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# HANDBOOK



Queensland University of Technology

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# CONTENTS

## 1 General Information

Preface .....	3
Principal Dates .....	5
Council and Committees .....	6
Staff .....	14
Research Centres .....	41
Academic and Student Services .....	52
Prizes and Awards .....	64
Student Guild .....	87
Art Collection .....	92

## 2 Student Rules

Student Rules, Policies and Procedures .....	95
Policy Statements .....	144

## 3 Academic Programs

University-wide and Interfaculty Courses .....	149
Faculty of Arts .....	185
Faculty of Built Environment and Engineering .....	209
Faculty of Business .....	299
Faculty of Education .....	385
Faculty of Health .....	461
Faculty of Information Technology .....	497
Faculty of Law .....	533
Faculty of Science .....	559
Index of Courses .....	595

## 4 Unit Synopses

Unit Coding and Numbering .....	603
Synopses .....	604





# 1

## General Information

# CONTENTS

<b>Preface.....</b>	<b>3</b>
<b>Principal Dates .....</b>	<b>5</b>
<b>Council and Committees.....</b>	<b>6</b>
<b>Staff</b>	
Senior Officers of the Administration .....	14
Academic Staff.....	15
<b>Research Centres</b>	
Australian Key Centre in Land Information Studies .....	41
Centre for Biological Population Management .....	42
Centre for Eye Research .....	43
Centre for Instrumental and Developmental Chemistry .....	43
Centre for Medical and Health Physics .....	44
Centre for Molecular Biotechnology .....	46
Centre for Mathematics and Science Education .....	46
Centre for Signal Processing Research.....	47
Information Security Research Centre .....	48
Key Centre in Strategic Management .....	49
Physical Infrastructure Centre.....	50
<b>Academic and Student Services</b>	
Aboriginal and Torres Strait Islander Unit.....	52
Chaplaincy Services .....	52
Computing Services .....	53
Counselling and Health Services .....	56
International Students .....	58
QUT Foundation.....	62
University Library .....	62
<b>Prizes and Awards.....</b>	<b>64</b>
<b>Student Guild .....</b>	<b>87</b>
<b>Art Collection.....</b>	<b>92</b>

# 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 administering the University in accordance with the Queensland University of Technology Act, 1988-1990. The Council consists of 22 members, of whom eight are nominees of the Minister for Education, one is a nominee of the Director-General of Education, two are nominees of the Council, two are elected non-academic staff members, three are elected academic

staff members, two are elected student members and 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.

**Note:** All correspondence should be addressed to:

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

QUT is subject to the Queensland *Freedom of Information Act 1992* which commenced on 19 November 1992.

# 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

11 – 15 January	■ Week 1
18 – 22 January	■ Week 2
25 – 29 January	■ Week 3
01 – 05 February	■ Week 4
08 – 12 February	■ Week 5

## First Semester

11 – 12 February	■ Orientation
15 – 19 February	■ Week 1
22 – 26 February	■ Week 2
01 – 05 March	■ Week 3
08 – 12 March	■ Week 4
15 – 19 March	■ Week 5
22 – 26 March	■ Week 6
29 March – 02 April	■ Week 7
05 – 08 April	■ Week 8
13 – 16 April	■ Vacation
19 – 23 April	■ Week 9
26 – 30 April	■ Week 10
04 – 07 May	■ Week 11
10 – 14 May	■ Week 12
17 – 21 May	■ Week 13
24 – 28 May	■ Week 14
02 June – 26 July	■ Exam preparation, exams, assessment, fieldwork, vacation

## Second Semester

19 – 23 July	■ Week 1
26 – 30 July	■ Week 2
02 – 06 August	■ Week 3
09 – 13 August	■ Week 4
16 – 20 August	■ Week 5
23 – 27 August	■ Week 6
30 August – 03 September	■ Week 7
06 – 10 September	■ Week 8
13 – 17 September	■ Vacation
20 – 24 September	■ Week 9
27 September – 01 October	■ Week 10
04 – 08 October	■ Week 11
11 – 15 October	■ Week 12
18 – 22 October	■ Week 13
25 – 29 October	■ Week 14
02 – 27 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 *CNAA*, 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*

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, GDIndRel *Brisbane*

### Elected non-academic staff members

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

E.D. Harding, BA *Qld*

### Elected academic staff members

Associate Professor D. Blackmur, BEng(Hons) MLitStud PhD *Qld*, MACE

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

\* The term of the current Council expires on 20 November 1992.

### **Elected student members**

R.H. Doo, DipT *Brisbane*

S. Zackeresen

### **Elected Convocation members**

P.J. McGahan, BAppSc (Ind.Chem.) GDBusAdmin *QIT*

M.A. Muldoon, GDEdAdmin *Mt Gravatt*

### **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.

Associate Pro-Vice-Chancellor (Academic) (right of audience and debate).

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.

## **Aboriginal and Torres Strait Islander Committee**

### **Membership**

Chairperson nominated by the Pro-Vice-Chancellor after advice from the Committee.  
All the academic staff within the Aboriginal and Torres Strait Islander Unit and from its support programs *ex officio*.

One student representative from each support program.

One member of Council nominated by Council.

One nominee of the Registrar from Finance and Facilities.

Two enrolled students appointed or elected in the manner determined by the Student Guild Council.

Equity Coordinator or nominee.

One nominee of QATSIECC.

One nominee of the State Director of DEET.

One nominee of the Director-General of Education.

Two coopted members.

A nominee of the Registrar is secretary.

The Committee will have power to coopt persons with particular expertise as necessary. Coopted members do not have voting rights.

The head of the Aboriginal and Torres Strait Islander Unit will act as executive officer of the Committee.

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

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

Nominated members serve a two-year term.

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

Student Guild members and student representatives serve a one-year term.

The Aboriginal and Torres Strait Islander Committee meets at least four times a year.

## **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.

## **Admission Appeals Committee**

### **Membership**

Pro-Vice-Chancellor (Academic) or nominee as chairperson.

Counselling and Health Services Director *ex officio*.

Registrar (or nominee).

One senior academic staff member nominated by the Vice-Chancellor.

One member of the Student Guild nominated by the Guild.

Admissions Manager as secretary.

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

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

The nominated academic staff member serves a two-year term.

The Student Guild member serves a one-year term.

Admission Appeals Committee meets as required.

## **Capital Works Committee**

### **Membership**

Chairperson of Planning and Resources Committee *ex officio* as chairperson

Vice-Chancellor *ex officio*.

Finance and Facilities Director *ex officio*.

One member of Planning and Resources Committee nominated or elected by Planning and Resources Committee.

University Architect *ex officio*.

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.

Committee on Capital Works 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.

## Equity Board

### Membership

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

Chairperson of Aboriginal and Torres Strait Islander Committee *ex officio*.

Equity Coordinator *ex officio*.

Equity Officer *ex officio*.

One nominee of each committee of Equity Board, Access for People with Disabilities, Affirmative Action for Women.

One member of Council nominated by Council.  
 Two enrolled students appointed or elected in the manner determined by the Student Guild Council.  
 One academic staff member elected by and from the academic staff of the University.  
 One non-academic staff member elected by and from the non-academic staff of the University.  
 One dean of faculty appointed by the Vice-Chancellor's Advisory Committee.  
 One academic staff member nominated by and from Academic Committee.  
 One nominee of the Registrar from Student Administration.  
 One nominee of the Registrar from Counselling and Health Services.  
 One nominee of the Registrar from Personnel.  
 Director, Academic Staff Development (coopted).  
 Two lecturers, Faculty of Law (coopted).  
 A nominee of the Registrar is secretary.  
 The Board will have power to coopt persons with particular expertise as necessary.  
 Coopted members do not have voting rights.  
 The Equity Coordinator will act as executive officer of Equity Board.

