
**Credit Points:** 6      **Contact Hours:** 2 per week
- **PHN154 PRINCIPLES OF ULTRASOUND IMAGING**  
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 1**  
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 images and the appropriate quality control protocols.  
**Credit Points:** 8      **Contact Hours:** 3 per week
- **PHN257 CLINICAL ULTRASOUND 2**  
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 microcomputer 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 include: 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 architecture, display instrumentation, recording and storage.

**Credit Points:** 6      **Contact Hours:** 2 per week

■ **PHN351 ULTRASOUND EQUIPMENT 2**

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; 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**

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 3**

A supervised practical program carried out in an approved clinical ultrasound department. Students must obtain experience of specified ultrasound examinations used in cardiology and in the examination of the head, neck and peripheral organs.

**Prerequisite:** PHN257

**Credit Points:** 12

■ **PHN402 RADIOTHERAPY**

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 QUT 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

■ **PHS021 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. **Note:** This subject is not compatible with Senior Physics.

**Credit Points:** 6

**Contact Hours:** 3 per week

■ **PLB102 HISTORY OF THE BUILT ENVIRONMENT 1**

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

■ **PLB135 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:** 2

**Contact Hours:** 1 per week

■ **PLB200 INTRODUCTORY DESIGN 2**

Studio work; simple 3 dimensional design tasks at a variety of scales, and illustrating tasks associated with the five professions. Workshop and fieldwork are related to studio exercises.

**Prerequisite:** ARB140

**Credit Points:** 18

**Contact Hours:** 8 per week

■ **PLB201 THE HUMAN ENVIRONMENT 2**

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

■ **PLB209 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

■ **PLB300 PLANNING & LANDSCAPE DESIGN 1**

Site planning theory and problem solving theory. The studio exercises develop the capacity to analyse the nature and use of spaces and to understand the role of creative expression in design.

**Prerequisites:** ARB140, ARB141, PLB113,

PLB200, PLB209

**Credit Points:** 18

**Contact Hours:** 8 per week

■ **PLB301 THE HUMAN ENVIRONMENT 3**

The role of social, cultural, and historical variables in human-environment interactions. The social and cultural development of Australian urban environments. Theory: privacy, personal space, territoriality, environmental meaning and cognition, cognitive maps

and wayfinding, intercultural and intracultural differences.

**Prerequisite:** PLB201

**Credit Points:** 6      **Contact Hours:** 3 per week

#### ■ PLB340 SITE MEASUREMENT

Introduction to basic equipment for site measurement: levels, staffs, chains and tapes, the 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.

**Credit Points:** 4      **Contact Hours:** 1 per week

#### ■ PLB343 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. Organisation and activities of the professional institutes. The powers, responsibilities and day-to-day activities of landscape architects and urban and regional planners.

**Credit Points:** 3      **Contact Hours:** 1 per week

#### ■ PLB346 GRAPHIC COMMUNICATION

A practice-based program with specialised, formal lecture inputs related to the development of methodologies. The program concentrates on the achievement of a professional standard in basic techniques of production documentation.

**Prerequisites:** ARB140, PLB200

**Credit Points:** 6      **Contact Hours:** 3 per week

#### ■ PLB400 PLANNING & LANDSCAPE DESIGN 2

Site planning techniques. The studio exercises link work commenced in site planning theory and site planning techniques. The subject integrates issues covered in PLB300 with the technical and practical aspects of site planning and design.

**Prerequisites:** PLB300, PLB301, PLB345

**Credit Points:** 20      **Contact Hours:** 6 per week

#### ■ PLB401 THE HUMAN ENVIRONMENT 4

Directing society; the roles of government and private enterprise; theories of power in society. The Australian example; three tiers of government; Australian constitution; Parliamentary democracy. Queensland State administration; role of local government, quangos and statutory authorities; pressure groups and lobby groups and their influence in the built environment arena.

**Prerequisite:** PLB301

**Credit Points:** 4      **Contact Hours:** 2 per week

#### ■ PLB408 DESIGN SCIENCE

The quantity and quality of light and daylight in buildings; macro and micro climatic conditions. Throughout the subject as each of these units is covered students are given opportunity to conduct experiments and test models. The subject consists of lecture and practical work.

**Prerequisites:** ARB140, CHB204, PHB144, PLB113, PLB200, PLB209

**Credit Points:** 4      **Contact Hours:** 2 per week

#### ■ PLB409 COMPUTER TECHNIQUES

Development of understanding, awareness, and appreciation of the use of computers as aids in data analysis and presentation, and of basic skills to input, manipulate, and analyse output; for statistical analysis of data in decision making; the range of information

systems; as a tool in landscape architecture and planning.

**Prerequisites:** MAB195, MAB196

**Credit Points:** 4      **Contact Hours:** 2 per week

#### ■ PLB411 LANDSCAPE ECOLOGY

The broad division of the earth in relation to climate and soils; the ecosystem concept and its development and application at various geographic scales; concept of community ecophysiology and growth equations; ecological biogeography of Australian vegetation; classification of landscape: concepts of biogeographic regions; landscape structure: patches and corridors and the ideas of matrix and network; analysis of landscape structure and function.

**Credit Points:** 8      **Contact Hours:** 3 per week

#### ■ PLB414 POPULATION & URBAN STUDIES

Topics include: aspects of urban structure including size/function relationships, concentric zone theory, Hoyt's settlement patterns and problems of rural settlements. 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

#### ■ PLB440 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 second part of the subject deals with microeconomic concepts. The market system and associated concepts of demand, supply and price equilibrium.

**Credit Points:** 2      **Contact Hours:** 1 per week

#### ■ PLB441 URBAN PLANNING 2

Principles and practice of planning. Introduction: background to emergence of planning in Queensland. Types of planning: development planning; development control; strategic planning. Detailed coverage of the current development approval process including Local Government (Planning and Environment) Act 1990. Conservation and heritage protection.

**Credit Points:** 4      **Contact Hours:** 2 per week

#### ■ PLB442 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

#### ■ PLB500 PLANNING & LANDSCAPE DESIGN 3

This subject aims to confirm the student's appreciation of the coherence of the design process by a single integrated semester long project. Secondly, the exercise focuses on interdisciplinary skills by undertaking joint work with the architecture students.

**Prerequisites:** PLB400, PLB408, PLB411

**Credit Points:** 20      **Contact Hours:** 6 per week

#### ■ PLB511 LANDSCAPE CONSTRUCTION

Materials and methods of construction; skills in detailing and preparation of documents. Topics include: the common building materials; foundation soils; basic services of site stormwater drainage, water

and electrical services; applied systems, including paving, etc.

**Prerequisites:** PLB340, PLB345

**Credit Points:** 6      **Contact Hours:** 3 per week

#### ■ PLB546 LAND DEVELOPMENT 1

The political, economic and physical contexts of land development; environmental services and utilities at the broad scale; the necessary design criteria for these services. Topics include: characteristics of land development projects; structure and operation of approval authorities; design considerations; impacts of electricity and gas systems on the natural environment; transport systems planning.

**Credit Points:** 8      **Contact Hours:** 3 per week

#### ■ PLB547 LAND USE GENERATION

The evolution of western cities. 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

#### ■ PLB561 ECONOMICS OF TOWN PLANNING

This subject is essentially microeconomic. 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

#### ■ PLB562 REPORT PREPARATION

Formal writing techniques, including reports, instructions, proposals, specifications, correspondence and essays. Report writing. Structure and content of reports. Summaries and subdivision of materials. Precise use of tables, charts, and illustrations in written presentation. Clarity and the selection of data.

**Prerequisites:** CMB116, CMB117, PLB346

**Credit Points:** 2      **Contact Hours:** 1 per week

#### ■ PLB563 TRANSPORT PLANNING

Studies include 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. 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

#### ■ PLB565 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:** 6      **Contact Hours:** 2 per week

#### ■ PLB600 PLANNING & LANDSCAPE DESIGN 4

Expansion of students' planning and design skills by increasing the complexity and scale of projects and introducing problems requiring knowledge and skills drawn from the human environment, natural environ-

ment and technology study areas. The three projects for the semester focus on the development a significant urban area.

**Prerequisites:** PLB400, PLB408, PLB411, PLB414, PLB511

**Credit Points:** 20      **Contact Hours:** 6 per week

#### ■ PLB640 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.

**Prerequisite:** PLB345

**Credit Points:** 3      **Contact Hours:** 1 per week

#### ■ PLB643 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.

**Prerequisites:** Completion of years 1 and 2

**Credit Points:** 2      **Contact Hours:** 1 per week

#### ■ PLB645 GRADING

Techniques of land surface manipulation including the construction of platforms for building, carparks, sports ovals and other features and the associated provision of surface drainage. Lectures are accompanied by skill development exercises in a grading workbook concluding with the preparation of two set grading plans.

**Prerequisite:** PLB340

**Credit Points:** 4      **Contact Hours:** 2 per week

#### ■ PLB646 LAND DEVELOPMENT 2

Continuation of PLB546. 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.

**Prerequisite:** PLB546

**Credit Points:** 7      **Contact Hours:** 3 per week

#### ■ PLB647 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. Organisations as policy makers and policy implementors. Areas of conflict and their resolution. The various levels and types of land use planning. Major land uses and activities; work, housing, recreation, transport and welfare.

**Prerequisite:** PLB547

**Credit Points:** 4      **Contact Hours:** 2 per week

#### ■ PLB649 CONSERVATION THEORY

Introduction to the concepts of conservation and preservation. 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.

**Credit Points:** 2      **Contact Hours:** 1 per week

## ■ PLB651 ELECTIVE – LANDSCAPE ARCHITECTURE

Final year undergraduate students are required to undertake a minimum of two hours of elective subjects. The elective may be taken in either semester or spread across both semesters depending on subject choice.

**Prerequisites:** Completion of years 1 and 2

**Credit Points:** 4      **Contact Hours:** 2 per week

## ■ PLB654 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.

**Prerequisites:** Completion of years 1 and 2

**Credit points:** 4      **Contact Hours:** 2 per week

## ■ PLB656 HOUSING & COMMUNITY SERVICES

Population change and households formation. 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. Shared use of facilities. Location and space standards. Social and welfare services and their role in the community.

**Credit Points:** 4      **Contact Hours:** 2 per week

## ■ PLB659 IMPACTS & ASSESSMENT

Forms of impact assessment and analysis considering ecological, social and economic issues; various statutory systems. An analysis of the ecological processes as a background to assessing impact of human activities: urbanisation, resource exploitation, mining and other forms of landscape change.

**Prerequisites:** PLB411, PLB414

**Credit Points:** 5      **Contact Hours:** 2 per week

## ■ PLB663 URBAN PLANNING 1

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

## ■ PLN101 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.

**Credit Points:** 8      **Contact Hours:** 3 per week

## ■ PLN102 URBAN DESIGN CONTEXT STUDIO

Students are required to undertake studies typically from a community participation project, a sense of place project, a conservation and infill project for the redevelopment/rehabilitation of urban precincts or residential areas. Techniques of guidance and control: the use of regulations, ratios, and performance stand-

ards. Positive planning and the use of incentives for good design: bonuses, transferable rights, advance publication of permissible development, rapid decisions, early dissemination of information. Where applicable, work in other units of study will be related to this subject.

**Credit Points:** 8

**Contact Hours:** 3 per week

## ■ PLN103 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. Students are required to undertake studies 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:** 8

**Contact Hours:** 3 per week

## ■ PLN105 URBAN DESIGN FIELD STUDIES

This subject consists of a field trip of approximately ten days duration. Visits to successful and unsuccessful examples of urban design and to design offices in the eastern states and the Australian Capital Territory. Students are required to analyse existing and proposed examples in the context of their original design criteria including cultural, social, political, economic and physical aspects to understand the applicable design rules. Examples are reviewed through site visits, discussion and seminars with designers and users.

**Credit Points:** 2

**Contact Hours:** Approx 10 day field trip.

## ■ PLN111 COMPARATIVE PLANNING THEORY

The roles of planners: statutory, pluralist, advocate, consultants; 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. Current metropolitan and regional planning issues in Australia.

**Credit Points:** 8

**Contact Hours:** 2 per week

## ■ PLN112 CONCENTRATION STUDIES

In consultation with the lecturer in charge of the course, and with the approval of the Head of School, each student undertakes 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 normally deals with the theoretical background or broad context of the topic selected for study.

**Credit Points:** 8

**Contact Hours:** 2 per week

## ■ PLN113 OPTION PROJECTS

Working in small groups, students undertake projects which broadly relate to their theses 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

#### ■ PLN114 APPLIED RESEARCH TECHNIQUES

Research techniques, including surveys of various types, statistical analysis, remote sensing and others as appropriate.

**Credit Points:** 4      **Contact Hours:** 1 per week

#### ■ PLN115 METROPOLITAN PLANNING PRACTICE & 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:** 16      **Contact Hours:** 3 per week

#### ■ PLN121 PLANNING THESIS

The thesis is normally 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. It 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 to a closely related area.

**Credit Points:** 24      **Contact Hours:** 2 per week

#### ■ PLN122 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 the Master of Built Environment program are expected to attend and to participate fully in the discussions.

**Credit Points:** 8      **Contact Hours:** 2 per week

#### ■ PLN123 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 land and labour intensive; economic transformations; the future of urban-rural relations in developing countries.

**Credit Points:** 8      **Contact Hours:** 2 per week

#### ■ PLN124 OPTION COURSE

This course is developed by senior academic staff in response to matters of particular current significance; there are also opportunities to select appropriate elective courses from elsewhere within and outside the University.

**Credit Points:** 8      **Contact Hours:** 2 per week

#### ■ PLN201 URBAN DESIGN HISTORY OF URBAN SYSTEMS

Analysis of urban forms and systems in the pre-industrial, industrial and post-industrial periods. Specific topics include urban activities: commerce, manufacture, administration, dwelling, recreation and

culture; urban services: water supply, transportation, defence and public order, fire control, sewerage and waste disposal, fuel and power, public information; urban form: planning for intelligibility, planning for propriety and symbolism, planning for delight.

**Credit Points:** 4      **Contact Hours:** 1 per week

#### ■ PLN204 URBAN DESIGN THEORY & CRITICISM

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 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, the Townscape movement, Jacobs and 'The Death and Life of Great American Cities', Alexander on the urban system, the intelligible city, the work of Lynch and Appleyard, Rapoport on urban meaning, Habraken, Rowe and the city as independent artefact, Canter, Relph and Tuan on the phenomenology of the city, Maitland's analysis of urban design concepts.

**Credit Points:** 4      **Contact Hours:** 1 per week

#### ■ PLN250 MASTERS STUDIO

Students select a specific studio usually related to the proposed focus of study. Studios are organised on a thematic rather than a purely disciplinary basis and projects will involve members of several disciplines in schemes of varying scales. Advanced problem solving and interactive skills are required. Emphasis is placed on coordinated and managed group activity and resulting high levels of team output are expected. Professional aspects of project activities are supported by formal input on advanced aspects and concepts.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ PLN251 ADVANCED PRACTICE 1

Presumes prerequisite understanding of practice relationships and processes. Emphasis is on the establishment and development of new markets and appropriate methodologies. Students are expected to use knowledge and skills developed in concurrent subjects.

**Credit Points:** 4      **Contact Hours:** 1 per week

#### ■ PLN252 ADVANCED PRACTICE 2

Presumes prerequisite understanding of practice relationships and processes. Emphasis is on the establishment and development of new markets and appropriate methodologies. Students are expected to use knowledge and skills developed in concurrent subjects.

**Credit Points:** 8      **Contact Hours:** 2 per week

#### ■ PLN253 PRACTICE SEMINAR

Students are required to prepare and present a formal seminar on a professional topical subject and to participate in those presented by fellow students.

**Credit Points:** 6      **Contact Hours:** 2 per week

#### ■ PLN254 PROFESSIONAL SEMINARS

This subject provides a forum for interdisciplinary discussion. Local and visiting speakers contribute specialist expertise and knowledge of specific issues or projects related to the work and interests of the contributing majors.

**Credit Points:** 8      **Contact Hours:** 2 per week

#### ■ PLN255 DESIGNATED STUDIES

Students, in conjunction with and with the approval of the Course Coordinator elect studies to improve



basic knowledge in identified areas of deficiency. Such study may be either in defined subjects offered outside the major or a specified reading/research program under tutorial guidance.

**Credit Points:** 6      **Contact Hours:** 2 per week

### ■ PLN256 CONCENTRATION STUDIES

Each student undertakes approved study to develop more specialised knowledge and skills related to their specific focus of study or dissertation topic. Study may be taken within the student's own major through specialist studies offered by staff in their areas of expertise, from other majors in the course, or from other advanced studies in the University.

**Credit Points:** 8      **Contact Hours:** 2 per week

### ■ PLN257 RESEARCH METHOD

Students are introduced to issues related to the purpose, organisation, and conduct of research and to a range of appropriate techniques for the collection and analysis of information relating to their dissertation topics. The current state of research and publication in the profession is highlighted. Each student is required to prepare a proposal for the dissertation.