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

Council members hold office for the term of the Council that nominates them (three years).  
 Nominated and elected members serve a two-year term.  
*Ex officio* members remain members for as long as they hold the position relevant to their membership.  
 Student Guild members serve a one-year term.  
 Equity Board meets at least four times a year.

## **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.

## **Vice-Chancellor's Staff/Student Liaison Committee**

### **Membership**

Vice-Chancellor *ex officio* as chairperson.

President, Academic Staff Association, *ex officio*.

Chairperson of the combined unions industrial group *ex officio*.

President, Student Guild *ex officio*.

One member of the Academic Staff Association nominated by the Association.

One member of the combined unions industrial group nominated by the group.

One academic staff member elected by and from the University's academic staff.

One non-academic staff member elected by and from the University's non-academic staff.

Two enrolled students appointed or elected in the manner determined by the Student Guild Council.

One nominee of Counselling and Health Services Director (coopted).

One academic staff member (coopted).

A nominee of the Registrar is secretary.

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

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

Members appointed by the Academic Staff Association and the combined unions industrial group serve a two-year term.

Elected staff members serve a two-year term.

Student Guild members serve a one-year term.

Coopted members do not have voting rights.

The Committee meets at least four times a year.

# STAFF

## Senior Officers of the Administration

### Chancellery

*Vice-Chancellor:* Professor R.D. Gibson, MSc *Hull*, PhD *N'cle(UK)*, DSc *CNA*, 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.*, FACE, MAPsS

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

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

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

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

*Equity Coordinator:* N.R. Shatfan, BA *CNA*, BSocWk *Curtin*

*Coordinator, Aboriginal and Torres Strait Islander Unit:* P. Duncan

*Executive Officer:* M.R. 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 *W.Ont.*, 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*, MBus(Comn)

*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.E. Poole, BA BEd *Qld*, MA(Hons) *NE*, PhD *LaT.*, FACE, MAPsS

*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.*, DipLib *Canb.*, AALIA, AIMM  
*Computing Services Director:* J.D. Noad, MSc *Qld*, MACS  
*Audiovisual Services Director:* G.A. Roberts, BA DipEd *NSW*, MScEd  
EducSpecialist *Indiana*, MAITD  
*Educational Television (ETV) Manager:* R.J. Care-Wickham  
*External Studies Manager:* Associate Professor B.R. Scriven, BSc MEd *Syd.*,  
DipEd *NE*, MEdAdmin *Qld*, ASIA, MACE  
*Computer Based Education Manager:* H.D. Ellis, BSc(Hons) PhD *Durh.*, MAIP,  
MIMA

## **Academic Staff**

### **Faculty of Arts**

*Dean:* Professor P.R. Wilson, BA MA(Hons) *Cant.*, PhD *Qld*, MANZSocCrim,  
ExMIntSocAss, MAmSocCrim  
*Associate Dean:* Associate Professor G.E. Embelton, BA BD MEdSt *Qld*,  
PhD *Mich.S.* DipRE, MCD, MAPsS  
*Faculty Administration Officer:* J.A. Stephenson, BA MBA *Qld*, AIMM, ASA

### **Academy of the Arts**

*Head of School:* Professor 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:*  
Associate Professor 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*, MA *Sussex*, AdvDepS & D *Lond.*,  
ASDA, LSDA, ATCL, LTCL, FTCL  
C. Hoeppe, BA DipEd *Qld*  
D.K. McCrudden, DipStageProd *NIDA*  
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## **Music**

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### *Lecturers:*

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C. McCreath, BA AEd *Qld*, DalcrozeSCert *Syd.*, CertT *Kelvin Grove*, AMusA, ATCL, AAIM  
A.L. Morris, BMus GDMus *QCM*, GDTeach *Brisbane*  
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### *Lecturers:*

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G.C. Coomber  
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I.G. Hutson, DipEd *Auckland STC*, DipFineArts(Hons) *Cant.*, BA *Open*  
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D. Mafe, DipPainting GDPainting *Royal Academy, Lond.*  
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## School of Humanities

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### **School of Construction Management**

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### **Centre for Digital Signal Processing**

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### **Centre for Urban and Regional Development**

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### **School of Surveying**

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### **Australian Key Centre in Land Information Studies**

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#### *Associate Lecturers:*

J. Bryant, TCert *ATC*, BBus *Brisbane*, ACA

A. Gardiner, BBus *QIT*

S. Marsden, BBus GradDipAdvAcc *QIT*, ACA, FTIA, AAIEX, CPA

M. McCarthy, BBus *QIT*

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

*Head of School:* P. Little, LLB LLM *Qld*, Barrister

*Senior Lecturers:*

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

N. Katter, LLB LLM *Qld*, Barrister

M. McGregor-Lowndes, BA LLB *Qld*, MAdmin *Griff*.

*Lecturers:*

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

J. Hadaway, BCom *Qld*

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M. Hocken, BA *Capricornia*, LLB *QIT*, GDTeach(Sec), Barrister

D. Morrison, BCom LLB *Qld*

H. Park, BBus *QIT*, LLB(Hons), ACA

M. Pearce, BCom *Qld*, LLB(Hons) *QIT*, ASA

*Associate Lecturers:*

D. Day, LLB, Solicitor

M. Knight, BEcon *Tas*.

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

M.M. Robinson, BA LLB *Qld*

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

*Head of School:* Professor R.W. Norton, BA *Montana*, MA *New Mexico*, PhD *Wis.*,  
ICA, SCA, APA, ACA

*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 BCom MSocSc *Qld*

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

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

R. Petelin, BA MA *Qld*, ASDA

*Lecturers:*

J.N. Chapman, BA DipPsych *Qld*

J.E. Clare, DipT *Vic.*, LSDA, ASDA

J. Evans, BA *Qld*, GDTeach *Kelvin Grove*, ASDA

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

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

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L.E. Simpson, DipT *Mt Gravatt*, BEd *Brisbane*, MEd *James Cook*

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

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

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

*Head of School:* Associate Professor A. Layton, BEcon(Hons) MEcon PhD *Qld*

*Associate Professors:*

P.A. Cassidy, QDA QAC, MAgrSc 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.*  
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O. Kurer, DipBusStud *HWV Zurich*, 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:*

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T.V. Cronk, BA(Hons) *Qld*, MA *Lond.*, GDBusAdmin *QIT*  
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J. James, BA MEconSt *Qld*  
E. McCann, BSc(Econ) *Belf.*, GCertEd *Leeds*, MEc *NE*  
C. McCoy, BSc(Ed) *Ill.*, MA *Colgate*, PhD *Boston*  
M. McGovern, BSc DipEd BEcon MRegSc *Qld*, PhD *NE*  
J. McMillan, BA(Hons) *Qld*  
N. Ryan, MSc MPhil *Griff.*  
R.V. Senescall, BEcon(Hons) MEconSt *Qld*  
C.H. Williams, BA(Hons) *Stir.*, MPhil(Econ) *Oxf.*

### *Associate Lecturers:*

P.G. Morgan, BA *Griff.*  
S. Ridings, BA *Griff.*, MSocSc *Qld*

## **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:*

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### *Lecturers:*

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

### *Associate Lecturers:*

P. Doyle, BBus, CPA  
P. Jeavons, BCom *Qld*, CPA  
I.M. Tutticci, BBus(Hons)

## **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, PhD Griff., CMAHRI, AIMM  
D.A. Lambert, DipSS Oxf., BSc(Econ) Wales, MSc(Econ) Lond., PhD ANU  
B.J. Smith, BEcon(Hons) MEcon Qld, AITD, CMAHRI  
G.N. Southey, BBus Darling Downs, DipPsych(Hons) MAppPsych Qld, MAPsS, CMAHRI  
P.J. Sutcliffe, BEcon(Hons) MEcon(Hons) Syd.

### *Lecturers:*

M.A. Barrett, BA(Hons) PhD Qld  
J.M. Crittall, BEcon(Hons) Qld  
G.P. Davidson, BSc(Hons) BD Qld, DPS Birm., Cert Ec Geneva, MAPsS, AIMM, CMAHRI, FAIOD  
C. Dickenson, BBus(Mgt) QIT, CMAHRI  
W.A. Edwards, BCom(Hons) DipFM Qld  
D. Lewis, CertT Kelvin Grove, AEd BA Qld, MPhil PhD Griff.  
P.T. Mansour-Nahra, BA PhD N'cle(NSW), STL  
R.B. Sappey, BEc(Hons) Syd., MSc(Econ) Lond.  
L. Sargent, BA Qld  
P. Steane, BTheol MCD, DipEd ICE, MEd NE  
*Associate Lecturer:* M. Lewis, DipBus BBus(Public Admin) QIT

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

*Head of School:* Professor N.D. Arnold, BMus MSc Southern Ill., ReD Indiana

### *Senior Lecturers:*

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

### *Acting Senior Lecturers:*

C.W. Collyer, BEcon(Hons) MEconSt Qld  
S.J. Fitzpatrick, BBus(Comn) QIT, FAIA(Dip)

### *Lecturers:*

D.F. Best, BA Qld, GDBusAdmin GDLibSc QIT  
M.J. Briggs, CertT Asopa, MBA Qld, GDEdAdmin Hawthorne  
J. Dunleavy, BBus QIT, MBus(Mgt), AAMI, CMAHRI, MATA, MACSA  
S.Ferris, BA(Hons) Qld  
A.V. Hales, BA Syd.  
K. Madden, BBus(Comn) QIT  
C.M. Neal, BBus(Comn) QIT, GDMktg CIT, GDEd(Tert) Darling Downs, MBA Qld  
R. Stokes, BA Capricornia, GDEdPng Canb.  
H. J. Stuart, BSc DipEd NE, MA ANU, AFAMI, MMRS  
L.D. Thomas, BBus Capricornia, MCom(Mktg) NSW, AFAIM, AAIEEX  
*Associate Lecturer:* V. Schinkel, BBus(Mktg) MBus(MktgSc)

## **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:*

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

#### *Lecturers:*

L. Bowman, BA *Qld*  
S. Frost, CertT *Mt Gravatt*, ADArt *QCA*, DipCin *AFTRS*, BA *Qld*  
C. Hippocrates, BA *Qld*  
G. MacLennan, BA DipEd *Belf.*, MA *Essex*  
J. Malone, BA DipEd *Qld*, MBus(Comm)  
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 PhD *NSW*

#### *Associate Lecturers:*

R. Bradbury, CertPhoto *QCA*  
L. Faulkner, BSc *Qld*

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

*Director:* Professor G.J. Bamber, BSc(Hons) *Manc.*, PhD *H-W Edin.*, CMAHRI, FAIM, FBIM, FIPM

*Queensland Government Professor of Quality Management:* Professor I.W. Saunders, BA *Oxf.*, Dip MathStatist *Camb.*, PhD *ANU*

#### *Senior Staff:*

M.C. Browne, BAdmin(Hons) *Griff*.  
J.J. Forster, BA(Hons) *Keele*. MSc *Lond.*, PhD *McMaster*  
J.E. Nixon, BA *Qld*  
A.P. Preston, BSc(Hons) *ANU*, MAdmin *Griff.*, PhD *Qld*  
J. Rodwell, BA PGDipPsych *Qld*  
M. Shadur, BA(Hons) PhD *ANU*

### **Communication Centre**

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

### **Rural Management Development Centre**

*Director:* P. Huthwaite

## **Faculty of Education**

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

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

*Assistant Dean:* R.J. Hardingham, BSc DipEd BEd MEdAdmin PhD *Qld*, MACE  
*Faculty Administration Officer:* J. Zahmel, BBus, ASA

### **Cultural and Policy Studies**

*Head of School:* Professor N.J. Kyle, BA(Hons) PhD *N'cle(NSW)*

*Associate Professor:* C.M. Burke, MA *Mich.S.*, MA PhD *Mich.*, FCP, MACE, MAPsS

### **Senior Lecturers:**

L.J. Daws, BA BEd *Monash*, MEd(Hons) *NE*  
T. Garvey, DipSocSt *Enf.*, BA(Hons) *CNA*, MEd PhD *Qld*  
M.J. Henry, BA *Melb.*, MA *LaT.*  
B. Limerick, BA BEd(Hons) *Witw.*, UEd *Natal*, PhD *Qld*  
S.C. Taylor, BSc(Hons) DipEd *Leic.*, BEd(Hons) PhD *James Cook*

### **Lecturers:**

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*  
P.C. O'Brien, BA *Griff.*, GDTeach(Sec) *Brisbane*, MEdSt *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*

### **Curriculum and Professional Studies**

*Head of School:* Professor B.C. Hansford, BCom BEd *Melb.*, MEd *Calg.*, PhD *NE*

*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 *S.Aust.CAE*, 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*  
I.G. Macpherson, BA BEd MEdSt *Qld*, PhD *Penn. S.*, MACE  
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*  
R.G. Cope, CertT *Syd.TC*, BEd(Hons) *James Cook*, MEdSt *Qld*  
J.D. Lange, BEdSt MEd *Qld*, EdD *Nth Ill.*  
J. Millwater, CertT DipT BEd *Nth Bris.*, MEd *NE*  
R.G.A. Nimmo, BEcon BEd *Qld*  
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D.J. Stewart, DipT *NZ*, BA *Otago*, MA *Auck.*, MEdAdmin *NE*  
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M.B. Wilkinson, CertT *Kedron Park*, BA *Qld*, MEd *Canb.*

### **Associate Lecturers:**

R.A. Brooker, BHMS *Qld*, GDSECTeach *Brisbane*  
T.A. O'Donoghue, BA(Hons) *Limerick*, MEd *Dublin*, MA PhD *NUI*

## Early Childhood

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

*Associate Professor:* S.K. Wright, BEd MED *Alta*, PhD *N'cle(NSW)*

### *Senior Lecturers:*

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

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

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

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

### *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*

S.J. Danby, DipT *Brisbane*, BEdSt *Qld*, MED *Loyola*

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

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K.A. Irving, BA(Hons) PhD *Qld*

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R.A. Perry, DipT *BKTC*, DipAdvStudEd *IEC Melb.*, BEdSt MED PhD *Qld*, AMusA

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 *S.Aust.CAE*, MED *Flinders*, MACE

### *Associate Lecturers:*

D. Le Clercq, DipT *Kelvin Grove*, BEd *Mt Gravatt*

J.M. Davis, DipT *Townsville*, BSc *Griff.*

## Language and Literacy Education

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

### *Senior Lecturers:*

J.H. Bissett, StCert *Jordan Hill*, MA *Glas.*

E.V. Burke, MA *Lanc.*, DipTESL *Trinity College*, PhD *MSU*

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 *S.Aust.CAE*

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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*