**Credit Points:** 4      **Contact Hours:** 1 per week

### ■ PLN258 DISSERTATION

This subject provides the opportunity to pursue in depth and with innovation an issue or problem within the chosen focus of study. This may be achieved through emphasis on either design or process. The balance between theory and design application may vary; however, a dissertation which focuses on a specific design must be supported by a theoretical basis and analysis sufficient to define the problem and to explain how the design satisfies the conditions for a solution. Conversely, a dissertation which focuses on the development of a theory must illustrate the practical implications of the theory for the relevant classes of design.

**Credit Points:** 24      **Contact Hours:** 4 per week

### ■ PLN302 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, enclosures, floors, overhead structures, services, features, finishes. Natural elements and their nurture within urban areas: vegetation species, groupings, and their requirements, streets, plazas, forecourts, roofs, parts 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:** 4      **Contact Hours:** 1 per week

### ■ PLN304 URBAN SERVICES & FUNCTIONS

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. 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, railway and light rail, water, evaluation of comparative system. Major traffic generators: airports, terminals, CBD circulation. Related environmental and design issues: noise, atmospheric pollution, physical and visual impacts of difference systems and traffic channels. Future trends in transport and movement systems and related issues.

**Credit Points:** 4      **Contact Hours:** 1 per week

### ■ PLN401 COMPUTER APPLICATIONS IN URBAN DESIGN

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; environmental and service systems analysis; development control testing; data handling and manipulation; computer graphics; interactive integrated design systems.

**Credit Points:** 4      **Contact Hours:** 2 per week

### ■ PLN402 LAW & LEGISLATION IN URBAN DESIGN

Legislative controls and law reform related to urban design and the development process with specific reference to Queensland. Topics include the potential range of legislative controls, principal relevant legislation in Queensland and its impacts on urban design, the development control authority, arbitration processes of the State Government and influence of additional legislation (eg Group Title, Heritage Acts, pedestrian malls) on the urban design process.

**Credit Points:** 4      **Contact Hours:** 1 per week

### ■ PLN501 URBAN DESIGN RESEARCH DISSERTATION (Masters students only)

The Research dissertation provides the student with the opportunity to innovatively 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 the Course Coordinator. 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 is supported by work undertaken as Applied Research Techniques.

**Credit Points:** 24      **Contact Hours:** 4 per week

### ■ PLN701 URBAN DESIGN ELECTIVE 1 (Graduate Diploma students only)

The opportunity for students to study an area of urban design of personal choice. Study required for this subject is undertaken as a taught subject within the University, with the approval of the Course Coordinator.

**Credit Points:** 4      **Contact Hours:** 1 per week

### ■ PLN702 URBAN DESIGN ELECTIVE 2 (Graduate Diploma students only)

Study required for the subject may be undertaken as taught subjects within the University or may be undertaken partly as taught subject and partly as individual studies under the direction of a tutor, all with the approval of the Course Coordinator. A normal program would be four taught subjects of average 6 credit points taken within the faculty or, two taught subjects of average 6 credit points taken within the

faculty and a design project or study program under tutorship.

**Credit Points:** 24 **Contact Hours:** 4 to 8 per week

#### ■ PLP201 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

#### ■ PLP202 RESIDENTIAL LANDSCAPE DESIGN

Landscape design of single and multiple dwellings; range of housing and subdivision types; consequences for design; controls, by-laws, standards and regulations for residential development; relevant 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; fashion, style, environmental constants, microclimatic control, viewsheds and privacy, noise amelioration.

**Credit Points:** 8 **Contact Hours:** 3 per week

#### ■ PLP203 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; preparation of a project brief; space theory and principles of spatial design. Studio: a medium scale intensive/multiple use project which demands re-design and rehabilitation; project site(s) visits and site surveys and client interviews to establish project briefs and carry out the design project; an advanced level of professional presentation is attached to the project output.

**Credit Points:** 10 **Contact Hours:** 3 per week

#### ■ PLP204 LANDSCAPE PLANNING

Studies of medium to large-scale projects involving a range of biophysical, cultural and visual issues with a relatively high degree of complexity; focus 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; studio incorporating lecture/seminar program to promote an understanding of the theoretical framework of landscape planning.

**Credit Points:** 10 **Contact Hours:** 4 per week

#### ■ PLP205 LANDSCAPE DESIGN

Landscape design problems of increased scope, complexity and constraint; at least one one-day esquisse project in addition to the primary theme project extending for the duration of the subject; emphasis on the consistent resolution of design from broad concept through to the most detailed level; matters of appropriate style and morphology; theme applied consistently through scale and organisation of layout, selection of materials, forms and elements, and integration with surrounding context.

**Credit Points:** 10 **Contact Hours:** 3 per week

#### ■ PLP206 FORUM/WORKSHOP A

#### ■ PLP207 FORUM/WORKSHOP B

Content depends on the needs of students as perceived by staff during each semester: forum discussions structured around topical issues as debates, panel discussions, or seminars which may involve visiting specialist lecturers and/or participants. Skills extension session as 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

#### ■ PLP208 LANDSCAPE PRACTICE

Practical experience for a period of at least three weeks in a landscape architectural office or offices as approved by the Course Coordinator; prerequisite to or co-requisite with the second part of the subject and logged as directed; lectures in 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

#### ■ PLP209 ADVANCED LANDSCAPE ECOLOGY

Structure of landscape and impact of human settlement; heterogeneous landscapes, patches, corridors, and the matrix; contrast and grain size; interaction among 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; computer graphics and modelling in landscape ecology; case studies in landscape ecology practice; potential for biological habitat reconstruction: issues, ethics, and practice.

**Credit Points:** 2 **Contact Hours:** 1 per week

#### ■ PLP210 LANDSCAPE MANAGEMENT A

The relationship between management created/dependent landscapes and construction created landscapes; specifying and programming construction and management as part of design implementation; specialisations and appropriate case studies; horticulture, urban horticulture, arboriculture, plantscapes; bushland management, regeneration, and monitoring; catchment and water-course management, embankment stabilisation.

**Credit Points:** 10 **Contact Hours:** 4 per week

#### ■ PLP211 LANDSCAPE MANAGEMENT B

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; ecosystem protection; corridor and catchment management; 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

#### ■ PLP212 ADVANCED GRAPHICS

Applications of large format design presentations; 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

## ■ PLP213 ADVANCED LANDSCAPE CONSTRUCTION

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. Types of documentation used for the implementation of landscape works including working drawings, specifications, bills and schedules of quantities and methods of production; production of working drawings and specification of a competent standard.

**Credit Points:** 8      **Contact Hours:** 3 per week

## ■ PLP214 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, coastal development; engineering constraints, design parameters, standards, erosion control methods; airfields, power reticulation-controlling authorities and legislation.

**Credit Points:** 4      **Contact Hours:** 2 per week

## ■ PLP215 SCHOOL FIELD TRIP

The field trip is 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 form the major thrust of the field trip.

**Credit Points:** 2      **Contact Hours:** 7-10 days

## ■ PLP216 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 manipulation of data; development of graphic skills using the Autocad system.

**Credit Points:** 2      **Contact Hours:** 1 per week

## ■ PLP217 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; working knowledge of ArcInfo (PC version) and current applications in landscape architecture.

**Credit Points:** 2      **Contact Hours:** 1 per week

## ■ PLP401 RURAL LAND USE & PLANNING

Rural land use patterns; characteristics and dynamics of rural land uses; impacts of rural resource developments. Rural land evaluation. Rural planning and characterisations of rural settlements; the rural urban fringe. Associated project and field work.

**Credit Points:** 4      **Contact Hours:** 1 per week

## ■ PLP402 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

## ■ PLP403 PLANNING PROCESSES

Creativity, scientific method and planning method. Prediction, uncertainty, partial rationality and planning horizons. Deductive, inductive and hypothesis-based approaches to planning method. Objective formulation, data selection and analysis, resource and potential surface analysis. Policy formulation and plan generation. Evaluation monitoring and reformulation of objectives.

**Credit Points:** 6      **Contact Hours:** 2 per week

## ■ PLP404 THEORIES FOR PLANNING

Ideas and theories in planning; theory as a basis for practice; 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; concepts of the public interest, social justice and public intervention.

**Credit Points:** 4      **Contact Hours:** 2 per week

## ■ PLP405 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

## ■ PLP406 PROFESSIONAL PROCEDURES & ETHICS

Nature and role of a profession and professionalisation; codes of practice and ethics; 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

## ■ PLP407 URBAN POLICY PROCESSES

Models of public decision making: rational, incremental, bureaucratic, etc.; roles of political, administrative and private factors in public policy-making; organisational and inter-organisational theory; ways of improving urban policy making at the organisational and inter-organisational levels: corporate planning, PPBS, management by objectives, strategic choice, etc.

**Credit Points:** 4      **Contact Hours:** 2 per week

## ■ PLP408 SOCIAL & POLITICAL STRUCTURE

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

## ■ PLP409 EMPLOYMENT, INDUSTRY & COMMERCE

The economy and its changing structure; the labour force, including measurement and trends; industrial location with special reference to manufacturing; retail and commercial activities; other services, in-

cluding recreational industries; some contemporary problems, eg. unemployment, technological change, industry rationalisation.

**Credit Points:** 4      **Contact Hours:** 2 per week

#### ■ PLP411 PLANNING PRACTICE & LAW (URBAN)

A problem-solving group project set in an inner metropolitan or small town location, often undertaken in conjunction with local communities and councils. 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:** 12      **Contact Hours:** 4 per week

#### ■ PLP412 PLANNING PRACTICE & LAW (REGIONAL & STRATEGIC)

The regional concept and its relevance to planning; aims of regional and strategic planning; 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

#### ■ PLP413 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

#### ■ PLP414 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

#### ■ PLP415 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 10-1200 words in length (or equivalent).

**Credit Points:** 10      **Contact Hours:** 2 per week

#### ■ PLP416 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 private sector; pressure groups; implementation and evaluation in the urban planning process. Development of skills for improving the implementation of urban policies, including conflict resolution and negotiation skills; case studies.

**Credit Points:** 4      **Contact Hours:** 1 per week

#### ■ PLP418 COMPUTER APPLICATIONS IN PLANNING

Information storage and retrieval; sources of information and databases; census, local surveys, networked databases, etc. the use of information in decision making; manipulation of information by use of statistical packages, spread sheets and databases; Geographical Information Systems, and CAD, including hands on experience with drafting, digitising, etc. and the specific use of Land Information Systems.

**Credit Points:** 6      **Contact Hours:** 2 per week

#### ■ PLP420 SCHOOL 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

#### ■ PLP501 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

#### ■ PLP502 SITE PLANNING TECHNIQUES

Introduction to the processes of site planning and detailed site design; role and objectives of survey and analysis; types of information and the methods of processing resultant data; data analysis to generate and evaluate problem solutions in conceptual form as a basis for strategic and master planning.

**Credit Points:** 2      **Contact Hours:** 1 per week

#### ■ PLP503 HISTORY OF LANDSCAPE DESIGN

The form, content, influencing factors, and implications 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

#### ■ PLP504 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 plantings, gardens, and broadscale regeneration and stabilisation.

**Credit Points:** 3      **Contact Hours:** 1 per week

#### ■ PLP505 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

#### ■ PLP506 USER & CHARACTER DESIGN STUDIES

User behaviour and requirements using two or three city centre pedestrian spaces; use of the same loca-

tions to analyse the spaces in light of both their own inherent characters and the users needs and responses defined earlier; an introduction to the concept of abstraction; making sculptures or models expressing the spirit of the places studied earlier in the semester.  
**Credit Points:** 8      **Contact Hours:** 3 per week

#### ■ PLP507 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 is given to alternative concept formulation and evaluation as a critical decision-making phase of the design process.

**Credit Points:** 9      **Contact Hours:** 3 per week

#### ■ PLP508 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. 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

#### ■ PLP509 QUANTITIES & COSTS

Measurement and costing of time, resources, and materials for professional services, production of documents and implementation of projects; techniques and tools for preliminary and detailed measurement and costing and their control; time and percentage measurement and costing of 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 design projects; techniques of cost control.

**Credit Points:** 2      **Contact Hours:** 1 per week

#### ■ PLP510 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 copyright.

**Credit Points:** 2      **Contact Hours:** 1 per week

#### ■ PLP511 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, person 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

#### ■ PLP513 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; herbivore and other interactions with the fauna; introduction to ecosystems and energy and nutrient flows.

**Credit Points:** 4      **Contact Hours:** 2 per week

#### ■ PLP514 LANDSCAPE ECOLOGY

Broad divisions of the earth related to climate and soils: biomes, formations, alliances, associations, and societies; the ecosystem concept and its development and application; 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 conservation planning; landscape ecology and landscape planning practice.

**Credit Points:** 9      **Contact Hours:** 3 per week

#### ■ PLP515 IMPACTS & ASSESSMENT

Decision-making and conflict resolution techniques relevant to land and other natural resource planning and management; analysis of ecological processes as background to assessing impact of human activities or urbanisation, resource exploitation, mining, and other landscape changes; statutory assessment systems especially those pertaining to Queensland and under Federal legislation.

**Credit Points:** 4      **Contact Hours:** 2 per week

#### ■ PLP516 VISUAL COMMUNICATION – GRAPHICS

Lettering, layout, and visual themes in display communication; scale, emphasis, readability, and organisation of various types of information: photos, diagrams, text, sketches, plans, etc.; use of diagrams as major tools to explore and to communicate information from concepts through to physical relationships; range of sketch types and appropriateness to different types of work such as exploration of form, analysis, and communication of concepts.

**Credit Points:** 6      **Contact Hours:** 3 per week

#### ■ PLP520 LANDSCAPE GRAPHICS

Combined application of freehand, drafting and colour techniques. The selection of colour, theme and emphasis in graphics 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

#### ■ PLP521 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

#### ■ PLP522 MEASUREMENT OF SITES

Introduction to basic equipment for site measurement: levels, staffs, chains and tapes, the prismatic compass, optical square, clinometer, range poles: 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

**■ PLP523 LANDSCAPE CONSTRUCTION 1**

**■ PLP524 LANDSCAPE CONSTRUCTION 2**

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. Properties and application of common construction materials in landscape situations: concrete, masonry, stonework, timber, metalwork, glass, applied finishes; foundation soils; basic services of site storm water drainage, water, and electricity; applied systems; construction for planting and small water features. Manual techniques of land surface manipulation for site uses including building platforms, carparks, sports ovals, and surface drainage. Establishment of sound techniques of technical drawing in the preparation of construction documents.

**Credit Points:** 6 each subject

**Contact Hours:** 3 hours per week each subject

**■ PLP551 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 systems; 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

**■ PLP552 INTRODUCTION TO GRAPHICS**

Freehand sketching of objects from observation, rendering textured surfaces, design, developmental graphics, understanding 2 dimensional layout and competence in presentation of 2 dimensional design in reports and drawings.

**Credit Points:** 5

**Contact Hours:** 2 per week

**■ PLP553 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

**■ PLP554 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

**■ PLP555 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

**■ PLP557 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

**■ PLP558 POPULATION & URBAN STUDIES**

Basic urban definitions, spread and characteristics of urbanisation, 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, familiarisation with the role of ABS and with statistical and data analysis of the Australian population, world demographic trends.

**Credit Points:** 10

**Contact Hours:** 3 per week

**■ PLP559 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

**■ PLP560 HISTORY OF PLANNING**

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

**■ PLP561 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

**■ PLP562 ECONOMICS OF TOWN PLANNING**

Introduction to economics. Social objectives and the role of government. The problem of negative externalities: the economic justification of the public control of development. Regional accounting, cost benefit analysis. Economics of land use; land as an economic concept, public and private costs. The real property market. Theories of land value. Land valuation theories and techniques. Land tenure: problems of compensation and recoupment of betterment. Land use controls.

**Credit Points:** 5

**Contact Hours:** 2 per week

**■ PLP564 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

### ■ PLP565 URBAN LAND DEVELOPMENT

Structural and engineering design requirements in urban development: roads and drainage, sewers, water, gas, electricity and Telecom services. The roles of statutory authorities: gas, electricity, water, telephone, public transport, railways, waterways, road construction authorities. Development teams: the roles of associated disciplines. The role of the private developer.

**Credit Points:** 3      **Contact Hours:** 1 per week

### ■ PLP566 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. Shared use of facilities. Social and welfare services. Planning and management aspects of welfare.

**Credit Points:** 5      **Contact Hours:** 2 per week

### ■ PLS102 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

### ■ PNP420 HOME ECONOMICS CURRICULUM & TEACHING STUDIES A

The subject highlights the areas of human development and social relationships; the practical skills dimensions reflected in home economics curricula in schools; the place of home economics within the current P-10 initiatives and senior schooling.

**Prerequisite:** Appropriate discipline studies in the undergraduate degree.

**Co-requisite:** EDP450

**Credit Points:** 24      **Contact Hours:** 6 per week

### ■ PNP421 HOME ECONOMICS CURRICULUM & TEACHING STUDIES B

Provides a theoretical context and considers practical applications in assessment, curriculum planning and teaching and learning strategies and examines the roles of the teacher in the community and the profession.