W.R. Morgan, BA MA *Cant(NZ)*, BA *Adel.*, MA *Cornell*, GDEd *Gippsland*,  
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M.E. Rosser, DipT *Kedron Park*, BEd *Brisbane*  
 A.L. Russell, BA *Adel.*, DipT *Tech S.Aust.CAE.*, MS PhD *Oregon*, ALIA, MACE  
 J. Spreadbury, CertT *Kelvin Grove*, BA MLitSt *Qld*, FTCL, LTCL, ASDA, MACE  
 P.D. Van Homrigh, CertRT *GDRReading Mt Gravatt*, BEd *Qld*

### **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:*

P.C. Burnett, DipT *Kelvin Grove*, BEdSt MEDSt *Qld*, DipAppPsych *Flin.*,

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:*

I. Brown, BSc MPhil *Auck.*

D.E. Burnes, BEd MEDSt CDTRT *Qld*, DipAATD *Syd.*, PhD *Ohio*, MAPsS

S. Burroughs-Lange, TC *Lond. ATO*, BA *Open*, MA *Sur.*, PhD *Nth Ill.*

A.M. Burton, CertT *Kelvin Grove*, BEcon MEDSt DipPsych *Qld*

B.C. Dart, BEd MEDSt *Qld*

G.A. Devereux, BSc *Qld*, DipEd *NE*, MSc *Lond.*, MAPsS

J.P. Fanshawe, BA BEd MEDSt *Qld*, MACE

M. Moore, BA(Hons) GDTeach, BSpThy PhD *Qld*, LTCL

W. Patton, BEd *James Cook*, BA(Hons) PhD *Qld*

J.A. Smith, BCom DipEd BEdSt PhD *Qld*, GDSpecEd *Mt Gravatt*

K. Tait, DipT *Mt Gravatt*, BEd *Brisbane*, MEDSt *Qld*

P. Taylor, CertT *Kelvin Grove*, DipT BEd *Darling Downs*, MCurrSt *NE*, PhD *Qld*

### **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 *Griff.*, 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, MRACI

R.A. Nason, MEDSt *Qld*, 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*

S.L. Dole, DipT *Bendigo*, BEd *Brisbane*, GDProfEdSt *Qld*

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

R.R. Irons, BA *Wis.*, MEd *Indiana*  
 T. Mowchanuk, BSc *Adrian*, BEd *LaT.*, GDInfoProc *Qld*  
 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 GDCCompEd *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*, GDCCompEd *Brisbane*  
 J.J. Watters, BSc(Hons) *Qld*, GDEd *Canb.*, PhD *Griff.*, MRACI  
 M.L. Williams, BAppSc *QIT*, DipEd *Qld*, GDCCompEd *Brisbane*

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

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

*Senior Lecturers:*

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

B.A. Hoepper, BA BEd *MedSt Qld*  
 T. Kwan Yim-Lin, BA(Hons) *CertEd AdvDipEd Med HK*, MSc *Oxf.*  
 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:* Professor A.W. Parker, MSc PhD *Oregon*, FASMF

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

*Senior Lecturers:*

K. Gilbert, CertT *Exe.*, BEd *S.Aust. CAE*, DP *Med Melb.*  
 A.Hills, BEd *Tas.*, MSc *Oregon*, PhD *Qld*

*Lecturers:*

R. Berry, DEP BEd *Qld*, *Med Syd.*  
 B. Boyd, CertT *Kedron Park*, BHMS *Qld*, MEnvComH *Griff.*  
 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, DPE *Qld*, GDOE *Edin.*  
 P. Horton, CertT *ADPE Exe.*, *Med NE*, BEd *PhD Qld*  
 D. Hyland, AM, DPE *BA BEd Qld*  
 D. Jones, BEd BCom *Med Qld*, PhD *Bowling Green*  
 M. McDonald, DipT *DPE NZ*, *MHK Wind.*  
 C. O'Brien, *MHMS PhD Qld*  
 C. Pope, BEd *BHMS Qld*  
 C. Purdy, BEd *BHMS Qld*

## School of Nursing

*Head of School:* Professor M.E. Clinton, BA *Open*, BA(Hons) PhD *E.Anglia*,  
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*Associate Professor:* G. Hart, DipNurs *BCIT*, DCHN *Cumberland*, BA MHP *NSW*  
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A. L. Dewar, BA BScN *Sask.*, MHP *NSW*

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

D. Gaskill, BAppSc GradDipHSc *WAIT*, MAppSc *Curtin*

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

J. W. Penridge, BEdSt *Qld*, DipNursEd, FRCNA, HMIAO

F. Sanders, BA *Qld*, DipAppSc ComNurs *Lincoln*, MSocPlanDev *Qld*, FRCNA

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

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BEd *S.Aust.CAE*, GDCLNutrition *IAN*, MHPed *NSW*

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

### *Lecturers:*

D. Anderson, BA *Qld*, GDNursStuds *Armidale*

A. Avery, BCom MCN *NSW*, BHSc *RMIHE*, MEd *W'gong*

A. Barnard, MA *Macq.*

R. Bull, BAppSc *Canb.*

D. Collins, BA *Qld*, BAppSc *QIT*, DipAppSc (NursEd), FRCNA

D. Creedy, BA(Hons) *Qld*, GDEd *LaT.*

M. Curry, BAppSc *QIT*, DipAppSc (NursEd), MSPD *Qld*

H. Donovan, BAppSc

S.V. Dunn, BNurs *NY State*, MNurs *Wash.*

R. Elder, BA(Hons) *Qld*

S. Goold, OAM, DipNursEd, BAppSc

C. Green, DipAppScNurs *Charles Sturt*, DipT BNurs *S.Aust.CAE*

M. Harris, DipComHlthNurs BBus (Hlth Admin) *QIT*

J. Holzl, BAppSc *Canb.*

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J.M.A. Letizia, DipAppSc BAppSc (Nurs)

J. Mannion, BAppSc, GradDipSocSc (Counselling)

J. McArdle, DipT *Adel.*, BEd *S.Aust.CAE*

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### *Associate Lecturers:*

J. Cunningham, BAppSc DipNursEd

A. Donovan, DipAppSc

B. Fentiman, BAppSc *QIT*

J. Foster, BNurs

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## School of Optometry

*Head of School:* Professor L. Carney, BAppSc MSc PhD *Melb.*, LOsc, FAAO

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

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

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

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## School of Public Health

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

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

PhD *Otago*

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

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

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

MEdAdmin *Qld*, MA *Griff.*

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J. DiDonato, BBus (Hlth Admin) *QIT*

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## Faculty of Information Technology

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*Director, Research:* Professor K.J. Gough, MSc PhD *Well.*, FNZEI, MIEEE, MACM, MACS

*Faculty Administration Officer:* M. McDowell, BA BEcon *Qld.*, BSc(SocSc)(Hons) *Brist.*

### School of Computing Science

*Head of School:* Associate Professor G. M. Mohay, BSc(Hons) *W.Aust.*, PhD *Monash*, MACS, MACM, AIEEE

*Professor of Neural Computing:* Professor J. Diederick, BPsych DipPsych *Muenster*, PhD *Bielefeld*

#### Senior Lecturers:

P.T.J. Cattell, BSc BEd DipCompSc *Qld*, MSc *Essex*, MACS

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M.G. Roggenkamp, BEd *James Cook*, DipCompSc MScSt *Qld*, MACS, MACM, AIEEE

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G. Semeczko, BSc(Hons) *Qld*, MACM, MIEEE