**Prerequisite:** PNP420

**Co-requisite:** EDP451

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ PUB109 INTRODUCTION TO ENVIRONMENTAL HEALTH

Students are introduced to a brief history of environmental health in Queensland. The current issues of environmental health within the public health agencies at all levels of government and the principal public health legislation in this state is reviewed. Students 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.

**Credit Points:** 8      **Contact Hours:** 3 per week

### ■ PUB130 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.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ PUB153 FOOD FOR KIDS

The effects of food on the development of children; food related issues explored from the point of their impact on social, emotional and cognitive as well as physical development and the implications for family and school personnel; the development of feeding autonomy in young children.

**Credit Points:** 4      **Contact Hours:** 2 per week

### ■ PUB155 CHILD SAFETY

An examination of the high percentage of childhood deaths to accidents; children as the most high-risk age group; the importance of creating an environment which reduces the risk of childhood accidents; environmental situations in which accidents are most likely to occur; prevention: falls, cuts and lacerations, electric shock, burns and scalds, poisoning, plants and animals, drowning and fire arms; application to areas such as the home, pool, road safety and the classroom.

**Credit Points:** 4      **Contact Hours:** 2 per week

### ■ PUB205 ENVIRONMENTAL HEALTH 5

The causative agents of communicable and noncommunicable diseases and conditions; the principles of and methods in epidemiology. The food hygiene foundation provided in PNB204 is further developed to encompass food poisoning and spoilage. Students 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

### ■ PUB206 ENVIRONMENTAL HEALTH 6

This subject develops 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 are addressed. Food topics are completed by considering aspects of food production and packaging and concepts of nutrition and malnutrition. Students also gain an insight into obligations, responsibilities and ethics of professional practice.

**Prerequisites:** PUB250

**Credit Points:** 30      **Contact Hours:** 16 per week

### ■ PUB207 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; development of an understanding of introductory law and environmental law, the complexity of environmental systems, the effects of pollutants on such systems and the interdisciplinary approaches needed to address these problems; aspects of professional communications and report writing.

**Credit Points:** 12      **Contact Hours:** 4 per week

### ■ PUB210 OCCUPATIONAL HEALTH & SAFETY 1

This subject introduces students to the basic concepts of occupational health and safety, such that they can identify health and safety problems in the workplace; strategies for dealing with such problems, and the legislation, government agencies and health personnel associated with the working environment. Topics covered include the physical, chemical and biological

working environments, temporal work patterns and the design and use of protective devices.

**Credit Points:** 8      **Contact Hours:** 4 per week

**■ PUB211 OCCUPATIONAL HEALTH & SAFETY 2**

This subject develops further the principles covered in PUB210 and PUB212 and highlights their practical application to the workplace. Students 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.

**Prerequisite:** PUB210 or PUB212

**Credit Points:** 8      **Contact Hours:** 4 per week

**■ PUB212 OCCUPATIONAL HEALTH AND SAFETY 1**

The basic concepts and theoretical framework of occupational health and safety as noted in PUB210. The subject also introduces students to the communication skills and devices relevant to the profession. Students participate in single and group activities to develop English expression, public speaking, debating and discussion group skills.

**Credit Points:** 12      **Contact Hours:** 4 per week

**■ PUB220 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

**■ PUB233 INFORMATION, EDUCATION AND COMMUNICATION FOR HEALTH**

A study of the processes of communication in the health fields. It covers person-to-person communication such as patient-professional communication; communication in small groups; public education for health; diffusion and adoption of new health-related behaviours; the role of information; the use of mass media; communication within health organisations.

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ PUB241 HEALTH STUDIES 1**

An overview of the nature of health in Australian society. This subject serves as the foundation study in this minor from which a number of separate, more detailed studies emerge in level 2 and 3 subjects. It is considered that an understanding of broad health issues and problems is essential to equipping health educators for their roles in promoting optimal health of Australians, viz, addressing prevention of major risk factors, and developing a commitment to promoting healthy lifestyles.

**Credit Points:** 8      **Contact Hours:** 3 per week

**■ PUB272 HOME ECONOMICS CONSUMER STUDIES**

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:** 12      **Contact Hours:** 4 per week

**■ PUB274 HOME ECONOMICS ISSUES**

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 in relations to home economics.

**Credit Points:** 12      **Contact Hours:** 4 per week

**■ PUB276 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:** 12      **Contact Hours:** 4 per week

**■ PUB299 HEALTH INFORMATION MANAGEMENT 1**

An introduction to the principles of health record management and their application in hospitals. The subject presents 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 use 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

**■ PUB300 POLLUTION SCIENCE 1**

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

**■ PUB302 PODIATRIC MEDICINE 1**

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 manifest in the foot.

**Prerequisite:** PNB220

**Co-requisite:** PUB303

**Credit Points:** 8      **Contact Hours:** 4 per week

**■ PUB303 CLINICAL SCIENCE 1**

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.

**Prerequisite:** MEB031

**Co-requisite:** PUB302

**Credit Points:** 12      **Contact Hours:** 6 per week

**■ PUB304 PHYSICAL MEDICINE**

Introduction 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 ongoing clinical studies and the theoretical component of podiatric medicine lectures.

**Prerequisite:** PNB435

**Co-requisite:** PUB504, PUB410

**Credit Points:** 8      **Contact Hours:** 3 per week

**■ PUB306 PHARMACOLOGY**

This subject is designed to ensure that students understand basic drug therapies their patients may be using, the groups of drugs used for specific diseases and their application and relevance to podiatry and clinical podiatry. Emphasis is placed on drug groups and their



use for specific disease, rather than proprietary brands. Students learn 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 is emphasised.

**Prerequisite:** CHB242 **Co-requisite:** MSB471  
**Credit Points:** 8 **Contact Hours:** 3 per week

### ■ PUB310 HOME ECONOMICS CURRICULUM & TEACHING STUDIES 1

Builds on CUB301 to give a greater understanding of the nature of home economics as an applied curriculum area. Provides insights into relevant Queensland syllabus and curriculum documents, develops competencies in planning and teaching and makes close links with teaching practice.

**Prerequisites:** CUB301 and at least 48 credit points in each relevant discipline area.  
**Credit Points:** 8 **Contact Hours:** 3 per week

### ■ PUB311 HOME ECONOMICS: CONCEPTUAL FOUNDATIONS

This subject is designed to empower future home economics teachers to make such decisions; as such the subject explores the conceptual basis of home economics. The underlying concepts are explored in depth and linked to practical application.

**Credit Points:** 8 **Contact Hours:** 3 per week

### ■ PUB313 DESIGN

Design has a relevance to both the teaching and learning process and the discipline of home economics. In the areas of textiles, food and shelter there is a role for the application of design as well as critical evaluation and communication of the products of design. This subject provides students with generic design knowledge as well as experience in the application of this knowledge in the specific areas of home economics.

**Credit Points:** 8 **Contact Hours:** 3 per week

### ■ PUB315 HOME ECONOMICS – 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:** 8 **Contact Hours:** 4 per week

### ■ PUB317 MANAGEMENT & CONSUMER STUDIES

Management and consumer issues pervade all areas of home economics. Management and consumer concepts pertinent to individual and group living leading to the optimising of well-being.

**Credit Points:** 8 **Contact Hours:** 4 per week

### ■ PUB319 FOOD & NUTRITION

Issues related to choosing a diet which will promote health; nutritional needs for humans; translating these to food selection and preparation.

**Prerequisite:** PUB315  
**Credit Points:** 12 **Contact Hours:** 6 per week

### ■ PUB320 HOME ECONOMICS CURRICULUM & TEACHING STUDIES 2

Studied in association with CUB302. Provides opportunities for consideration and practical application of broad curricular and teaching principles and systems

policies within the more specific context of this curriculum area. As with CUB302, establishes principles used to guide school experience during teaching practice and also as a beginning teacher.

**Prerequisite:** PUB310  
**Co-requisites:** CUB302, EDB302  
**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ PUB321 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.

**Prerequisite:** PUB311  
**Credit Points:** 12 **Contact Hours:** 6 per week

### ■ PUB323 HOME ECONOMICS: SOCIAL FOUNDATIONS

Home economics is concerned with the well-being of individuals and families. In order to achieve this goal, individuals must have an understanding of development from conception to old age, and a critical awareness of the social processes which influence this development. In this subject these issues are examined within the context of home economics.

**Prerequisite:** PUB311  
**Credit Points:** 8 **Contact Hours:** 3 per week

### ■ PUB325 SHELTER STUDIES

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:** PUB311  
**Credit Points:** 8 **Contact Hours:** 4 per week

### ■ PUB327 HEALTH ISSUES IN AUSTRALIA

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:** 12 **Contact Hours:** 3 per week

### ■ PUB328 CONTEMPORARY INFLUENCES ON HEALTH STATUS

The concept of contemporary social, economic and political influences on well-being. It further explores major, contemporary health concerns resulting from these influences.

**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ PUB329 FOUNDATIONS OF HEALTH STUDIES & HEALTH BEHAVIOUR

Consideration of the foundations of the discipline of health education, its theoretical framework and concepts of models of health, health education and health promotion.

**Prerequisites:** SSB922, PUB327  
**Co-requisite:** HMB305  
**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ PUB330 HOME ECONOMICS CURRICULUM & TEACHING STUDIES 3

Last in the Curriculum and Teaching Studies series with a major focus on contemporary issues and emerging trends pertaining to curriculum development in this curriculum area. Includes study of advanced planning and teaching strategies and provides opportunities for application of planning and teaching skills during practice teaching.

**Prerequisites:** PUB310, PUB320, CUB302  
**Credit Points:** 8 **Contact Hours:** 3 per week

### ■ PUB331 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.

**Credit Points:** 12      **Contact Hours:** 4 per week

### ■ PUB333 SHELTER: CULTURAL & HISTORICAL CONTEXTS

Investigation of shelter decisions based on historical and cultural factors, integrating the effect technological advances have had on this. It considers possible future shelter options given the impact of historical and cultural factors.

**Prerequisite:** PUB325

**Credit Points:** 12      **Contact Hours:** 4 per week

### ■ PUB334 FOOD FOR HEALTH

Exploration of concepts which impinge on food-related behaviours and develop concomitant cognitive competencies. Students are encouraged to recognise that their own personal pro-active stance in relation to food-related health issues can contribute to better health for all Australians.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ PUB335 OCCUPATIONAL & ENVIRONMENTAL HEALTH

Study of environmental and occupational health issues in their broadest context and their impact on individual health.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ PUB336 WOMEN'S HEALTH

Exploration of the data and health issues related to women's health and critically evaluates health-related policies, systems and practices in terms of their impact on women's health.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ PUB337 HEALTH NEEDS OF SPECIFIC POPULATIONS

The health needs of a range of specific population groups and considers the broad picture of actual differences in health status among population groups.

**Prerequisite:** PUB327

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ PUB338 SUBSTANCE USE IN CONTEMPORARY SOCIETY

An introduction to analytical models, statistical evidence and health education and health promotion strategies applicable to substance use and abuse, to familiarise students with the contemporary nature and extent of substance use in Australia and examines models and strategies to address these issues.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ PUB340 HEALTH EDUCATION CURRICULUM AND TEACHING STUDIES 1

Builds on Introduction to Curriculum and Teaching Studies to give a greater understanding of the nature of health education as an applied curriculum area. Provides insights into relevant Queensland syllabus and curriculum documents, develops competencies in

planning and teaching and makes close links with teaching practice.

**Prerequisites:** Introduction to Curriculum and Teaching Studies and at least 48 credit points in each relevant discipline area.

**Credit Points:** 8

### ■ PUB345 FAMILY RELATIONSHIPS

This subject prepares teachers for the teaching of the Family Studies component of Home Economics. Drawing from the psychological and sociological disciplines, it examines such issues as power, dominance and submission that occur in families and society. Dynamics which operate between individuals is also considered.

**Prerequisite:** PUB323

**Credit Points:** 12      **Contact Hours:** 4 per week

### ■ PUB347 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:** 12      **Contact Hours:** 4 per week

### ■ PUB349 FAMILIES & HOUSEHOLDS IN AUSTRALIA

Home economics is concerned with the well-being of individuals and families. This subject examines the emphasis of the family in home economics. A number of perspectives are considered including: structural functionalist, symbolic interactional, conflict and feminist. The question is asked whether the family provides an appropriate orientation for home economics.

**Prerequisite:** PUB349

**Credit Points:** 12      **Contact Hours:** 4 per week

### ■ PUB350 HEALTH EDUCATION CURRICULUM & TEACHING STUDIES 2

Studied in association with PUB302. Provides opportunities for consideration and practical application of broad curricular and teaching principles and policies within the more specific context of this curriculum area. As with PUB302, it establishes principles used to guide school experience during teaching practice and also as a beginning teacher.

**Prerequisite:** PUB340

**Co-requisites:** PUB302, EDB302

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ PUB353 CONSUMER FOOD

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:** 12      **Contact Hours:** 4 per week

### ■ PUB355 FOOD SERVICE: PRINCIPLES & PRACTICES

The use of relevant management principles, safe and hygienic work practices, effective communication skills, sound nutrition and mastery of techniques in food production and presentation.

**Prerequisite:** PUB319

**Credit Points:** 12      **Contact Hours:** 4 per week

## ■ PUB357 NUTRITION ISSUES IN AUSTRALIA

A background study into the nutritional issues which are impacting on the quality of Australian lives. These issues are considered in two broad frameworks: (1) the nutritional needs throughout the lifecycle and the environmental factors which impinge on realisation of these needs and (2) the aetiology, incidence, outcomes and management of diet-related disorders.

**Prerequisite:** PUB319 **Co-requisite:** PUB334  
**Credit Points:** 12 **Contact Hours:** 4 per week

## ■ PUB360 HEALTH EDUCATION CURRICULUM & TEACHING STUDIES 3

Last in the Curriculum and Teaching Studies series with a major focus on contemporary issues and emerging trends pertaining to curriculum development in this curriculum area. Includes study of advanced planning and teaching strategies and provides opportunities for application of planning and teaching skills during practice teaching.

**Prerequisites:** PUB340, PUB350, CUB302  
**Credit Points:** 8 **Contact Hours:** 3 per week

## ■ PUB361 TEXTILES 2

Continuation of PUB321. An understanding of textile consumer issues is developed by a study of relevant commercial enterprises and the implications for the consumer. Creativity is encouraged by students combining skills in pattern development with advanced techniques in constructing textile articles.

**Prerequisite:** PUB321  
**Credit Points:** 12 **Contact Hours:** 4 per week

## ■ PUB363 CONSUMER TEXTILES

Technological advances in the production of textiles with particular reference to fibres, yarns, fabric, finishing and dyeing; consumer protection legislative and regulatory framework with particular reference to textile products; 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:** PUB361  
**Credit Points:** 12 **Contact Hours:** 3 per week

## ■ PUB365 EVOLUTION OF WESTERN DRESS

Evaluation of western fashionable dress from ancient times to the present; the relationship between costume and the environment; influencing factors: social, aesthetic, political, economic, geographic, spiritual, technological; emphasis on primary sources from the nineteenth and twentieth centuries; teaching strategies and resources.

**Credit Points:** 12 **Contact Hours:** 3 per week

## ■ PUB367 MENSWEAR 1

This subject offers students an opportunity to develop expertise in the area of men's fashion design. Students implement the design process through the production of apparel items. Emphasis is placed on production techniques used in a studio environment.

**Prerequisite:** PUB321 or PUB572  
**Credit Points:** 12 **Contact Hours:** 4 per week

## ■ PUB369 TEXTILES: SUPERVISED PROJECT

Students select and complete an indepth study in one or more methods of creating with textiles. The study includes the development of advanced technical skills

and an investigation and evaluation of the corresponding commercial production.

**Prerequisite:** PUB321 or PUB572  
**Credit Points:** 12 **Contact Hours:** 3 per week

## ■ PUB372 SHELTER

Housing tenure; advantages and disadvantages of ownership/tenancy; housing finance; housing for special groups; special needs in housing; interior environment; housing heritage.

**Credit Points:** 12 **Contact Hours:** 4 per week

## ■ PUB374 FAMILY STUDIES

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:** PUB274  
**Credit Points:** 12 **Contact Hours:** 4 per week

## ■ PUB376 PRACTICUM 1

Experience in working in industry, commerce or government; placement at two different organisations each for two weeks.

## ■ PUB381 INTRODUCTION TO APPAREL DESIGN & PRODUCTION

This subject offers students an insight into the fashion industry. It also offers an opportunity for students to develop expertise in the area of women's fashion design. Students implement the design process through the production of apparel items. Emphasis is placed on production techniques used in cottage industry.

**Prerequisite:** PUB361  
**Credit Points:** 12 **Contact Hours:** 4 per week

## ■ PUB399 HEALTH INFORMATION MANAGEMENT 2

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 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:** PUB299 and PUB220  
**Credit Points:** 12 **Contact Hours:** 3 per week

## ■ PUB404 CLINICAL SCIENCE 2

At this stage students will be able to follow cases through to observe the short-term effect of therapy and are 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.