D. Taylor, BSc *Qld*, MSc *Virginia*, DECUS

R. Thomas, BSc *Trin.W.*, APDA

*Associate Lecturer:* J. Hogan, BSc(Hons) *Qld*

### School of Information Systems

*Head of School:* Professor M.P. Papazoglou, BSc PhD *Dund.*, MSc *Edin.*

*Associate Professor:* B.A. Underwood, BBus MS(MIS) *TexasTech*, MBA *Qld*, MACS

J.C. Owen, BA(Hons) *Lond.*, MA PhD *Qld*, AdvCertLibSc MLS *Pitts*, ALIA

#### Senior Lecturers:

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

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*Lecturers:*

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R.D. Andrews, DipT *Kelvin Grove*, BEd *Brisbane*, GDComComp  
M. Dixon, BSc *Sacramento*, MBA *San Francisco*  
D. Edmond, BSc(Hons) *Edin.*  
J.S. Goodell, BA *Lafayette Coll.*, MS AdvMLS PhD *Florida S.*, AAIM, ARMA  
E.M. Gurrie, BEd *State College of Vic.*, GDComp *Deakin*  
K. Ling, BSc *Melb.*, GDDP *Caulfield*, MCom *NSW*, GMIEA, MACS  
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  
A. Wheeldon, BSc(Hons) *N'cle(UK)*, MInfSys *Curtin*, MACS  
J.J. White, MA MLS *W.Ontario*, PhD *Qld*, ACS  
C.S. Willie, BA *Utah*, MBA *Br.Col.*

*Associate Lecturers:*

C.P. Edwards, BBus *Brisbane*  
S. Mitra, BSc *Delhi*, MTechnology *ITT, Delhi*

**Information Security Research Centre**

*Director:* Professor W. Caelli, BSc(Hons) *N'cle(NSW)*, PhD *ANU*, FACS, MIEEE  
*Visiting Fellow:* S. Russell, BE MEngSc DipCompSc *Qld*

**Faculty of Law**

*Dean:* Professor D.G. Gardiner, BA LLM(Hons) *Syd.*, Barrister  
*Associate Dean:* Professor M. Cope, BA LLB LLM *Qld*, 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:* Vacant

**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:*

G.R. Clarke, BA LLB *Qld*, LLB(Hons) *QIT*, Barrister  
S.G. Corones, BCom LLB PhD *Qld*, LLM *Lond.*, Solicitor (Qld, England and Wales)  
G.A. Egert, BA LLB *Qld*, Barrister  
G.E. Fisher, BA(Hons) LLB(Hons) *Qld*, BCL(Hons) *Oxf.*  
P.J.M. MacFarlane, BA *Flin.*, BLegS *Macq.*, LLM *Syd.*, Barrister  
A.L.W. Mason, LLM *Qld*, Solicitor  
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:*

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  
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Barrister (Qld, England and Wales)  
S.C. Fisher, LLB(Hons) *NSWIT*, Barrister and Solicitor (ACT), Solicitor (NSW, Qld)  
W.E. Harris, LLB(Hons) *QIT*, Solicitor  
S.M. Jackson, LLB(Hons) *QIT*, Solicitor  
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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  
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C.A. Rowell, LLB DipT *QIT*, Solicitor  
M.J. Shirley, BA LLB(Hons) *Qld*, GDLegalPrac, Solicitor  
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E.A. Webb, BA *Griff.*, DipEd *Qld*, LLB(Hons)  
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L.G. Wiseman, LLB(Hons) GDLegalPrac *QIT*, LLM *Lond.*, 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:*

A.N. Chantler, BSc *Qld*, GDTeach *Kelvin Grove*

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 *S.Aust.CAE*

C.J. Lennings, BA(Hons) MPsy *Syd.*

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

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

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

## **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., DC*, PhD *Qld*, DMT, FAIMLS

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

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

## **School of Chemistry**

*Head of School:* Vacant

*Senior Lecturers:*

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

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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:*

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M. Selby, BSc(Hons) PhD *NSW*, MRACI  
B.N. Venzke, MSc PhD *Qld*  
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*Senior Laboratory Technicians:*  
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E.P. Martinez, CIC, ADClinLabTech  
A.M. Schwede, CIC, ADAppChem  
P.R. Stevens, CIC, ADAppChem

### **School of Geology**

*Head of School:* D. Gust, BA *Lawrence*, MA *Rice*, PhD *ANU*  
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*Lecturers:*  
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A.T. Grenfell, BSc DipEd PhD *Qld*  
S.C. Lang, BSc(Hons) *Qld*  
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G.G. Shorten, MSc *Qld*, TCert *Kuring-gai*, MAusIMM  
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*Technologist:* W. Kwiecien, CIC, ADAppChem, BAppSc  
*Senior Laboratory Technician:* F. Robbins, BSc(Hons) *Dunelm*, MAusIMM

### **School of Life Science**

*Head of School:* Professor V.R. Sara, BA(Hons) PhD *Syd.*  
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A.G. Edwardson, BSc(Hons) *Birm.*, BEd *MEdSt Qld*, CBiol, MIBiol  
R.J. Epping, BSc(Hons) PhD *ANU*

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 L. Hafner, BSc(Hons) PhD *LaT.*, MASM  
 R.M. Harding, BSc(Hons) PhD *Qld*  
 B.V. Harmon, 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 *Salz.*, PhD *Qld*, ARCATS, MAIBiol  
 H.S.F. Loh, BSc *NE*, MASANZ  
 B.W. MacDonald, BSc(Hons) *Qld*, BAppSc, DMT  
 B.J. McMahon, MSc *Qld*, CBiol, MIBiol, MAIBiol  
 J.A. Marsh, MSc DipEd PhD *Qld*, ADBioILT *Capricornia*, QDAH  
 P.B. Mather, BSc(Hons) PhD *LaT.*  
 M. O'Brien, BSc(Hons) PhD *Qld*  
 M.B. Plenderleith, BSc(Hons) *Edin.*, PhD *Bristol*  
 A. Pope, BSc *Qld*, CT(IASC), CT(ASC), AAIMLS  
 R.J. Sheedy, BSc(Hons) PhD *Qld*  
 R.M. Sherrard, BSc(Hons) MBCLB, PhD *Sheffield*  
 J.R. Simpson, BSc(Hons) PhD *NSW*, DMT  
 B.G. Stevens, BSc(Hons) *Qld*  
 T.P. Walsh, BSc(Hons) PhD *Qld*  
 N.A. White, MAppSc  
 I. Williamson, BSc(Hons) *Griff.*, PhD *Flin.*  
*Associate Lecturers:*  
 M.F. Bateson, BSc(Hons) *Qld*  
 S.T. Hahn, BA *UCSD*, DipEd PhD *Qld*  
 M.H. Hargreaves, BSc(Hons) *Qld*, MASM  
 F. Horne, BAppSc *MLS*  
 T. Yi, BSc *Beijing*  
*Laboratory Manager:* N. Kerswill, BSc *Qld*, GDChemAnl GDMgt *Capricornia*

### School of Mathematics

*Head of School:* A.N. Pettitt, BSc(Hons) MSc PhD *Nott.*, FSS, MSSA  
*Associate Professor:* H. MacGillivray, BSc(Hons) PhD *Qld*  
*Senior Lecturers:*  
 V.V. Anh, BSc(Hons) PhD *Tas.*, MEc *NE*  
 C.M. Bothwell, BSc BEd MLitSt *Qld*, ALCM  
 E.P. Dawson, BSc DipEd *Wash.*, MA *Syd.*, MLitSt MSc *Qld*, PhD, AFICA  
 J. Gudgeon, BSc(Hons) *Hull*, MSc *Oxf.*, FIMA  
 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*  
 J. Wrigley, MSc MScSt *Qld*, MLitt *NE*, GradDipCompEd  
*Lecturers:*  
 R.N. Buttsworth, BSc(Hons) BA(Hons) MSc DipEd PhD *Qld*  
 C.C. Calder, BSc(Hons) MSc *Lond.*  
 G.P. Carter, CertT *Mt Gravatt*, BSc MScSt *Qld*  
 R.J.B. Fawcett, BSc(Hons) PhD *Qld*, AMusA, ATCL  
 D. Hill, BAppSc *QIT*  
 D. Huang, MSc PhD *Peking*  
 R.F. Hubbard, BA *NZ*, MLitSt *Qld*  
 M. Ilic, MSc *Qld*, PhD  
 M.T. Kelly, BSc DipEd MLitSt *Qld*

E. Kozan, MSc *METU*, PhD *HU*  
 M.R. Littler, BSc(Hons) *Lond.*, DipMaths(Tech) CEng, AFIMA  
 M.S. Mackisack, BSc(Hons) BA(Hons) DipEd PhD *ANU*  
 A. Markovic, BSc(Hons) *James Cook*  
 L.M. Scotney, BSc DipEd *Qld*  
 N.M. Spencer, BAppSc(Maths) ADElecEng *QIT*, PhD  
 B.S. Tasker, BA *NE*, MAppSc  
 I.W. Turner, MAppSc *QIT*, PhD *Qld*  
 E.M. Walker, BSc(Hons) *Qld*, MSc *Oxf.*, AIA *Lond.*, AAIA  
 D.F. Welburn, BSc *Qld*  
*Statistical Consultants:*  
 R. Darnell, DipBiometry *Syd.*, BAppSc *QAC*, MSc *NE*  
 M.A. Haynes, BMath *N'cle(NSW)*, MScSt *Qld*  
 S. Low Choy, BSc(Hons) *Qld*

### **School of Physics**

*Head of School:* B.W. Thomas, MSc PhD DipEd *W.Aust.*, FAIP, MACPSEM, FAIM  
*Principal Lecturer:* B.J. Thomas, BSc(Hons) PhD *W.Aust.*, 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 *Adel.CAE*, FAIP  
 T.G. Lewis, BSc BEd *Qld*, MSc *Aston*, MSc *Griff.*, DipRMS, MAIP  
 B.M. O'Leary, BSc DipEd *Syd.*, MSc *Sur.*, MAIP  
 L. Morawska, MPhysics DPhysics *Jagiellonian*  
 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, FIR, ASUM  
 M.M. Kaila, BSc(Hons) MSc *Delhi*, PhD *NSW*, MAIP  
 P.D. Killen, BSc(Hons) PhD *Qld*  
 G.J. Michael, BSc(Hons) PhD *Qld*  
 W.C. Middleton, MSc BEd *Qld*, MAIP, MAAS  
 G.I. Moore, BSc(Hons) PhD *Qld*  
 R.J. Norton, BSc *Qld*, MSc *Brun.*, MAIP  
 F. Quintarelli, BSc(Ed) BSc(Hons) PhD *Melb.*  
 P.A. Rowntree, DipAppSc GDEd(Tert) *Darling Downs*, MIR, ASSUM, AISRRT  
 D.E. Starkey, DipAppSc, MIR  
 J.D. Veitch, BArts (Ed) *Macq.*, CertRadiography(Therapy), MIR  
 C.F. Wong, DipSc *HK*, MSc *McGill*, PhD *Sask.*, MARPS, MAAPT

#### *Associate Lecturers:*

S.J. Coyne, BSc *Qld*, MAppSc (MedPhysics)  
 D.J. Pearce, BSc(Hons) DipEd *NE*  
 K.F. Tan, BSc(Hons) *Adel.*

*Technologist:* N.A. Raftery, BSc(Hons) BA *Qld*

*Laboratory Manager:* R. Bergman

#### *Senior Technicians:*

J.A. Jull  
 G.W. Kibbey



# RESEARCH CENTRES

## Australian Key Centre in Land Information Studies

The Australian Key Centre in Land Information Studies (AKCLIS) was established in 1985 and aims to be a world recognised Centre of Excellence dealing with geographic information (in its broadest sense) which is of academic and commercial significance to Australia.

Its founding members are QUT, the Queensland Government's Department of Lands and the University of Queensland.

The Centre's mission is to support and foster research, formal education and training in the land information industry; to support industry in developing new markets for Australia and abroad; to transfer and diffuse technology throughout the industry; and to seek funding for research and training programs.

During 1992, the Centre convened a national workshop attracting researchers and teachers from the private and public sectors and from teaching institutions across Australia to assist in identifying the most pressing requirements still outstanding in research, education and training, within its areas of scientific endeavour.

In 1991 the Centre delivered, participated in, or coordinated training programs totalling more than three work years for local interstate and international trainees. Over 80 per cent of the training conducted by the Centre was undertaken for overseas governments or in overseas locations. Extensive consultancies in training have been undertaken in South-East Asia and the South-West Pacific.

In an innovative advance in teaching remote sensing, the Centre 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.

The Centre 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, China.

More than 42 learned papers were presented in 1991 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 provides a focus for research and education in population management. Its initial activity was strongly directed to vertebrate pest management and this area remains the major strength of the Centre. This focus has been expanded to include aquaculture and plant tissue culture.

The Centre's goal 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 aquaculture and plant tissue culture
- ☐ offering international standard training and education in population biology, population management, aquaculture and plant tissue culture.

Its academic and research staff are from diverse areas of the biological sciences, ensuring a wide skills base and a multidisciplinary approach to complex research problems.

The Centre has 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 the Centre remains at the forefront of national research in these areas.

An international research profile has been developed through collaborative projects with universities, government agencies and the private sector in the Pacific, South-East Asia, USA, Mexico and Africa. These international links provide opportunities for staff exchange and collaborative research. The Centre is actively involved in research projects in Fiji, Malaysia, Indonesia and Mexico.

Centre activities 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, masters 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. The Centre also undertakes research for the ophthalmic and pharmaceutical industries 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 Centre's facilities and resources are unique within Queensland and provide a resource for the development of the visual and ophthalmic sciences and industries in the State.

*Director:* Professor L.G. Carney, BAppSc MSc PhD Melb., LOsc, FAAO

## Centre for Instrumental and Developmental Chemistry

The Centre for Instrumental and Developmental Chemistry was formed in January 1992. It emphasises high quality fundamental research and expert service of community needs through research, postgraduate education, development projects and consultancy.

### Research

The Centre specialises in three main areas:

#### Analytical Science

Research in this area was initiated within the now superseded Centre for Analytical Science. Project areas currently being researched in the analytical science program include the development of new analytical instrumentation; the use of chemometrics; the elucidation of three-dimensional structures of complex molecules by NMR, X-ray

diffraction and mass spectrometry; the use of vibrational spectroscopy for the characterisation of polymers, minerals, biological molecules and dyes.

### **Applied Organic Chemistry**

The program encompasses a wide range of industrial sectors, and research makes extensive use of the instrumental infrastructure of the Centre. Current areas of activity include the synthesis of new molecules for use in industrial electronics and in the medical field; the isolation and characterisation of new compounds of medicinal benefit from natural sources; the development of new synthetic procedures, especially those based on the use of enzyme technology; development of new procedures in enzyme fermentation, enzyme technology, and biochemical engineering and processing.