**Prerequisite:** PUB303 **Co-requisite:** PNB506  
**Credit Points:** 12 **Contact Hours:** 9 per week

## ■ PUB405 HUMAN NUTRITION 2

An extension of PUB305. 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:** 12 **Contact Hours:** 5 per week

## ■ PUB410 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 limbs, 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:** PUB503

**Credit Points:** 8 **Contact Hours:** 3 per week

### **■ PUB411 ORTHOPAEDICS**

The emphasis of this subject is on orthopaedic surgery. It seeks to develop a detailed knowledge of general and specific orthopaedic conditions which have an effect on the lower limbs and the surgical treatment of systemic conditions as seen by the podiatrist, i.e. diabetes. In addition the subject provides 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:** PUB503, PHB313

**Co-requisite:** PUB505

**Credit Points:** 8 **Contact Hours:** 3 per week

### **■ PUB412 HEALTH EDUCATION CURRICULUM PLANNING**

Analysis and application of curriculum design theory and curriculum research to health education in primary and secondary schools. A focus on a curriculum design project is supported with a situational analysis of the project setting and is evaluated in a report on the effectiveness of the process.

**Credit Points:** 12 **Contact Hours:** 3 per week

### **■ PUB414 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; and assessment procedures.

**Prerequisites:** CUB410 or equivalent plus HS2002 or equivalent (Diploma of Teaching).

**Credit Points:** 12 **Contact Hours:** 3 per week

### **■ PUB421 PODIATRIC MEDICINE 2**

The foundation for study in the role of therapeutics in patient management including short-term and long-term management of conditions. It expands 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.

**Prerequisite:** PUB302 **Co-requisite:** PUB404

**Credit Points:** 12 **Contact Hours:** 6 per week

### **■ PUB422 PODIATRIC ANAESTHESIOLOGY**

This subject is designed to provide a sound understanding of the science of anaesthetics as applicable to the practice of podiatry. Students are required to understand the pharmacology of local anaesthetics and their clinical usage, and be competent in injection techniques, including local infiltration and local nerve block in the lower limbs.

**Prerequisite:** PUB421 **Co-requisite:** PUB410

**Credit Points:** 8 **Contact Hours:** 2 per week

### **■ PUB423 FOOD AND NUTRITION**

Nutrition is an important factor in the provision of health, and in the prevention and management of many disease states. This subject provides an over-

view of concepts which are fundamental to an appreciation of the role of nutrition in health care. Topics include: the chemical nature, digestion, absorption and assimilation of nutrients; nutrients provided by the five food groups; food selection to provide a healthy diet; nutrient requirements in particular clinical situations.

**Prerequisites:** Physiology and Pharmacology

**Credit Points:** 8 **Contact Hours:** 3 per week

### **■ PUB430 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

### **■ PUB431 HEALTH CARE ECONOMICS 2**

The objective of this subject 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

### **■ PUB440 CLOTHING DESIGN**

Clothing design offers an opportunity for teachers to study in this area at a greater depth than that available in the pre-service subjects. It allows for critical evaluation of influences of the fashion industry, pattern making, clothing construction and the teaching strategies and resources available.

**Credit Points:** 12 **Contact Hours:** 3 per week

### **■ PUB441 NUTRITION EDUCATION**

Biochemical approaches to nutrition; history and evolution of nutrition; critical evaluation of popular nutrition literature; development of a philosophy of nutrition.

**Credit Points:** 12 **Contact Hours:** 3 per week

### **■ PUB472 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.

**Credit Points:** 12 **Contact Hours:** 4 per week

### **■ PUB474 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:** 12 **Contact Hours:** 6 per week

### **■ PUB476 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.

**Credit Points:** 12 **Contact Hours:** 4 per week

### **■ PUB478 FOOD SCIENCE & TECHNOLOGY**

The role 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:** 12      **Contact Hours:** 3 per week

### ■ PUB481 POLLUTION SCIENCE 2

The causes, effects, control measures, standards and legislation relating to water pollution and solid and hazardous wastes.

**Prerequisites:** CHB242, PHB250

**Credit Points:** 12      **Contact Hours:** 5 per week

### ■ PUB482 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.

**Prerequisite:** PUB211

**Co-requisites:** PUB232, MSB402

**Credit Points:** 12      **Contact Hours:** 6 per week

### ■ PUB483 HUMAN FACTORS 1

The normal structure and function of relevant systems within the human body and the ways in which the work environment can impinge on normal functions; 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.

**Prerequisite:** MEB035

**Credit Points:** 8      **Contact Hours:** 4 per week

### ■ PUB485 OCCUPATIONAL HYGIENE 1

This subject applies the practical skills students have already obtained from Chemistry 1 and 2 and Physics 1H & 2H to the field of occupational hygiene. It is intended to introduce students to the uses and limitations of a range of sampling and analytical equipment in the measurement and assessment of workplace contaminants.

**Prerequisite:** CHB242

**Credit Points:** 8      **Contact Hours:** 4 per week

### ■ PUB499 HEALTH INFORMATION MANAGEMENT 3

This subject is designed to enable students to recognise and use effectively all types of classification systems utilised for the retrieval of health information. It builds on the student experience from PUB399 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:** PUB399

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ PUB502 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 limbs. The lecture program consists 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 utilise this information in allow-

ing students the opportunity to see and diagnose many of these conditions.

**Prerequisites:** PUB410, PUB421

**Co-requisite:** PUB503

**Credit Points:** 8      **Contact Hours:** 3 per week

### ■ PUB503 PODIATRIC MEDICINE 3

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's role in the health care team across the spectrum of practice.

**Prerequisite:** PUB421

**Co-requisite:** PNB504

**Credit Points:** 8      **Contact Hours:** 3 per week

### ■ PUB504 CLINICAL SCIENCE 3

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 are also developed with the wider range of patients being treated and the specialised study of disciplines such as dermatology and radiology further integrating academic and clinical studies.

**Prerequisites:** PUB404, PUB421

**Co-requisite:** PUB304

**Credit Points:** 8      **Contact Hours:** 12 per week

### ■ PUB505 PODIATRIC SURGERY

The implementation of podiatric surgical techniques based on a strong theoretical component of knowledge. At the conclusion of this course students to understand the principles and techniques of minimal incision surgery.

**Prerequisites:** PUB422, PUB410

**Co-requisite:** PUB603

**Credit Points:** 8      **Contact Hours:** 3 per week

### ■ PUB512 HUMAN FACTORS 2

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, PUB483

**Credit Points:** 12      **Contact Hours:** 6 per week

### ■ PUB513 EPIDEMIOLOGY AND DISEASES

This subject is designed to enable students to become familiar with the terminology used in the epidemiology and the study of diseases. The subject includes the conducting of various types of study including the analysis of data in the workplace. The topics cover the causes and preventative factors of the most common non-infectious diseases, their incubation periods, modes of infection and transmission of infectious diseases, and the principles and applications of vaccination.

**Credit Points:** 12      **Contact Hours:** 6 per week

### ■ PUB516 OCCUPATIONAL HEALTH & SAFETY 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

#### ■ PUB518 FOOD HYGIENE STUDIES

The various types of food poisoning; food poisoning investigation techniques; laboratory procedures and interpretation of results.

**Prerequisites:** PNB207, PNB318, PNB418, MSB402

**Credit Points:** 8      **Contact Hours:** 4 per week

#### ■ PUB520 ENVIRONMENT HEALTH MANAGEMENT 1

The management of an environmental health unit; the various legal procedures associated with the duties of environmental health officers, and aspects of town planning.

**Prerequisites:** PUB207, PUB481

**Credit Points:** 12      **Contact Hours:** 5 per week

#### ■ PUB528 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 must 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, eg. health economics, law, 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 are undertaken in a health or medical care delivery setting, eg. hospital medical record department; group practice; local authority health department, State health department.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ PUB531 HEALTH CARE ECONOMICS 1

Application of 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

#### ■ PUB533 INTERNATIONAL HEALTH CARE SYSTEMS

The objective of this subject is to make students aware of how different countries have organised their health delivery systems. The comparisons are historical and economic. An analysis is 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 are studied. Students are 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

#### ■ PUB540 HOME ECONOMICS COUNSELLING

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.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ PUB542 ADVANCED COUNSELLING SKILLS

This subject provides the opportunity to integrate and practice understanding of the basic skills of counselling in order to increase students' understanding of the counselling process. The subject provides opportunity for students to observe and practice these basic skills. The focus of the unit is specifically on the use of these skills and theoretical concepts are examined within the context of the counselling process.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ PUB546 SOCIOLOGY OF PUBLIC HEALTH

The sociological principles and methods to deal with issues arising from the health and well-being of the community. It examines the ways in which the organisation of health care reflects particular assumptions concerning the nature of health and health work and reinforces these understandings. It explores the extent to which sociological understandings can be of value to health workers and planners.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ PUB552 SOCIAL NUTRITION

Evaluation of nutritional information; psychology of food; methods of assessing nutritional status; nutritional disorders; community, remedial and nutrition education programs.

**Prerequisite:** PUB476

**Credit Points:** 12      **Contact Hours:** 4 per week

#### ■ PUB554 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:** PUB474, PUB476

**Credit Points:** 12      **Contact Hours:** 5 per week

#### ■ PUB556 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.

**Prerequisite:** PUB474

**Credit Points:** 12      **Contact Hours:** 6 per week

#### ■ PUB560 TEXTILE MARKETING

Theories of clothing consumption; factors affecting individual and family clothing expenditure; standard sizing; pattern styling techniques; preparation of a brief.

**Prerequisite:** PUB572

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ PUB572 APPAREL DESIGN

Factors influencing garment and household goods designs; design development; yarn structure; techniques of fabric construction and decoration; the textile industry.

**Credit Points:** 12      **Contact Hours:** 5 per week

### ■ PUB574 FAMILY 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:** 12      **Contact Hours:** 3 per week

### ■ PUB576 PRACTICUM 2

Experience in working in industry, commerce or government; placement in one organisation for six weeks.

**Prerequisite:** PUB376

### ■ PUB580 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

### ■ PUB582 ADVANCED APPAREL DESIGN

The design and production of a range of apparel suitable for a specific client group for example: corporate wear; department store; large mass market. The process involves detailed research of client needs, textile specification and evaluation and costing. The subject develops to an advanced level knowledge, understanding and processes established in PUB572.

**Prerequisite:** PUB572

**Credit Points:** 12      **Contact Hours:** 5 per week

### ■ PUB585 OCCUPATIONAL HYGIENE 2

Continuation of PUB985; concentrates on the application of the principles to which the student has already been introduced. The subject extends the student's ability to recognise, evaluate and suggest the most efficient control strategies for physical and chemical hazards in the working environment. It includes an analysis of the principles and design of ventilation systems. The subject examines the elements of successful monitoring programs in the workplace.

**Prerequisites:** PUB482, MSB402, PUB485

**Credit Points:** 12      **Contact Hours:** 6 per week

### ■ PUB590 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:** 12      **Contact Hours:** 3 per week

### ■ PUB592 INDEPENDENT HOME ECONOMICS STUDY 1

Self-initiated and self-directed academic study in an area of interest consistent with the overall aims of the course.

**Credit Points:** 12      **Contact Hours:** 1 per week

### ■ PUB594 INDEPENDENT HOME ECONOMICS STUDY 2

Self-initiated and self-directed academic study in an area of interest consistent with the overall aims of the course.

**Credit Points:** 12      **Contact Hours:** 1 per week

### ■ PUB600 HEALTH MANAGEMENT 1

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).

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ PUB602 SPORTS MEDICINE

The importance of a multidisciplinary approach to the diagnosis, evaluation and treatment of sports injuries. Students study the symptomology of lower limb functional pathologies as related to specific sports and devise treatment programs. An understanding of the principles of human fitness and potential in relation to athletic injuries and expectations forms the foundation for further studies.

**Prerequisites:** PUB503, PUB410

**Co-requisite:** PNB411

**Credit Points:** 8      **Contact Hours:** 3 per week

### ■ PUB603 CLINICAL SCIENCE 4

This subject is designed to prepare the student for the transition to private practice. During this semester students are 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 are an integral part of clinical learning and sessions conclude with exchange between students and staff over case management.

**Credit Points:** 8      **Contact Hours:** 9 per week

### ■ PUB605 HEALTH MANAGEMENT 2

This subject involves a problem-solving approach to decision making and strategic management in health services administration. Case studies and projects are used to allow students to apply theory to practical situations. Specific management techniques and current health management issues are explored.

**Prerequisite:** PUB600

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ PUB610 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 are encouraged to publish these projects as original material in related professional journals.

**Credit Points:** 8      **Contact Hours:** 3 per week

### ■ PUB611 HAZARD ASSESSMENT AND MANAGEMENT

The history of accident causation theory. It provides students with a knowledge of the analytical techniques for accident prevention and develops their skills for recording, analysing and reporting accident information. The subject is also intended to enhance the students' understanding of the principles of hazardous chemicals management.

**Prerequisite:** PHB404

**Credit Points:** 12      **Contact Hours:** 6 per week

#### ■ PUB612 HEALTH PROMOTION & EDUCATION

The scope and nature of health promotion; use of resources for such activities; planning, conduct and evaluation of health promotion programs.

Prerequisite: MNB067

Credit Points: 8 Contact Hours: 3 per week

#### ■ PUB613 OCCUPATIONAL HEALTH & SAFETY PRACTICE 2

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 on these issues.

Prerequisite: PUB516

Credit Points: 8 Contact Hours: 3 per week

#### ■ PUB614 INDUSTRY SPECIALISATION

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 industry.

Prerequisites: PNB482, MEB035, PHB404

Credit Points: 8 Contact Hours: 6 per week

#### ■ PUB617 OCCUPATIONAL HEALTH & SAFETY PROJECT

Continuation of the project commenced in the subject Project 1. 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.

Credit Points: 12 Contact Hours: 6 per week

#### ■ PUB618 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

#### ■ PUB619 HEALTH INFORMATION MANAGEMENT 4

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 concentrates on nosologic problem solving, collection strategies for disease and operation indices and the practical application of classifications in health care settings.

Prerequisite: MNB519

Credit Points: 12 Contact Hours: 3 per week

#### ■ PUB620 ENVIRONMENTAL HEALTH MANAGEMENT 2

Integration of the student's 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: PUB520, PUB481

Co-requisite: PUB481

Credit Points: 12 Contact Hours: 6 per week

#### ■ PUB621 ENVIRONMENTAL HEALTH 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: PUB481, PUB520

Co-requisite: PUB620

Credit Points: 12 Contact Hours: 6 per week

#### ■ PUB622 ENVIRONMENTAL HEALTH 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: PUB520

Credit Points: 8 Contact Hours: 4 per week

#### ■ PUB631 NUTRITIONAL BIOCHEMISTRY

The digestion, absorption and metabolic assimilation of nutrients; hormonal control of metabolism; the role of drugs; genetic and environmental influences; significant parameters measured in clinical laboratories examined in a variety of health and disease states; diet and exercise for health; starvation; obesity; diabetes mellitus; cardiovascular disease; renal disease; liver disease; alcohol consumption; physiological and traumatic stress.

Prerequisite: PNB305

Credit Points: 12 Contact Hours: 5 per week

#### ■ PUB634 HEALTH SERVICES EVALUATION

This subject is a study of process evaluation, program evaluation and evaluation research with applications to the health field. 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: PUB643

Credit Points: 12 Contact Hours: 3 per week

#### ■ PUB643 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: PUB130, PUB430

Credit Points: 12 Contact Hours: 3 per week

#### ■ PUB672 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: 12 Contact Hours: 3 per week



## ■ PUB674 BUSINESS ORGANISATIONS

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.

**Credit Points:** 12      **Contact Hours:** 3 per week

## ■ PUN101 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 is selected from an introduction of ecosystems or environmental factors and human health.

**Credit Points:** 6      **Contact Hours:** 1.5 per week

## ■ PUN102 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

## ■ PUN601 CONTEMPORARY HEALTH CARE ISSUES

An examination of 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

## ■ PUN602 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

## ■ PUN608 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

## ■ PUN609 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

## ■ PUN610 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 per week

## ■ PUN611 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.

**Credit Points:** 12      **Contact Hours:** 3 per week

## ■ PUN612 ADVANCED HEALTH EVALUATION

A study of evaluation research with applications to the health fields; theory and practice; the utilisation of evaluation results and the administration of evaluation studies.

**Credit Points:** 12      **Contact Hours:** 3 per week

## ■ PUP007 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:** PUP010

**Credit Points:** 12      **Contact Hours:** 3 per week

## ■ PUP010 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:** 12      **Contact Hours:** 3 per week

## ■ PUP011 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:** PUP010

**Credit Points:** 12      **Contact Hours:** 3 per week

## ■ PUP012 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:** PUP010

**Credit Points:** 12      **Contact Hours:** 3 per week

## ■ PUP013 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.

**Prerequisite:** PUP010

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ PUP016 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:** 12      **Contact Hours:** 3 per week

#### ■ PUP017 COMMUNITY HEALTH PROGRAM PLANNING

Planning and implementing 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:** PUP016

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ PUP019 ISSUES IN HEALTH ADVANCEMENT

Consideration of healthy public policy in practice; the changing nature of the health system; contemporary issues in health advancement.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ PUP020 HEALTH PROMOTION STRATEGIES FOR DIETITIANS

Design, implementation and evaluation of health promotion strategies for dietitians. Includes case-study analysis and micro-teaching exercises.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ PUP027 INDEPENDENT STUDY

Work in an area of particular interest relating to school or community health education or health promotion.

**Credit Points:** 12

#### ■ PUP109 NUTRITION

A comprehensive study of the basic nutritional sciences building on students' backgrounds in physiology and biochemistry. Topics include: the composition of food; structure and function of nutrients; food composition databases; food commodities; factors affecting food choice; factors affecting access to food; barriers within Australia; public health nutrition; food grouping systems; dietary guidelines and the food needs of various groups in the community.

**Credit Points:** 12      **Contact Hours:** 5 per week

#### ■ PUP110 NUTRITIONAL EPIDEMIOLOGY

Statistics; validity; reliability; assessing nutritional studies; data management; interpretation of results. During the semester students have the opportunity to gather data, statistically analyse and assess the data, draw conclusions and construct a written report of the results. Students also learn to use computers to carry out basic statistical and dietary analyses.

**Credit Points:** 12      **Contact Hours:** 5 per week

#### ■ PUP115 OCCUPATIONAL HEALTH & SAFETY ADMINISTRATION I

This fundamental subject introduces students to basic concepts in occupational health and safety. They 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 is also developed.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ PUP122 PRACTICE IN CLINICAL DIETETICS

Practical experience and seminar presentations relevant to PNP120. The course is conducted in institutions off-campus (40 hours per week for 11 weeks).

**Prerequisites:** Completion of all Semester 1 and Semester 2 subjects.

**Credit Points:** 24      **Contact Hours:** 11 weeks

#### ■ PUP123 PRACTICE IN COMMUNITY NUTRITIONS

This subject enables students to gain experience of the 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 Semester 1 and Semester 2 subjects.

**Credit Points:** 12      **Contact Hours:** 4 weeks

#### ■ PUP126 CLINICAL DIETETICS I

The dietetic process; the gathering of information using dietary histories; anthropometry; biochemical indices. It builds on basic studies in nutrition; biochemistry and physiology; integrates medical, biochemical and dietary aspects of inborn errors of metabolism, energy imbalances, cardiovascular disorders and metabolic disorders. As part of the subject students are required to attend various hospitals and other locations to interact with clients and others.

**Credit Points:** 12      **Contact Hours:** 5 per week

#### ■ PUP127 CLINICAL DIETETICS 2

This is a continuation of PUP126. Topics includes: nutritional assessment; the management of disorders of the digestive and immune systems; renal disease; liver disease; paediatric disorders; nutritional support and hypermetabolic conditions. As part of the subject students are required to undertake various visits to hospitals and other locations to interact with clients and others.

**Credit Points:** 12      **Contact Hours:** 5 per week

#### ■ PUP128 PRACTICAL DIETETICS

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:** 12      **Contact Hours:** 3 per week

#### ■ PUP129 FOOD SERVICE AND DIETETIC MANAGEMENT

An introduction to the principles of management including general management theory; organising functions; leadership; staffing; management of change; marketing the profession. This is applied to food service management in terms of planning and organising food service; menu planning; kitchen design; food delivery systems; computer assistance and quality assurance. As part of this subject field trips to visit various food services are undertaken.

**Credit Points:** 12      **Contact Hours:** 5 per week

#### ■ PUP132 PRACTICE IN FOOD SERVICE MANAGEMENT

Practical experience and seminar presentations relevant to PNP137. The subject will be conducted in institutions off-campus (40 hours per week for 4 weeks).

**Prerequisites:** Completion of all Semester 1 and Semester 2 subjects.

**Credit Points:** 12      **Contact Hours:** 3 weeks

## ■ PUP215 OCCUPATIONAL HEALTH & SAFETY ADMINISTRATION 2

In this subject, students 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 are reviewed as an introduction to the study of concepts of epidemiology applicable to an occupational setting.  
**Credit Points:** 12      **Contact Hours:** 3 per week

## ■ PUP250 OCCUPATIONAL HYGIENE

A course of lectures, practical work and industrial visits to instruct students so that they may recognise, evaluate and control the physical, biological and chemical environmental factors which can adversely affect the health, safety, comfort and efficiency of workers.  
**Credit Points:** 12      **Contact Hours:** 3 per week

## ■ SBB229 SOCIAL EDUCATION

Exploration of the philosophies of social education and their relationship to the development of a personal philosophy. Past, present and contemporary syllabuses. The links between social sciences and social education. The central role of reading, research and problem solving in social education. Design and implementation of evaluative devices and techniques. Unit planning and implementation.  
**Credit Points:** 8      **Contact Hours:** 3 per week

## ■ SBB230 ENVIRONMENTAL EDUCATION

This subject is designed to assist the beginning teacher to implement the Queensland Department of Education's environmental policy in primary schools. The major goal is to develop expertise in the design and delivery of class programs and activities for children.

**Prerequisites:** SBB229, MDB228

**Credit Points:** 8      **Contact Hours:** 3 per week

## ■ SBB260 SOCIAL SCIENCES 1

Development of understandings and skills directly relevant to the needs of the P-10 social studies teachers in Queensland through the use of an integrative multi-disciplinary approach to social science education and by concentrating on developing similar key concepts and learnings which have been established as areas of national priority in schooling. This particular subject brings into focus for the primary teacher, the key concepts and issues in developing Australia as a nation and its role within the Asian-Pacific region.

**Credit Points:** 8      **Contact Hours:** 3 per week

## ■ SBB261 SOCIAL SCIENCES 2

Continuation of SBB260. Contemporary problems in the Australian, Asian and Pacific region; pedagogical issues of studying Australia and other countries in their political, cultural, geographical, and economic relationships. Students undertake an independent study of an area applied to an identified curriculum need within the P-10 social education framework.

**Prerequisite:** SBB260

**Credit Points:** 12      **Contact Hours:** 3 per week

## ■ SBB262 SOCIAL SCIENCES 3

Continuation of SBB261. An introduction to the study of futures is attempted through an analysis of principal methods and contemporary eminent contributors. Methods and models are applied to the development of futures scenarios and contemporary issues relevant to the region, eg. population and migration, political institutions and systems, resource allocation and

utilisation, sustainable development, environmental issues and structural change. Using their understandings from the above, together with suggestions from the Commission on the Future (Australia), teaching methods and techniques are developed for the P-10 curriculum.

**Prerequisite:** SBB261

**Credit Points:** 12      **Contact Hours:** 3 per week

## ■ SBB320 ENVIRONMENTAL EDUCATION

This subject is valuable to all educators concerned with communicating environmental knowledge, concepts, skills, attitudes and values in formal and informal learning situations. Students are encouraged to pursue the objectives of environmental education within their own subject specialisations.

**Credit Points:** 12      **Contact Hours:** 3 per week

## ■ SBB350 ACCOUNTING/BUSINESS MANAGEMENT CURRICULUM & TEACHING STUDIES 1

Builds on CUB301 to give a greater understanding of the nature of accounting/business management as an applied curriculum area. Provides insights into relevant Queensland syllabus and curriculum documents, develops competencies in planning and teaching and makes close links with teaching practice.

**Prerequisites:** CUB301 and at least 48 credit points in each relevant discipline area.

**Credit Points:** 8      **Contact Hours:** 3 per week

## ■ SBB351 ACCOUNTING/BUSINESS MANAGEMENT CURRICULUM & TEACHING STUDIES 2

Studied in association with CUB302. Provides opportunities for consideration and practical application of broad curricular and teaching principles and policies within the more specific context of this curriculum area. As with CUB302, establishes principles which are used to guide school experience during teaching practice and also as a beginning teacher.

**Prerequisite:** SBB350

**Co-requisites:** CUB302, EDB302

**Credit Points:** 12      **Contact Hours:** 3 per week

## ■ SBB352 ACCOUNTING/BUSINESS MANAGEMENT CURRICULUM & TEACHING STUDIES 3

Last in the Curriculum and Teaching Studies series with a major focus on contemporary issues and emerging trends pertaining to curriculum development in this curriculum area. Includes study of advanced planning and teaching strategies and provides opportunities for the application of planning and teaching skills during practice teaching.

**Prerequisites:** SBB350, SBB351, CUB302

**Credit Points:** 8      **Contact Hours:** 3 per week

## ■ SBB353 COMMUNICATION TECHNOLOGY CURRICULUM & TEACHING STUDIES 1

Builds on CUB301 to give a greater understanding of the nature of communication technology as an applied curriculum area. Provides insights into relevant Queensland syllabus and curriculum documents, develops competencies in planning and teaching and makes close links with teaching practice.

**Prerequisites:** CUB301 and at least 48 credit points in each relevant discipline area.

**Credit Points:** 8      **Contact Hours:** 3 per week

**■ SBB354 COMMUNICATION TECHNOLOGY CURRICULUM & TEACHING STUDIES 2**

Studied in association with CUB302. Provides opportunities for consideration and practical application of broad curricular and teaching principles and systems policies within the more specific context of this curriculum area. As with CUB302, establishes principles which are used to guide school experience during teaching practice and also as a beginning teacher.

**Prerequisite:** SBB353

**Co-requisites:** CUB302, EDB302

**Credit Points:** 12 **Contact Hours:** 3 per week

**■ SBB355 COMMUNICATION TECHNOLOGY CURRICULUM & TEACHING STUDIES 3**

Last in the Curriculum and Teaching Studies series with a major focus on contemporary issues and emerging trends pertaining to curriculum development in this curriculum area. Includes the study of advanced planning and teaching strategies and provides opportunities for the application of planning and teaching skills during practice teaching.

**Prerequisites:** MDB356, MDB357, CUB302

**Credit Points:** 8 **Contact Hours:** 3 per week

**■ SBB356 ECONOMICS CURRICULUM & TEACHING STUDIES 1**

Builds on CUB301 to give a greater understanding of the nature of economics as an applied curriculum area. Provides insights into relevant Queensland syllabus and curriculum documents, develops competencies in planning and teaching and makes close links with teaching practice.

**Prerequisites:** CUB301 and at least 48 credit points in each relevant discipline area.

**Credit Points:** 8 **Contact Hours:** 3 per week

**■ SBB357 ECONOMICS CURRICULUM & TEACHING STUDIES 2**

Studied in association with CUB302. Provides opportunities for consideration and practical application of broad curricular and teaching principles and policies within the more specific context of this curriculum area. As with CUB302, establishes principles which are used to guide school experience during teaching practice and also as a beginning teacher.

**Prerequisite:** SBB356

**Co-requisites:** CUB302, EDB302

**Credit Points:** 12 **Contact Hours:** 3 per week

**■ SBB358 ECONOMICS CURRICULUM & TEACHING STUDIES 3**

Last in the Curriculum and Teaching Studies series with a major focus on contemporary issues and emerging trends pertaining to curriculum development in this curriculum area. Includes the study of advanced planning and teaching strategies and provides opportunities for the application of planning and teaching skills during practice teaching.

**Prerequisites:** SBB356, SBB357, CUB302

**Credit Points:** 8 **Contact Hours:** 3 per week

**■ SBB359 GEOGRAPHY CURRICULUM & TEACHING STUDIES 1**

Builds on CUB301 to give a greater understanding of the nature of geography as an applied curriculum area. Provides insights into relevant Queensland syllabus and curriculum documents, develops competencies in planning and teaching and makes close links with teaching practice.

**Prerequisites:** CUB301 and at least 48 credit points in each relevant discipline area.

**Credit Points:** 8 **Contact Hours:** 3 per week

**■ SBB360 GEOGRAPHY CURRICULUM & TEACHING STUDIES 2**

Studied in association with CUB302. Provides opportunities for consideration and practical application of broad curricular and teaching principles and systems policies within the more specific context of this curriculum area. As with CUB302, establishes principles which are used to guide school experience during teaching practice and also as a beginning teacher.

**Prerequisite:** SBB359

**Co-requisites:** CUB302, EDB302

**Credit Points:** 12 **Contact Hours:** 3 per week

**■ SBB361 GEOGRAPHY CURRICULUM & TEACHING STUDIES 3**

Last in the Curriculum and Teaching Studies series with a major focus on contemporary issues and emerging trends pertaining to curriculum development in this curriculum area. Includes the study of advanced planning and teaching strategies and provides opportunities for the application of planning and teaching skills during practice teaching.

**Prerequisites:** SBB359, SBB360, CUB302

**Credit Points:** 8 **Contact Hours:** 3 per week

**■ SBB362 HISTORY CURRICULUM & TEACHING STUDIES 1**

Builds on CUB301 to give a greater understanding of the nature of history as an applied curriculum area. Provides insights into relevant Queensland syllabus and curriculum documents, develops competencies in planning and teaching and makes close links with teaching practice.

**Prerequisites:** CUB301 and at least 48 credit points in each relevant discipline area.

**Credit Points:** 8 **Contact Hours:** 3 per week

**■ SBB363 HISTORY CURRICULUM & TEACHING STUDIES 2**

Studied in association with CUB302. Provides opportunities for consideration and practical application of broad curricular and teaching principles and policies within the more specific context of this curriculum area. As with CUB302, establishes principles which are used to guide school experience during teaching practice and also as a beginning teacher.

**Prerequisite:** SBB362

**Co-requisites:** CUB302, EDB302

**Credit Points:** 12 **Contact Hours:** 3 per week

**■ SBB364 HISTORY CURRICULUM & TEACHING STUDIES 3**

Last in the Curriculum and Teaching Studies series with a major focus on contemporary issues and emerging trends pertaining to curriculum development in this curriculum area. Includes study of advanced planning and teaching strategies and provides opportunities for application of planning and teaching skills during practice teaching.

**Prerequisites:** PUB340, PUB350, CUB302

**Credit Points:** 8 **Contact Hours:** 3 per week

**■ SBB365 LEGAL STUDIES CURRICULUM & TEACHING STUDIES 1**

Builds on CUB301 to give a greater understanding of the nature of legal studies as an applied curriculum area. Provides insights into relevant Queensland syllabus and curriculum documents, develops competencies in planning and teaching and makes close links with teaching practice.

**Prerequisites:** CUB301 and at least 48 credit points in each relevant discipline area.

**Credit Points:** 8 **Contact Hours:** 3 per week

### ■ SBB366 LEGAL STUDIES CURRICULUM & TEACHING STUDIES 2

Studied in association with CUB302. Provides opportunities for consideration and practical application of broad curricular and teaching principles and policies within the more specific context of this curriculum area. As with CUB302, establishes principles which are used to guide school experience during teaching practice and also as a beginning teacher.

**Prerequisite:** SBB365

**Co-requisites:** CUB302, EDB302

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ SBB367 LEGAL STUDIES CURRICULUM & TEACHING STUDIES 3

Last in the Curriculum and Teaching Studies series with a major focus on contemporary issues and emerging trends pertaining to curriculum development in this curriculum area. Includes the study of advanced planning and teaching strategies and provides opportunities for the application of planning and teaching skills during practice teaching.

**Prerequisites:** SBB365, SBB366, CUB302

**Credit Points:** 8      **Contact Hours:** 3 per week

### ■ SBB368 SOCIAL SCIENCE CURRICULUM & TEACHING STUDIES 1

Builds on CUB301 to give a greater understanding of the nature of social science as an applied curriculum area. Provides insights into relevant Queensland syllabus and curriculum documents, develops competencies in planning and teaching and makes close links with teaching practice.

**Prerequisites:** CUB301 and at least 48 credit points in each relevant discipline area.

**Credit Points:** 8      **Contact Hours:** 3 per week

### ■ SBB369 SOCIAL SCIENCE CURRICULUM & TEACHING STUDIES 2

Studied in association with CUB302. Provides opportunities for consideration and practical application of broad curricular and teaching principles and systems policies within the more specific context of this curriculum area. As with CUB302, establishes principles which are used to guide school experience during teaching practice and also as a beginning teacher.

**Prerequisite:** SBB368

**Co-requisites:** CUB302, EDB302

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ SBB370 SOCIAL SCIENCE CURRICULUM & TEACHING STUDIES 3

Last in the Curriculum and Teaching Studies series with a major focus on contemporary issues and emerging trends pertaining to curriculum development in this curriculum area. Includes the study of advanced planning and teaching strategies and provides opportunities for the application of planning and teaching skills during practice teaching.