### **Corrosion Science and Applied Electrochemistry**

The corrosion science program has been well supported by industrial grants. Research includes the study of the corrosion of metals and alloys in industrial environments; investigation of the electrodeposition of copper during the refining process; and examination of the oxidative degradation of cotton and artificial fibres.

### **Consulting, Testing and Continuing Education**

The previous Centre for Analytical Science was very active in consulting and testing. This activity earned valuable funds and forged strong links with the industrial community, leading to joint research projects. The new Centre for Instrumental and Developmental Chemistry will continue and expand this activity. Centre staff have established a reputation in continuing education by developing short courses in corrosion science and in vibrational spectroscopy. These courses have been given in every capital city of Australia and in South-east Asia. Future opportunities exist for the Centre to expand its continuing education activities.

### **Equipment**

Activities revolve around sophisticated, high-cost instrumentation, including mass spectrometry, nuclear magnetic resonance spectrometry, fourier transform raman and infrared spectroscopy, and inductively coupled plasma emission spectrometry.

*Director:* P.M. Fredericks, BSc(Hons) DPhil *Sus.*, FRACI

## **Centre for Medical and Health Physics**

The Centre for Medical and Health Physics, formed in 1988, provides 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, especially because 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.

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

### **Education**

The Centre's staff provides 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
- ☐ Bachelor of Applied Science (Honours) – Medical Physics
- ☐ 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 short courses in:

- ☐ radiation health physics
- ☐ principles and practices of noise management
- ☐ management of noise in shops, offices, factories and their environs
- ☐ radiography
- ☐ environmental physics for industrial application
- ☐ diagnostic ultrasound.

### **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 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 *W.Aust.*, FAIP, MACPSEM, FAIM

## Centre for Molecular Biotechnology

The Centre for Molecular Biotechnology, established in 1988, 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 Centre focuses on research and postgraduate education in the area of recombinant DNA technology. The technology is utilised in three ways – to improve plant productivity by increasing the resistance to viral and fungal infections; to develop vaccines for human and animal use; and in the detection of infectious and genetic disease. Research is concentrated into a few programs, emphasising strategic grant-funded and contract research. Postgraduate education includes Masters, PhD and programs and components of the undergraduate, 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 Australian and overseas 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 seeks to promote a numerate and scientifically literate society by coordinating research in the teaching and learning of mathematics and science. It applies this research through graduate teaching, consultancy, curriculum development and the production of educational resources. It is affiliated with the Faculty of Education, with staff drawn primarily from the School of Mathematics, Science and Technology Education and with members from other schools and faculties. An administrative office, clinical facility, facilities for research assistants and higher degree students are located on Kelvin Grove campus.

## Research

Research is a major Centre priority. The research program may be classified broadly into four categories relating to mathematics, science and technology education:

- ☐ curriculum and instruction
- ☐ cognition and metacognition
- ☐ the social context of teaching and learning
- ☐ information-based technology applications.

The Centre offers PhD and MEd (Research) courses and a professional doctorate in education (EdD).

## Teaching

The Centre aims towards teaching excellence with a staff experienced in undergraduate, higher degree, continuing education courses, and in supervising theses in mathematics and science education. The Master in Education (MEd) and professional doctorate in education (EdD) degrees are offered by coursework and dissertation and allow specialisation in mathematics, science and technology education. Staff are active in writing teacher-education materials and classroom texts in mathematics and science education.

## Consultancy

Through consultancy, the Centre aims 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; in-service seminars and short courses for industry and educators; cooperative projects with business and the Department of Education; and writing and editing for publishers. The Centre welcomes enquiries for the provision of services to the profession and the community.

*Director (Acting):* Dr C. J. McRobbie, BSc Qld, MSc Pacific, PhD Monash

## Centre for Signal Processing Research

The Centre for Signal Processing Research grew from a significant research concentration in the rapidly expanding area of signal processing. Established in 1986, the concentration received Faculty Centre status in 1990 and University Centre status in 1991.

The Centre supports the majority of research students in the School of Electrical and Electronic Systems Engineering. Signal processing has a wide range of application areas and has undergone explosive growth within the last 10 years. The Centre is the focus for signal processing research in QUT. It also provides an important resource for industry, government, the engineering profession and the community in general. The Centre's research activities encompass both theoretical and applied aspects of signal processing.

The Centre offers high level technological expertise combined with an ability to apply research commercially and technically.

The Centre has four main objectives:

- ☐ to remain at the forefront of technological research advances
- ☐ to provide clients with state-of-the-art results
- ☐ to provide stimulating postgraduate education
- ☐ to maintain and enhance the University's research profile.

It serves to foster postgraduate research and teaching with 16 PhD candidates and three Masters students currently enrolled within the Centre. Staff have established good contacts with academics in other Australian universities, government funded research agencies and industries. They have also built up an international profile through conference attendance and research collaboration. The director of the Centre is the general Chairman of the International Symposium on Signal Processing and its Applications which is held biennially on Queensland's Gold Coast.

The Centre's researchers are active in the areas of image processing, signal theory and speech processing/signal compression. They undertake research for government agencies and industry to resolve a range of signal processing problems. Contracts are in place with granting bodies such as DSTO, CSIRO, Auspace and the Australian Federal Police.

The signal theory group has specialised in the areas of algorithm development for efficient signal processing implementation, detection of signal in noise, estimation of signal parameters in a noise-effected environment, sonar and radar applications and spectral analysis.

Speech processing/signal compression is involved in artificial neural network speech recognition, digital filtering, speaker verification for law enforcement agencies, voice encryption and scrambling and tape recording enhancement.

Image processing and computer vision areas have concentrated on analysis of data in digital images, the development of efficient algorithms, the enhancement of images for information recovery, robot vision, and computer recognition of three-dimensional objects and interpretation of images.

*Director:* Professor B. Boashash, BE *Lyon*, MSc PhD *Inst. Nat. Poly. Grenoble*, SMIEEE, FIREE

## Information Security Research Centre

The Information Security Research Centre, formed in July 1988, is a joint venture between industry and QUT's Faculty of Information Technology. Its Director, Professor W.J. Caelli is Chairman of Technical Committee 11 (Security and Protection in Information Processing Systems) of the International Federation for Information Processing (IFIP), an international body of computer professionals established in 1960 under the auspices of UNESCO.

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

The Centre has areas of major research concentration in:

- ☐ cryptology
- ☐ information security management



- security in telecommunications and computer networks, including electronic data interchange (EDI), electronic funds transfer (EFT) and open systems interconnection (OSI)
- database and operating system security.

The Centre supports other areas of research. For example:

- research into small system integrity (including viruses and anti-virus products) through the Computer Virus Information Group (CVIG)
- reverse engineering and tools for the analysis of software systems as well as computer architecture for secure systems (CASS) in collaboration with the Programming Languages Laboratory – School of Computing Science
- projects under the Distributed Systems Technologies Centre (DSTC), a Federal Government funded Cooperative Research Centre jointly set up by QUT, the University of Queensland, Griffith University and Bond University.

Since forming, 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 Centre has developed its educational role by offering research Masters and PhD programs as well as teaching specialist subjects for postgraduate coursework students.