**Prerequisites:** SBB368, SBB369, CUB302

**Credit Points:** 8      **Contact Hours:** 3 per week

### ■ SBB410 CONSUMER EDUCATION

Preparation of teachers to teach consumer education at various school levels either as a subject in its own right or as aspects of consumer education within other disciplines. Topics include: consumer education in the school curriculum; content in consumer education; teaching consumer education; curriculum development and innovation.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ SBB411 SOCIAL EDUCATION CURRICULUM DEVELOPMENT

This subject is designed for teachers who wish to specialise in curriculum planning in primary social studies, secondary economics, history, geography or social science, or TAFE liberal studies. Students explore recent curriculum movements in social education and relevant curriculum development projects. The subject provides advanced skills for planning a teaching subject and a work program.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ SBB412 SOCIAL EDUCATION IN THE CURRICULUM

This subject provides opportunities for teachers of social education at all levels to investigate key issues and debates about social education and to refine their own purpose as social educators. The subject focuses on global challenges to social educators, the debate over the purposes and structure of social education, the place of critical thinking in the curriculum and the implications of the current P-10 initiative in Queensland.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ SBB413 LEGAL STUDIES APPLIED CURRICULUM

This subject is for secondary teachers of legal studies (or intending teachers) who have no formal curriculum training in legal studies. The nature of legal studies within the school curriculum; current teaching strategies; the socio-critical approach; program planning and applications; curriculum innovation and development.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ SBB440 ENVIRONMENTAL EDUCATION

This subject is valuable to all educators concerned with communicating environmental knowledge, concepts, skills, attitudes and values in formal and informal learning situations. Students are encouraged to pursue the objectives of environmental education within their own subject specialisations.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ SBB441 ADVANCED SECRETARIAL STUDIES

This subject extends the professional education of teachers of secretarial studies. It focuses on the concepts and applications of office automation, the issues and implications of the implementation of technology in business organisations, and the importance of supervision and administrative practices to business organisations.

**Prerequisite:** Major in Commercial Studies or equivalent at Diploma of Teaching level.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ SBN601 SOCIAL & ENVIRONMENTAL EDUCATION 1

An examination of the origins, development, and current scope and status of social and environmental education both as separate entities and as a unified emphasis on current social, environmental, political and economic imperatives. The importance of studies within the subject disciplines of geography, history and economics are also examined.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ SBN602 SOCIAL & ENVIRONMENTAL EDUCATION 2

Exploration of the relative strengths and weaknesses of discipline-based and interdisciplinary approaches to social and environmental education through

detailed studies of the actual and potential contributions to social and environmental education of one of geography, history and economics, and identifying specific areas of interest within social and environmental education to explore in more detail in a dissertation.

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ SBP420 BUSINESS EDUCATION CURRICULUM & TEACHING STUDIES A

A foundation study for students wishing to teach any of the business education subjects: accounting/business management, economics, legal studies and office administration. An examination of basic teaching skills, the interactive classroom, student learning, learning environments and curriculum implications for, and applications to business education.

**Prerequisite:** Appropriate discipline studies in the undergraduate degree.

**Co-requisite:** EDP450

**Credit Points:** 24 **Contact Hours:** 6 per week

#### ■ SBP421 ACCOUNTING & BUSINESS MANAGEMENT CURRICULUM & TEACHING STUDIES B

Provides a theoretical context and considers practical applications in assessment, curriculum planning and teaching and learning strategies and examines the roles of the teacher in the community and the profession.

**Prerequisite:** SBP420

**Co-requisite:** EDP451

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ SBP422 ECONOMICS CURRICULUM & TEACHING STUDIES B

Provides a theoretical context and considers practical applications in assessment, curriculum planning and teaching and learning strategies and examines the roles of the teacher in the community and the profession.

**Prerequisite:** SBP420

**Co-requisite:** EDP451

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ SBP423 LEGAL STUDIES CURRICULUM & TEACHING STUDIES B

This Curriculum B subject provides opportunities for students to critically examine and develop skills and understanding in significant areas of teaching and learning in legal studies. It provides a theoretical context and considers practical applications in assessment, curriculum planning and teaching and learning strategies and examines the roles of the teacher in the community and the profession.

**Prerequisite:** SBP420 **Co-requisite:** EDP451

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ SBP424 OFFICE AUTOMATION CURRICULUM & TEACHING STUDIES B

Provides a theoretical context and considers practical applications in assessment, curriculum planning and teaching and learning strategies and examines the roles of the teacher in the community and the profession.

**Prerequisite:** SBP420 **Co-requisite:** EDP451

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ SBP430 SOCIAL SCIENCE CURRICULUM & TEACHING STUDIES A

Introduction to the general field of social science education; the various ways in which the social sciences are reflected in curricula, ranging from discipline-based studies to fully integrated approaches; the complexity of factors influencing

curriculum development in the social sciences. Where appropriate, these studies are based on observations and experiences within school settings. These settings also provide the context for the development of teaching approaches appropriate to the social sciences. Students become familiar with processes of curriculum development, and gain experience of those processes, particularly as they apply to the current P-10 social education initiative in Queensland.

**Prerequisite:** Appropriate discipline studies in the undergraduate degree.

**Co-requisite:** EDP450

**Credit Points:** 24 **Contact Hours:** 6 per week

#### ■ SBP431 GEOGRAPHY CURRICULUM & TEACHING STUDIES B

Provides a theoretical context and considers practical applications in assessment, curriculum planning and teaching and learning strategies and examines the roles of the teacher in the community and the profession.

**Prerequisite:** SBP430 **Co-requisite:** EDP451

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ SBP432 HISTORY CURRICULUM & TEACHING STUDIES B

This Curriculum B subject provides opportunities for students to critically examine and develop skills and understanding in significant areas of teaching and learning in history. It provides a theoretical context and considers practical applications in assessment, curriculum planning and teaching and learning strategies and examines the roles of the teacher in the community and the profession.

**Prerequisite:** SBP430 **Co-requisite:** EDP451

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ SBP433 JUNIOR SOCIAL SCIENCE CURRICULUM & TEACHING STUDIES C

This Curriculum C subject offers studies which enables appropriately qualified students to teach junior social science at lower levels of the secondary school. It allows the application of principles, skills and understandings which have been developed in the Curriculum A subject and are being expanded in the Curriculum B subject.

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ SBP500 CURRICULUM ISSUES IN ENVIRONMENTAL EDUCATION 1

The nature of environmental education, environmental ethics; the theoretical and practical appreciation of the issues and problems facing environmental education curriculum planners.

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ SBP501 CURRICULUM ISSUES IN ENVIRONMENTAL EDUCATION 2

A theoretical appreciation of, and practical exposure to, the design of environmental teaching experiences in formal and non-formal settings within subject areas. The subject builds upon the knowledge and ideas developed in SBP500.

**Prerequisite:** SBP500

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ SBP502 ETHICS & ECONOMICS IN ENVIRONMENTAL EDUCATION

Development of an understanding of the nature of environmental economics and different philosophies, ideologies and cultural views towards the environment; development of teaching strategies and resources suitable for teaching environmental economics and ethics.

**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ SBP503 NATURAL ENVIRONMENTAL EDUCATION ISSUES

The relationship between human beings and their natural environment; the historical development of environmental ethics; studies of current human impacts on vegetation, animal life, soils, waters, geomorphological processes and climate and the implications of these for current notions of sustainability.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ SBP504 PRACTICAL & FIELDWORK IN ENVIRONMENTAL EDUCATION

Development of a range of practical and technological skills and a variety of field-based experiences to enable students to reflect on and refine their attitudes and perceptions about environmental education. Studies include rural and urban field activities.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ SBP505 SOCIAL ENVIRONMENTAL EDUCATION ISSUES

Development of an understanding of people's responses to their urban environment; opportunities for decision making about the effective and sustainable use of urban environments; strategies to promote effective educational practices in the urban environment.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ SCB001 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 are 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. Students also develop skills in information retrieval using the University Library facilities.

**Credit Points:** 2      **Contact Hours:** 1 per week

### ■ SCB100 COOPERATIVE EDUCATION 2

Ten to 12 months placement in paid employment related to their course, in a commercial environment under the joint supervision of an industry supervisor and an academic adviser. An academic adviser obtains reports from the student and his or her work supervisor at regular intervals. The student is required to complete a progressive assessment program. The student's results are 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

### ■ SCB222 EXPLORATION OF THE UNIVERSE

Introduction to optical observational astronomy; instrumentation; celestial sphere and astronomical coordinates, observations of constellations, stars, planets, clusters and other interesting celestial objects. Theory: description of the solar system, gravitation, phenomena of astronomical origin, brief introduction to stars and galaxies. Field trip.

**Credit Points:** 12      **Contact Hours:** 4 per week

### ■ SCB510 INTRODUCTION TO QUALITY MANAGEMENT

The philosophies, practices and tools of quality management; organisational structures; quality systems; total quality management; measurement and role of statistical methods.

**Prerequisites:** SCB100 and (MAB237 or MAB347)

**Credit Points:** 8      **Contact Hours:** 3 per week

### ■ SCB702 COMPLEMENTARY STUDIES

The subject 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 School. Assessed on a pass/fail basis.

**Credit Points:** 8 per semester

**Contact Hours:** 6 per week

### ■ SCB703 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 SCB703 or SCB704, not both.

**Credit Points:** 9      **Contact Hours:** 3 per week

### ■ SCB704 STUDIES IN GLOBAL SYSTEMS B

See SCB703.

**Credit Points:** 6      **Contact Hours:** 2 per week

### ■ SCB705 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 positive), thin sectioning, critical point drying/freeze drying, replica production, sputter coating and metal shadowing. Each technique is applied to a range of specimens and students are 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

### ■ SSB000 STUDIES IN AUSTRALIAN SOCIETY I

Introduction to the nature of contemporary Australian society from a sociological perspective. The basic elements of the social structure (class, race & gender) are explored and selected social institutions described (eg. the family, work). Skills in analysing social processes at regional, state & national level are introduced.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ SSB001 HUMAN DEVELOPMENT I

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:** 12      **Contact Hours:** 3 per week

■ **SSB002 STUDIES IN HUMAN RIGHTS 1**

Analysis of the sources and history of the idea of human rights. Exploration of the human rights traditions in non-Western and cross-cultural contexts. Examination of the International Bill of Rights. Emphasis is placed on defining political, civil, economic, social and cultural rights and applying such definitions to situations and institutions in Australia and Queensland.

**Credit Points:** 12      **Contact Hours:** 3 per week

■ **SSB003 INTERPERSONAL PSYCHOLOGY 1**

The inductive learning approach; models of interpersonal communication and perception; the concept of self and self-esteem; dealing with emotions – defensiveness versus openness; communication skills; questioning, attending and responding; non-verbal communication; attitudes and value clarification; self disclosure; development of relationships.

**Credit Points:** 12      **Contact Hours:** 3 per week

■ **SSB004 STUDIES IN AUSTRALIAN SOCIETY 2**

The theoretical perspectives in sociology on social inequality are explored and discussed. The major system institutions of Australian society are assessed in relation to their contribution to or attempts to address inequality (eg. the political system, education system, legal system, health system). The role of ideology in distorting reality is introduced.

**Prerequisite:** SSB000

**Credit Points:** 12      **Contact Hours:** 3 per week

■ **SSB005 HUMAN DEVELOPMENT 2**

Adult life and transitions; theories of adulthood; models of ageing services; human empowerment.

**Prerequisite:** SSB001

**Credit Points:** 12      **Contact Hours:** 3 per week

■ **SSB006 STUDIES IN HUMAN RIGHTS 2**

Analysis of broad-based human rights issues including discrimination, equal opportunity, sexism and racism. Specific human rights concerns such as aboriginal land rights and aboriginal deaths in custody are explored. Particular human service contexts are assessed in terms of international and domestic human rights instruments and standards.

**Prerequisite:** SSB002

**Credit Points:** 12      **Contact Hours:** 3 per week

■ **SSB007 INTERPERSONAL PSYCHOLOGY 2**

More complex communication skills and understandings; awareness and skills with regard to social style, assertion, confrontation and other influencing skills; conflict, stress and burnout; gender and cross-cultural issues in communication; interviewing skills.

**Prerequisite:** SSB003

**Credit Points:** 12      **Contact Hours:** 3 per week

■ **SSB008 COUNSELLING THEORY & PRACTICE**

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; group counselling; change processes in counselling; sociological analysis of the role and function of counselling.

**Prerequisites:** SSB003, SSB007

**Credit Points:** 12      **Contact Hours:** 3 per week

■ **SSB009 THE AUSTRALIAN WELFARE STATE**

The origins of and the contemporary nature of the Australian welfare state; historical data on the antecedents to and stages of welfare state development; the major debates and controversies; an overview of the structural arrangements of the Australian welfare state.

**Credit Points:** 12      **Contact Hours:** 3 per week

■ **SSB010 PROFESSIONAL RESOURCES 1**

Resources and consumer needs; government systems; non-government systems; the family as a resource; issues of access to resources; appeal and grievance mechanisms; specific resource networks.

**Credit Points:** 12      **Contact Hours:** 3 per week

■ **SSB011 CHILD & FAMILY SERVICES 1**

The history of child and family services in Australia; an overview of the major service agencies and child and family problems; the family life cycle; the needs and rights of children and families; professional ethics and standards.

**Credit Points:** 12      **Contact Hours:** 3 per week

■ **SSB012 DISABILITY SERVICES 1**

History and attitudes to disability; impact of disability upon individuals and their families; review of the principles and theoretical frameworks: normalisation, social role valorisation, etc. which underpin services. Planning around individuals; personal futures planning.

**Credit Points:** 12      **Contact Hours:** 3 per week

■ **SSB013 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:** 12      **Contact Hours:** 3 per week

■ **SSB014 AGED SERVICES 1**

Physiological, psychological, social and cultural aspects of ageing; common transitions and crises faced by the aged person, carers and families; modes of adaption and maladaption, learned helplessness in institutional life, understanding dementias, communication with and counselling of the elderly.

**Credit Points:** 12      **Contact Hours:** 3 per week

■ **SSB015 MULTICULTURAL SERVICES 1**

Orientation to the context, options and difficulties associated with the human service programs for a multicultural Australia; introduction to the policies, concepts and issues surrounding multicultural services; the experiences of immigration and resettlement.

**Credit Points:** 12      **Contact Hours:** 3 per week

■ **SSB016 YOUTH SERVICES 1**

The development and character of youth services in Australia; outline of a framework for reflective youth-work practice; youth services relating to labour market housing, juvenile justice, education, health and young people in the context of families; contemporary practice and policy issues identified through field enquiry and examination of relevant literature.

**Credit Points:** 12      **Contact Hours:** 3 per week

■ **SSB017 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.  
**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ SSB019 PROFESSIONAL RESOURCES 2

Statistics and service planning, electronic data gathering and dissemination methods; specific resource networks; evaluation of resource systems; access to resources; appeal and grievance mechanisms.

**Prerequisite:** SSB010

**Credit Points:** 12      **Contact Hours:** 4 per week

### ■ SSB020 CHILD & FAMILY SERVICES 2

The service framework and the nature of child and family service assessments and interventions in child protection work, alternative care, domestic violence, sexual abuse, divorce, juvenile justice. Refining interpersonal and group work skills necessary to promote effective client-worker relationships.

**Prerequisite:** SSB011

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ SSB021 DISABILITY SERVICES 2

Major life domains of home, work, education, leisure, relationships as they relate to people with a disability. Contemporary service responses to these life domains. Impact of specific disabling conditions: intellectual, physical, sensory and psychiatric.

**Prerequisite:** SSB012

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ SSB022 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.

**Prerequisite:** SSB013

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ SSB023 AGED SERVICES 2

Services available to the aged within the community and institutions; planning, implementing and evaluating needs-based services, assessment skills; policy issues and the HACC program; specific responses to the migrant, aborigines and the elderly poor.

**Prerequisite:** SSB014

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ SSB024 MULTICULTURAL SERVICES 2

The characteristics and circumstances of Australia's ethnic minorities and their implications in the use of welfare intervention techniques. The needs and issues of specific interest groups are explored. The subject promotes cultural sensitivity by exploring the social mores of Australia's ethnic minorities.

**Prerequisite:** SSB015

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ SSB025 YOUTH SERVICES 2

The cultural, gender and locational differences in the experience of young people as described through various forms of social commentary and research; current and emerging intervention strategies; their assumptions, strengths and limitations.

**Prerequisite:** SSB016

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ SSB026 FIELDWORK PRACTICE 1

A three-stage program of pre-placement tutorials, a ten-week block placement (or negotiated equivalent) in a human service setting offering a professionally

supervised, contracted learning experience of human service work, and post-placement tutorials. Students acquire and integrate critical human service competencies, attitudes and knowledge. **Note:** Students who fail to achieve a satisfactory standard of performance on placement are liable to exclusion from the course.

**Prerequisites:** Enrolment in the Bachelor of Social Science (Human Services). All preceding subjects are prerequisites/co-requisites at the discretion of the Course Coordinator and Field Education Coordinator.

### ■ SSB027 COMMUNITY WORK

Community work as a distinct intervention skill; the background to community work in Australia; models of community work; basic skills and techniques are developed: entering a community; building community involvement; developing community action; managing common problems.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ SSB028 STUDIES IN AUSTRALIAN SOCIETY 3

Introduction to the Australian Constitution and Federal system of government; examination of major Australian political institutions including Parliament and the Cabinet; analysis of the role of the judiciary and the funding and role of the public service; exploration of the electoral and industrial systems; examination of the role and structure of political parties.

**Prerequisite:** SSB004

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ SSB030 CHILD & FAMILY SERVICES 3

The Commonwealth and State legislation underpinning Child and Family Services in Queensland; models of intervention; development of service delivery skills; contemporary service philosophies and principles; interface between legislative power and facilitative helping.

**Prerequisite:** SSB020

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ SSB031 DISABILITY SERVICES 3

Policies, legislation and programs which impact upon people with a disability reviewed at Federal, State and Local government levels; analysis of international influences on the Australian scene; policy areas on disability, income maintenance, housing, education, transport, employment, etc.

**Prerequisite:** SSB021

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ SSB032 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.

**Prerequisite:** SSB022

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ SSB033 AGED SERVICES 3

International and national trends in aged care; the use of technology to improve quality of life, administration and the creation of a humane environment; elementary accounting and budget control skills program design; the involvement of the consumer, the aged service system in the wider community welfare environment.

**Prerequisite:** SSB023

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ SSB034 MULTICULTURAL SERVICES 3

Development of the ability to critically evaluate Australia's social institutions for their relevance and fairness to ethnic minorities; exploration of contemporary principles which direct service delivery as they relate to ethnic minorities; evaluation of current methods employed to promote these principles.

**Prerequisite:** SSB024

**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ SSB035 YOUTH SERVICES 3

The nature and implications of youth work within various contexts; different settings, eg. statutory and non-statutory, government and non-government; how each contributes or might contribute to individual, organisational and social objectives; skills and knowledge of particular relevance to these various settings.

**Prerequisite:** SSB025

**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ SSB036 FIELDWORK PRACTICE 2

A three-stage program of pre-placement tutorials, a ten week block placement (or negotiated equivalent) in a human service setting offering a professionally supervised, contracted learning experience of human service work, and post-placement tutorials. Students consolidate and extend critical human service competencies, attitudes and knowledge. **Note:** Students who fail to achieve a satisfactory standard of performance on placement are liable to exclusion from the course.

**Prerequisites:** Enrolment in the Bachelor of Social Science (Human Services). All preceding subjects are prerequisites/co-requisites at the discretion of the Course Coordinator and Field Education Coordinator.

### ■ SSB037 STUDIES IN HUMAN RIGHTS 3

Examination of Federal and State institutional arrangements designed to protect and promote fundamental human rights; emphasis on understanding and operationalising legislative and administrative systems which have a particular relevance for the human rights of consumers within human service contexts.

**Prerequisite:** SSB006

**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ SSB038 SOCIAL POLICY & SOCIAL CHANGE

Theoretical approaches to social change; assessment of social policy as a tool of social change generally and within Australian context; skills and techniques of applying models of social policy and program development and implementation as part of a change strategy.

**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ SSB039 CONTEMPORARY SOCIAL POLICIES

The major debates in social policy; analysis of the manner in which Australia has resolved these and the impact on our welfare state; contemporary movements by governments and effects on broad approaches to social policy; current status of major policy areas, eg. health, income security, housing.

**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ SSB040 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.

**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ SSB041 DISABILITY SERVICES 4

Program planning, service design; coordination of services, sources of funding; advocacy, self-advocacy, group advocacy, citizen advocacy; independent study.

**Prerequisite:** SSB031

**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ SSB042 CORRECTIVE SERVICES 4

Punishment versus rehabilitation; correctional options; traditional treatment programs; experimental treatment programs; traditional prison management; modern prison management; contemporary community issues; independent study.

**Prerequisite:** SSB032

**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ SSB043 AGED SERVICES 4

An individual project is negotiated between the lecturer and student and is completed under supervision. The project is to encompass service delivery issues and include how work with the aged fits in with the wider Australian context. Specific attention is to be given to service philosophy.

**Prerequisite:** SSB033

**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ SSB044 MULTICULTURAL SERVICES 4

The general and specific service provision systems targeted towards ethnic minorities in Australia. Students develop organisational change skills and policy analysis and development skills which they apply to a specific social program, service or policy issue.

**Prerequisite:** SSB034

**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ SSB045 YOUTH SERVICES 4

Critical reflection of practice issues that emerged for students during the second field education subject. Skills and knowledge areas are identified for attention. As an outcome of the subject, students identify, document and critique a professional frame of reference and code of ethics for youth work practice.

**Prerequisite:** SSB035

**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ SSB101 ENVIRONMENTAL EDUCATION

The nature of environmental education; environmental concept development of young learners; methods of teaching environmental knowledge, concepts, attitudes and behaviour; and the use of fieldwork, interpretive centres and museums in environmental education programs.

**Credit Points:** 8 **Contact Hours:** 2 per week

### ■ SSB802 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

### ■ SSB803 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.

**Credit Points:** 10 **Contact Hours:** 3 per week

### ■ SSB805 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:** 12      **Contact Hours:** 4 per week

### ■ SSB806 INTERPERSONAL & GROUP PROCESSES

Understanding relationships and small group dynamics with emphasis on skill development in listening, helpful responding, assertion, conflict resolution, disclosure, feedback; models of group development and roles lead to facilitation and leadership skills. Skills are applied and analysed outside the class group.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ SSB807 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 student's own development; the sexual development of adolescents; issues of social concern such as sexual abuse of children.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ SSB816 HUMAN RELATIONSHIPS: A SOCIOLOGICAL PERSPECTIVE

The significance of the 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:** 12      **Contact Hours:** 4 per week

### ■ SSB903 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

### ■ SSB904 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:** SSB903

**Credit Points:** 6      **Contact Hours:** 3 per week

### ■ SSB905 PSYCHOLOGY FOR HEALTH PROFESSIONALS

This subject presents particular aspects of the theories, skills and approaches of interpersonal, social and organisational psychology which are relevant to nursing practice. Topics include: humanistic, cognitive, behavioural and social models for understanding the individual; communication processes; self-concept and self-esteem; protection of the ego; the impact of emotions and beliefs on health behaviour; and interpersonal communication skills.

**Credit Points:** 8      **Contact Hours:** 3 per week

### ■ SSB906 SOCIOLOGY FOR HEALTH PROFESSIONALS

Sociological theories and methods are investigated and subsequently used to identify and analyse social relationships, social processes and social patterns relating to the social origins of illness and wellness. Analysis is undertaken into trends in morbidity and mortality in society which are not randomly distributed but associated with social structural variables such as ethnicity, gender, social class, age and geographical location. The health care system is examined internally and in relation to its utilisation by the public and its effectiveness in addressing contemporary health issues in Australia.

**Credit Points:** 8      **Contact Hours:** 3 per week

### ■ SSB907 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

### ■ SSB908 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 are 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 are introduced to employee selection training, appraising and promotion. Worker efficiency and working conditions.

**Credit Points:** 6      **Contact Hours:** 3 per week

### ■ SSB909 PSYCHOLOGY

Students 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 people to misperceive others, and explain how to minimise misperception; 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 necessary for starting a successful small business.

**Credit Points:** 6      **Contact Hours:** 3 per week

### ■ SSB910 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

### ■ SSB911 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

### ■ SSB914 PSYCHOLOGY

In studying this subject, students are 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

### ■ SSB916 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

### ■ SSB918 COUNSELLING FOR HEALTH PROFESSIONALS

A study of the psychology of illness and the counselling process.  
**Credit Points:** 4      **Contact Hours:** 2 per week

### ■ SSB922 SOCIAL & CULTURAL ASPECTS OF HEALTH

A broad overview of the key theoretical and practical questions currently being addressed in the field of the sociology of health and illness and provides a framework for individuals wishing to develop professional skills in school health education.  
**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ SSP000 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; defensiveness; conflict; stress; gender issues.  
**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ SSP001 THEORY & PRACTICE OF COUNSELLING I

Overview of the counselling process; role of the major theories in counselling; micro-counselling skills; general philosophical assumptions in counselling; humanistic approaches: client-centred, Gestalt, TA); existential model. A four-day intensive practicum workshop of microskills development is a compulsory component.  
**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ SSP003 COUNSELLING & HUMAN DEVELOPMENT

Major theoretical approaches to human development; age/stage perspectives; life event and transition perspectives; individual variability perspectives; nature of research in developmental psychology; psychological transitions in the life-span; relevance of developmental theories and concepts to personal development and need; psychopathology and the life cycle.  
**Prerequisite:** SSP001  
**Credit Points:** 8      **Contact Hours:** 3 per week

### ■ SSP004 THEORY & PRACTICE OF COUNSELLING 2

Change processes in counselling from a brief therapy or solution-focused perspective; emphasis on the viewing, doing and language of problems and on the narrative metaphor for counselling.  
**Prerequisite:** SSP001  
**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ SSP005 PRACTICUM 2

Advanced skill training workshops; supervised counselling experience involving work with clients; interaction of students and supervisor.  
**Prerequisite:** SSP001      **Co-requisite:** SSP007  
**Credit Points:** 8

### ■ SSP006 COUNSELLING: A SOCIOLOGICAL PERSPECTIVE

Sociological analysis of counselling and the helping process in terms of the functions they serve for society; 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:** SSP001  
**Credit Points:** 8      **Contact Hours:** 3 per week

### ■ SSP007 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.  
**Prerequisite:** SSP004      **Co-requisite:** SSP005  
**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ SSP009 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:** 8      **Contact Hours:** 3 per week

### ■ SSP012 THE COUNSELLOR & THE ORGANISATION

Helping organisations as bureaucracies; organisational response to social change; stress within helping organisations; teamwork among professional helpers; counsellor roles.  
**Prerequisite:** SSP001  
**Credit Points:** 8      **Contact Hours:** 3 per week

### ■ SSP013 INDEPENDENT STUDY

Independent counselling-related studies under the supervision of a member of staff. Studies must be approved by the course coordinator.  
**Prerequisite:** SSP007  
**Credit Points:** 8      **Contact Hours:** 3 per week

### ■ SSP014 FAMILY THERAPY I

Self-awareness in family counselling; formation and models of the family; family systems perspectives and counselling approaches.  
**Prerequisite:** SSP007  
**Credit Points:** 8      **Contact Hours:** 3 per week

### ■ SSP016 ADVANCED PRACTICUM

Further supervision of counselling work using a group process and a focus on student's work context, personal issues and professional side.  
**Prerequisite:** SSP005  
**Credit Points:** 8

## ■ SSP017 COUNSELLING IN GROUPS

Organising and facilitating group work; establishing group norms; stages of group development; member behaviour and facilitator interventions; models and ethics of group work.

**Credit Points:** 8      **Contact Hours:** 3 per week

## ■ SSP543 HEALTH PSYCHOLOGY

Current theories and developments of behavioural approaches in health care, including current learning and psychological theories pertinent to health education practices.

**Credit Points:** 12      **Contact Hours:** 3 per week

## ■ SSP800 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 the framework to selected organisations.

**Credit Points:** 12      **Contact Hours:** 3 per week

## ■ SSP801 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.

**Prerequisite:** SSP800

**Credit Points:** 12      **Contact Hours:** 3 per week

## ■ SSP802 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 aspects. Development of appropriate management skills in community-based service programs.

**Credit Points:** 12      **Contact Hours:** 3 per week

## ■ SSP850 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.

**Credit Points:** 12      **Contact Hours:** 3 per week

## ■ SSP854 HUMAN SEXUALITY & RELATIONSHIPS

Sexual behaviour and the life cycle; sexual health and reproduction; sex and society.

**Credit Points:** 12      **Contact Hours:** 3 per week

## ■ 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 systems, 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

## ■ SVB111 DATA PRESENTATION 1

Drafting instruments and techniques; introductory survey drafting; introductory engineering drawing.

**Co-requisite:** SVB121

**Credit Points:** 6      **Contact Hours:** 3 per week

## ■ SVB121 LAND SURVEYING 1

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 1

At least six weeks employment, approved by the Head of School. Students must submit an industrial experience record form, completed by both student and employer.

**Contact Hours:** 6 weeks

## ■ SVB203 PROJECT SURVEY

Two surveys of a building site; chain survey with reduced levels taken on a grid; survey done by theodolite traverse.

**Prerequisite:** SVB101

**Credit Points:** 4      **Contact Hours:** 2 per week

## ■ SVB211 DATA PRESENTATION 2

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 2A

Developing drafting skills; introduction to engineering survey drafting and computer graphics.

**Prerequisite:** SVB111

**Co-requisite:** SVB226

**Credit Points:** 2      **Contact Hours:** 1 per week

## ■ SVB226 LAND SURVEYING 2

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 1

Introduction to 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 1

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 2

At least six weeks employment, approved by the Head of School. Students must submit an industrial ex-

perience record form, completed by both student and employer.

**Contact Hours:** 6 weeks

### ■ SVB306 SURVEYING

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 3

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 1

Review of relevant statistical concepts; theory of observations and of random errors; linear and nonlinear functional models, the 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 1

Introduction to photogrammetry; photogrammetric optics; aerial photography; geometry and use of single photographs; geometry and use of stereogram; half-day visit to an aerial survey/mapping organisation.

**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:** 3 per semester

**Contact Hours:** 6 per week

### ■ SVB393 LAND SURVEYING 3

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 3

At least six weeks employment, approved by the Head of School. Students must submit an industrial experience record form, completed by both student and employer.

**Contact Hours:** 6 weeks

### ■ 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 4

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 & ADJUSTMENT 2

Introduction to least squares adjustment; standard problems 1 and 2; 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 2

Principles of construction; operation of analogue stereoplotters; aerial triangulation; terrestrial photogrammetry; analytical photogrammetry; half-day visit to an aerial survey/mapping organisation.

**Prerequisites:** SVB343, MAB795

**Co-requisite:** SVB431

**Credit Points:** 11 **Contact Hours:** 6 per week

### ■ SVB451 LAND STUDIES B

Introduction to theory of price; location theory; land economics.

**Credit Points:** 5 **Contact Hours:** 3 per week

### ■ SVB470 LAND ADMINISTRATION 2

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 1

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 5

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 1

Land development as an economic activity; surveys for subdivision design; site planning; land use determinants; political, economic, social and physical; traffic aspects affecting subdivision design; case studies.

**Prerequisites:** SVB352, SVB451

**Co-requisites:** CEB364, SVB551, SVB574

**Credit Points:** 10 **Contact Hours:** 6 per week

## ■ SVB563 LAND INFORMATION SYSTEMS 2

Data acquisition, storage and management; spatial identifiers; cartographic display and generalisation in automated systems; 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 3

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 4

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 6

Geophysical surveying; mine surveying; field astronomical observation.

**Prerequisites:** PHB170, SVB430  
**Credit Points:** 6 **Contact Hours:** 3 per week

## ■ SVB639 OBSERVATIONS & ADJUSTMENT 3

Design, pre-analysis and optimisation followed by execution, adjustment and assessment of horizontal (2 dimensional) control networks, traverse and level networks (1 dimensional).

**Prerequisite:** SVB431  
**Credit Points:** 4 **Contact Hours:** 2 per week

## ■ SVB640 GEODESY

Introduction to history; definitions; gravity field of earth; level surfaces; spherical harmonics; variations of the gravity field; gravity measurements; geodetic reference systems; datum transformations; satellite geodesy; satellite doppler surveying; global positioning system; inertial surveying systems; geodynamics.

**Prerequisites:** MEB221, PHB170, SVB430, SVB442  
**Co-requisite:** SVB639

**Credit Points:** 6 **Contact Hours:** 3 per week

## ■ SVB643 PHOTOGRAMMETRY 3

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; 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 2

Preliminaries of development, data assembly, statutory approvals, elements of design, requirements of communication, hydraulic and energy services, development costs, controls of land development schemes; neighbourhood, residential, industrial estate, canal and reclamation estates, commercial and rural development schemes; design of small towns.

**Prerequisites:** SVB561, SVB574  
**Credit Points:** 10 **Contact Hours:** 6 per week

## ■ SVB670 LAND ADMINISTRATION 5

Organisation theory; development planning procedures; land development analysis.

**Prerequisites:** SVB470, SVB451  
**Credit Points:** 5 **Contact Hours:** 3 per week

## ■ SVB680 PROFESSIONAL PRACTICE

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 2

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.

**Prerequisites:** Successful completion of subjects totalling not less than 85 hours of weekly contact time.

**Credit Points:** 4 **Contact Hours:** 1 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

Undertaking of 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 **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 2

Review of matrices, the Jacobian matrix, orthogonal matrices; transformations, coordinate transformations; rotations in 3 dimensions, euler angles, datum transformations, the development of datums.

Prerequisite: SVB640

Credit Points: 5 Contact Hours: 3 per week

## ■ SVB911 GRAPHIC DESIGN 1

Perception, development of awareness, a broad-based approach to design, including graphics, film, fabrics, industrial design. Sketching in pencil from nature, cast and other areas. Development of tones and textures using various media.

Credit Points: 10 Contact Hours: 5 per week

## ■ SVB912 GRAPHIC DESIGN 2

Identification and statement of design problems and solutions; conceptualising in design; the study of colour; the abstract tools of design; composition, perspective, projections and layout.

Contact Points: 9 Contact Hours: 4 per week

## ■ SVP111 CADASTRAL SURVEYING 1

The practice of cadastral surveying including subdivision design. Students may be required to spend four weeks at a field study centre and 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 communication; 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

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 MANAGEMENT

The recording and planning of survey projects and assessing progress.

Credit Points: 7 Contact Hours: 100 total

## ■ SVP211 CADASTRAL SURVEYING 2

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 SURVEYS

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

## ■ SVT115 CARTOGRAPHIC COMPUTATIONS 1

Calculation and calculating; plane geometry; review of algebraic manipulation with cartographic applications; matrices and transformations as used in mapping.

Credit Points: 8 Contact Hours: 3 per week

## ■ SVT225 SURVEYING

Basic principles of surveying techniques for 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 1

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

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

## ■ SVT471 LAND LAWS & REGULATIONS

Introduction to the Australian legal system, sources of law; acts affecting land and land surveying in Queensland.

Credit Points: 8 Contact Hours: 3 per week

## ■ SVT511 CAD SYSTEMS

Principles of digital mapping; use of an interactive graphics system for mapping operations.

Prerequisite: SVT991

Credit Points: 8 Contact Hours: 3 per week

## ■ SVT513 DIGITAL MAPPING

Advanced 3 dimensional mapping; analytical plotting systems including digital and graphical mapping,



digital elevation models and unconventional mapping.

**Prerequisites:** SVT443, SVT315

**Credit Points:** 8 **Contact Hours:** 3 per week

### ■ SVT623 PROJECT MAPPING

The role of government and the private sector in project mapping; planning mapping projects.

**Prerequisites:** SVT343, SVT443

**Credit Points:** 4 **Contact Hours:** 1.5 per week

### ■ SVT642 MAP PROJECTIONS 1

Special trigonometry and its application to map projections; projections using a sphere as reference surface.

**Prerequisite:** SVT115

**Credit Points:** 8 **Contact Hours:** 3 per week

### ■ SVT715 CARTOGRAPHY 1

Monochrome design; map compilation; the process camera for cartographic use; lithography.

**Credit Points:** 8 **Contact Hours:** 3 per week

### ■ SVT742 MAP PROJECTIONS 2

Geodesy; geometry of ellipse and ellipsoid; gravity; geodesy in mapping; the traverse mercator projection, UTM and the Australian Map Grid; computations: geographic to grid and vice versa.

**Prerequisite:** SVT642

**Credit Points:** 8 **Contact Hours:** 3 per week

### ■ SVT815 CARTOGRAPHY 2

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.

**Prerequisite:** SVT715

**Credit Points:** 8 **Contact Hours:** 3 per week

### ■ SVT826 CARTOGRAPHIC ADMINISTRATION

Government and public administration; theory of organisations and its application to mapping agencies.

**Credit Points:** 8 **Contact Hours:** 3 per week

### ■ SVT915 CARTOGRAPHY 3

Economics of standard mapping, sheet sizes, map specifications, map accuracy; use of orthophotos; thematic mapping; special cartographic techniques.

**Prerequisite:** SVT815

**Credit Points:** 8 **Contact Hours:** 3 per week

### ■ SVT916 CARTOGRAPHY 4

Digital methods in cartography; compilation of data for computer-assisted cartography; coordinate systems and digitising; methods of display.

**Prerequisites:** SVT915, SVT315

**Credit Points:** 8 **Contact Hours:** 3 per week

### ■ SVT945 REMOTE SENSING

Remote sensing; data and information; electromagnetic propagation; spectral sensitivity and response; remote sensing imagery.

**Prerequisite:** SVT343

**Credit Points:** 8 **Contact Hours:** 3 per week

### ■ SVT992 COMPUTER GRAPHICS 2

Data for computer-assisted mapping; programming techniques for automated drafting; HP graphics language for driving plotters.

**Prerequisites:** SVT991, SVT315

**Credit Points:** 8 **Contact Hours:** 3 per week

## Special Faculty of Business Electives

### ■ ALB102 CONSUMER STUDIES

The nature of the consumer society in the Australian economy; the interdependent roles of the consumer, business and government; consumer behaviour; products and services; marketing and advertising; consumer protection.

**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ ALB106 LAW AND COMMUNICATION

The institutions of the law; ordering the law: public and private; the fashioning of law: cases, precedent, legislation, delegated legislation interpretation, facts, legal reasoning, the law library; limits on freedom of expression: torts, crimes, defamation, obscenity; laws affecting advertising: broadcasting, television and press; contempt of court.

**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ ALB108 PUBLIC ADMINISTRATIVE LAW

Nature and development of law; precedent; deeds and statutes; torts; criminal law, constitutional law; foundations of administrative law; judicial review of administrative action, natural justice, ultra vires; common law remedies; legal position of the Crown and government instrumentalities; Administrative Appeals Tribunal; the Ombudsman; the Federal Court; the Judicial Review Act; freedom of information; law reform.

**Prerequisite:** EPB104

**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ ALB130 INDIRECT TAXATION

Sales tax; customs and excise duties; stamp duty; payroll tax; land tax.

**Prerequisite:** ALB133

**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ AYB214 COMPANY ACCOUNTING FOR EDUCATORS

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

### ■ AYB215 COMPUTERS IN ACCOUNTING 1

Business information systems concepts; accounting applications; controls and accounting; systems software-DOS; application software-accounting package; application software-spreadsheet package; application to business education.

**Credit Points:** 12 **Contact Hours:** 4 per week

### ■ AYB216 COMPUTERS IN ACCOUNTING 2

System design, implementation and installation; database query languages; business graphics; expert systems; communications; computer networks; application to business education.

**Prerequisites:** AYB215, AYB110

**Credit Points:** 12 **Contact Hours:** 4 per week

### ■ BSB100 MANAGEMENT & INDUSTRIAL RELATIONS

The development of modern management; contemporary managerial processes in the organisation and

in society; relations between managers and the state; unions and workers.

**Credit Points:** 12      **Contact Hours:** 4 per week

#### ■ COB104 DRAMATURGY FOR PROFESSIONALS

The relational level of communication; structure and style of message with special emphasis on non-verbal language; dramaturgical and experiential models. The theoretical perspectives of semiotic message analysis and action research underpin the practical exercises used.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ COB107 INTERCULTURAL COMMUNICATION

The social and cultural factors which affect international business communication. The influence of values, beliefs and customs on the communication process. It is anticipated that in 1992 a joint project will be conducted over the course of the semester with students in English language classes at Universities in Japan and South Korea.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ COB109 ISSUES IN PUBLISHING

The processes involved in book and magazine publishing. Topics include: changing media habits and literacy skills of consumers; the impact of technology and economics; the processes of publishing; strategic positioning, editorial concepts and steps in production.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ COB117 BUSINESS ORGANISATION

The interrelationship of key characteristics of the business organisation: people, strategies, structures, technology and the business environment.

**Prerequisite:** Business Management

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ COB124 OFFICE TRANSCRIPTION A

Progressive development of audio transcription skills to an advanced level using a wide range of business correspondence including technical, legal and medical.

**Credit Points:** 12      **Contact Hours:** 4 per week

#### ■ COB125 OFFICE TRANSCRIPTION B

Synopsis as for COB124.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ COB127 OFFICE MANAGEMENT

The role of administrative management; policy making procedures involving administrative operations, communication and information management.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ COB146 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:** COB160

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ COB147 CREATIVE WRITING

Creative writing involving the communication of ideas and values within a social framework. Students examine the creative writing process with particular emphasis on the short story. The problems of publishing and marketing as a professional writer are considered.

**Prerequisite:** COB144

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ COB151 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:** Introduction to Management

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ COB152 ANALYSIS AND METHODOLOGY IN MANAGEMENT

The first part of the subject 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. A final project requiring the construction of an argument and integration of data is 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

#### ■ COB153 ORGANISATIONAL ANALYSIS & MANAGEMENT

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. Specific skills valuable to managers are identified and discussed. The major processes are examined, with a focus on decision making and communication processes.

**Prerequisite:** COB152

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ COB154 ORGANISATIONAL SOCIOLOGY

Organisations in the public sector. The subject 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 Administrative Theory or Psychology.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ COB156 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 qualifications in secretarial studies.

**Prerequisite:** Diploma of Teaching with a major in commercial studies or equivalent.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ COB162 COMMUNITY BASED ORGANISATION: STRUCTURE & PROCESS

Community improvement, service, cultural and economic development organisations and associations in Australian society; their background, purposes, means of operation and relationship with their environment and wider society. Particular concern is paid to the skills necessary to develop and maintain success organisations.

**Prerequisite:** COB129

**Credit Points:** 12      **Contact Hours:** 3 per week

## ■ EPB126 GOVERNMENT ECONOMIC POLICY

Problems in the economics of government social policy; social policy and its impact on the allocation of resources and distribution of income and wealth; the theory of taxation; fiscal federalism; the significance of the size and growth of the public sector. 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.

**Prerequisite:** EPB150 or EPB151

**Credit Points:** 12 **Contact Hours:** 3 per week

## ■ EPB129 INTERNATIONAL BUSINESS STRATEGIES

The environment 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; negotiation; the future.

**Credit Points:** 12 **Contact Hours:** 3 per week

## ■ EPB134 LABOUR ECONOMICS

This subject applies analytical tools acquired from the preceding subjects investigating specific market applications both at the micro and macro levels. Topics include: the demand and supply of labour; investment in human capital, market structures and their effect on equilibrium wage levels; job search; discrimination; collective bargaining; minimum wages; enterprise bargaining; unemployment; inflation; the Phillips Curve in Australia.

**Prerequisites:** EPB154, EPB142

**Credit Points:** 12 **Contact Hours:** 3 per week

## ■ EPB170 PACIFIC RIM ECONOMIC RELATIONS

Pacific rim nations such as Australia, South-east Asia, China, Japan, Canada, the United State of America, Central and South America and New Zealand; the evolution of economic relations; trade, investment and migration; the impact of political, social and cultural variables the development of a strategic management perspective.

**Prerequisite:** EPB142

**Credit Points:** 12 **Contact Hours:** 3 per week

## ■ FNB103 COMPARATIVE FINANCIAL SYSTEMS

Introduction to the operations of important overseas capital markets.

**Prerequisite:** FNB100, Financial Management 1

**Credit Points:** 12 **Contact Hours:** 3 per week

## ■ FNB107 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; computer applications. Incompatible with Accounting 2.

**Prerequisite:** AYB217

**Credit Points:** 12 **Contact Hours:** 4 per week

## ■ FNB118 GOVERNMENT FINANCE

Introduction to government finance, sources of public income, public expenditure, investment and debt; taxation objectives, principles and practices; instrumentality of economic accountability, intergovernmental financial relations, government finance and economic policy, new financial legislation and institutions.

**Prerequisite:** AYB103, Managerial Economics

**Credit Points:** 12 **Contact Hours:** 3 per week

## ■ FNB119 INSURANCE RISK MANAGEMENT

Risk classification; measurement and analyses of risk; types of insurance policies available; the evaluation of an insurance program.

**Prerequisites:** Accounting 1, Financial Management 1

**Credit Points:** 12 **Contact Hours:** 3 per week

## ■ HRB117 INTERNATIONAL HUMAN RESOURCE MANAGEMENT

Organisational structure and cultural differences; communicating across cultural boundaries; multicultural teams; crosscultural leadership, motivation and negotiation; comparative human resource management; comparative employee relations.

**Prerequisites:** COB112, HRB131

**Credit Points:** 12 **Contact Hours:** 3 per week

## ■ HRB403 QUALITY MANAGEMENT

Introduction to the role of quality in the modern organisation; relation between quality management and strategic management as a total management philosophy; international quality programs and implications for Australia; organising for quality.

**Credit Points:** 12

## ■ MJB111 CREATIVE PRESENTATIONS

This subject is based on the semiotic perspective and uses practical drama as the tool for learning. Communication theory: verbal structure, paralanguage, proxemics, kinesics, etc. The concepts learned are applied to the development of expressive presentation skills in the business environment.

**Credit Points:** 12 **Contact Hours:** 3 per week

## ■ MJB112 MEDIA PRAXIS 3

Experimentation with a greater variety of production codes in three areas: still photography, video production and film production.

**Prerequisite:** MJB145

**Credit Points:** 12 **Contact Hours:** 3 per week

## ■ MJB119 AUSTRALIAN LITERATURE AND FILM IN SOCIETY

Selective thematic and textual analysis of Australian literature and film as expressions of Australian culture; the broader questions of representation and national cinema; the focus is principally upon film.

**Prerequisite:** Australian Studies

**Credit Points:** 12 **Contact Hours:** 3 per week

## ■ MJB133 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 crosscultural communication.

**Credit Points:** 12 **Contact Hours:** 3 per week

## ■ MJB145 MEDIA PRAXIS 2

Continuation of Media Praxis 1; the production of meaning in media texts through practical work. Students deal exclusively with audiovisual media and continue to use video equipment but are involved in more complex production tasks.

**Prerequisite:** Media Praxis 1

**Credit Points:** 12 **Contact Hours:** 3 per week

## ■ MJX100 TELEVISION PRODUCTION

Basic application of production techniques to performance statistics.

**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ MKB103 MARKETING EXPERIMENTATION

Experimental design for the development of marketing theory and for rigorous control of the environment in finding casual relationships; field and laboratory experiments external and internal validity; extraneous variables; control groups; combining experimental treatments in factorial designs and interactive effects.

**Prerequisite:** EPB109

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ MKB104 ADVANCED MARKETING RESEARCH TECHNIQUES

The subject aims to give students a good working familiarity with the most used techniques in marketing research. A detailed analysis of concepts gained in marketing research.

**Prerequisite:** EPB109

**Co-requisite:** MKB151

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ MKB105 PROFESSIONAL PUBLIC RELATIONS PRACTICE

Final year undergraduates work in public relations oriented organisations, under supervision for 4 weeks. Undergraduates arrange for their own placements, which must be approved by the lecturer responsible for the subject. Acceptance into this subject is not a right and is subject to the approval of the Head of School, and/or Major Coordinator.

**Prerequisites:** MKB123, MKB120. Undergraduates must have successfully completed 5 semesters of the full-time course or equivalent.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ MKB106 PROFESSIONAL ADVERTISING PRACTICE

Final year undergraduates work in advertising oriented organisations under supervision for 4 weeks. Undergraduates arrange for their own placements, which must be approved by the lecturer responsible for the subject. Acceptance into this subject is not a right and is subject to the approval of the Head of School, and/or Major Coordinator.

**Prerequisite:** MKB126 and students must have completed 5 semesters full-time or equivalent.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ MKB107 MARKETING DECISION SUPPORT SYSTEMS

Advanced treatment of the theory and application of marketing decisions; the evaluation of marketing policy and strategy; consumer and organisational buying behaviour; market segmentation, demand assessment; product, price, promotion and distribution..

**Prerequisite:** MKB141 and EPB109

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ MKB109 SPECIAL TOPIC IN MARKETING

Current and/or controversial issues in marketing. Use of relevant experts is an important ingredient of the subject.

**Prerequisite:** MKB140 or MKN106

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ MKB110 MARKET ANALYSIS REALITIES

Market segmentation techniques; estimating market potential; new product research including concept testing, prediction of trial purchase and test marketing; customer satisfaction theory, measurement and profit implications; a substantial practical component including a large research project is involved.

**Co-requisite:** MKB151

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ MKB111 MARKETING MEASUREMENT CONCEPTS

Questionnaire design for marketing research; question relevance, accuracy, sequence and layout; measurement and scaling concepts; measurement of advertising effectiveness. A hands-on approach to questionnaire design and measurement.

**Prerequisite:** EPB109

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ MKB119 ADVERTISING COPYWRITING - ELECTRONIC

Development of copy platforms and positioning; introduction to electronic media copy and storyboarding; development of electronic copywriting; graphic production; production of radio and TV commercials; campaign development and presentation of campaigns.

**Prerequisites:** MKB118 and MJB126 (may be a co-requisite)

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ MKB121 RETAIL ADVERTISING

The essential tasks of retail advertising; motivational techniques; retail and national advertising; imagery and typography; advertising departments versus agencies; handbills, inserts, direct mail and catalogues; audience differentiation; measuring results; planning, copywriting and presentation of retail companies.

**Prerequisite:** MKB118 or MKB145

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ MKB134 BUSINESS FORECASTING

The theory and application of quantitative forecasting models including smoothing techniques, CDA and auto-projective; casual models in sales and advertising; qualitative models including Delphi.

**Prerequisite:** EPB109

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ MKB138 MARKET SIMULATION

This subjects develops an understanding of the effectiveness of marketing strategies in differing market structures. Topics include: Australian market structures; pricing variations; risk and uncertainty; product pricing; transfer pricing; capital budgeting.

**Prerequisites:** EPB116 and EPB109

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ MKB157 PRINCIPLES OF DIRECT MARKETING

The underlying principles, standards and practice of direct marketing; customer requirements; acquisition and servicing; strategic and tactical planning; database marketing; list procurement and use; cost and profit considerations; product delivery.

**Prerequisite:** MKB142

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ MKP106 ADVERTISING SEMINAR

Advertising and promotion management; the 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 their integration. Research methods and media planning is considered against the basic thrust of this binary communication model.

**Credit Points:** 12      **Contact Hours:** 3 per week