*Director:* Professor W.J. Caelli, BSc(Hons) *N'cle(NSW)*, PhD ANU, FACS, FTICA

## Key Centre in Strategic Management

The Key Centre in Strategic Management was established by the Australian Research Council and the Department of Employment, Education and Training (DEET) in 1989 following a national competition that attracted a large number of applications to initiate key centres. The Key Centre is also funded by other important sources including the Queensland Government, Queensland Tertiary Education Foundation, and QUT. The Key Centre draws together expertise from QUT's faculties, from other institutions including the Australian Organisation for Quality, and Technical and Further Education (TAFE). It also has close links with many enterprises in the private and public sectors and with other universities and research centres around Australia and overseas. It is based at QUT's Gardens Point campus and provides QUT with a powerful resource which is being used to build even stronger links between education and enterprises, governments, unions and the wider community.

## Mission and Objectives

The Key Centre's mission is to maintain and further develop its role as a national and international centre of excellence in teaching and research on strategic management and management education, with a selective concentration on particular approaches.

Specific objectives are:

- to improve management education, skills and effectiveness in private- and public-sector enterprises, in the Centre's main areas of strategic management, currently quality management, human resources, employment relations and the possible transferability of 'Japanese' and other high-performance management strategies in Australia
- to investigate issues in its selected areas that could provide social and economic benefits for Australia and other countries; for instance, to explain the

interdependency among quality management, human resources and employment relations and by focusing on particular sectors including tertiary education, and technical and further education (TAFE); tourism; health; manufacturing; and small- and medium-sized enterprises

- to disseminate the Centre's findings by publishing, designing learning opportunities, public speaking, networking and providing advisory and consulting services
- to contribute to education, for example, via its Seminar Series, Management Certificates, Graduate Diploma in Quality, Master of Quality, PhD, Women in Management programs and various short courses
- to establish the Centre's position within Australia's changing systems of education and skill formation and thereby to contribute to the continuing development of QUT and of other educational institutions in TAFE as well as the tertiary sector
- to provide an environment in and around the Centre which fosters the development of staff and students' research skills and professional growth.

Research is a high priority for the Key Centre which is a hub for a network of researchers, including those at Honours, Masters, PhD and post-doctoral levels, visiting professors and teams of academics working with practitioners, some of whom are Key Centre associates. Its research is funded by a range of sources, from competitive research grants to contracts that involve applied research or consulting.

The Key Centre convenes seminars and conferences, publishes working papers and other publications and welcomes short-term and medium-term research visitors, for example, on secondment or study leave from within QUT or from other organisations.

The Key Centre's significant progress towards fulfilling its mission and objectives is illustrated in its books and other publications including its Annual Report, Working Papers, Reprints and Seminar Programs, which are available on request.

*Director:* Professor G.J. Bamber, BSc(Hons) *Manc.*, PhD *H-W Edin.*, CMAHRI, FAIM, FBIM, FIPM

*Queensland Government Professor of Quality Management:* I.W. Saunders, BA *Oxf.*, Dip MathStatist *Camb.*, PhD *ANU*

## Physical Infrastructure Centre

The Physical Infrastructure Centre is a national body for civil engineering research. Its role is to develop rehabilitation and management strategies together with new products for the civil engineering profession, government and industry.

The Centre is concerned with roads, railways, bridges, water and waste water treatment plants, urban drainage and solid waste treatment systems, building structures and associated earthworks, pavements and materials. The Centre undertakes consultation, continuing education and research in these areas.

The Centre has been in existence since 1990 and has attracted industry projects to the value of \$802 173.

These 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.

Australia's physical infrastructure assets are valued at several billion dollars. The Physical Infrastructure Centre is contributing to Australia's economic performance by ensuring this resource is maintained and operated at the highest level.

Since 1989, staff involved in the Centre have produced 133 refereed journals and conference proceedings and 73 other publications. The Centre presently has 23 researchers and 71 postgraduate students.

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

# 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 1992 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: P. Duncan, DipTeach Syd.TC., BLitt ANU, MEd Canb.*

## 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 QUT and the major Christian denominations. There are presently two full-time chaplains working at 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 below:

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

**KELVIN GROVE**, room C420, Community Building, telephone (07) 864 3135.

**KEDRON PARK**, telephone (07) 864 4290.

**CARSELDINE**, level 4 of the Community Building, telephone (07) 864 4529.

## Computing Services

Computing Services provides the core computing infrastructure, services and support for QUT. Computing Services:

- ☐ provides and maintains the university-wide data communications network with links to worldwide data networks
- ☐ provides and maintains a wide range of central computing facilities
- ☐ maintains and supports a range of computing software
- ☐ designs, develops and maintains corporate and departmental information systems to assist in the management of the university
- ☐ provides information services and help to its clients
- ☐ delivers training courses to university staff and postgraduate students
- ☐ provides and manages personal computing laboratories for teaching and student use
- ☐ supports the university's research program through a specialised team, which facilitates the use of computers in research and especially the use of the university's Supercomputer
- ☐ supports all aspects of workstation use through a team which provides hardware, software, and communication assistance
- ☐ has a contracting service which provides departments of the university with programming, survey data analysis, and data entry services on a contract basis.

## Hours

Mainframe computers are available 24 hours a day, 7 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 from 7.15 am to midnight Monday to Friday and 8.45 am to 5.15 pm on weekends semesters and many weekends between semesters.

Most computing laboratories are open 24 hours a day, 7 days a week. They either allow open access or special access to authorised students.

Full information on system scheduling, backup times, opening hours, and operator coverage is provided by the Computing Services Help Desk on (07) 864 4275.

## Student Registration

To use any of the mainframe computer systems, students must be registered. A registered user is said to have an account, although no charges are made for the legitimate educational use of computing facilities at QUT. Teaching staff will arrange accounts for their students in any subject where use of a mainframe computer is required. A student will have a separate account for each subject requiring mainframe use.

Each registered user is given a user name and a password. It is important to keep the password secret because the registered person is held responsible for any misuse of an account. Please refer to the Computing Services *Getting Started* booklets, introducing the various mainframe systems, for methods of changing passwords and recommended strategies for choosing passwords.

Students are required to sign an undertaking that they will respect the rules of Computing Services relating to computer use. These 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.

## Campus Computer Centres and Laboratories

The major systems are housed in a machine room at the Gardens Point campus. All campuses have Computing Services Offices, which act as a contact point for university staff and focus for computing activities there.

Computing Services also manages approximately 16 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 1-2-3, dBase IV, and DrawPerfect.

Many of the laboratories may be booked for classes, but at least one laboratory on each campus cannot be booked, and so is always open for student use.

An introduction to the use of computing facilities at QUT is provided by the Computing Services publication *Student Computing Guide* available from QUT Bookshops.

## 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.

## User Assistance

Computing Services provides a broad range of assistance to 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. Staff may seek help by visiting 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.

## **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 student information system, the personnel/payroll 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.

## **Workstation Support**

A specialised team provides support to university staff in their use of terminals, personal computers and workstations. The support includes hardware, software and communications support.

As part of this service staff undertake to maintain and repair items from a list of supported computing equipment. This list of supported equipment is available from Computing Services to aid sections of the university in planning and making purchases. It covers a wide range of equipment at a range of price levels.

## **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 data and voice traffic. More than 3000 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 an 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 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.

## 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 6610 with 128 megabytes of memory. The cluster has a total of 18.7 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 Convex C 220 mini-supercomputer providing superior research computing facilities. It has a dual processor, an integrated vector processor, 128 megabytes of memory, 4 gigabytes of disk storage, and a tape drive. The operating system is Unix;
- a McDonnell-Douglas Series X system, model 1000 with two quad processors, 320 megabytes of memory, and 4.6 gigabytes of disk storage is operated and maintained by Computing Services for the Library. It runs under the Unix operating system and the Reality database system. The library applications software, provided by General Automation, is Urica 2000. The software includes an On-line Public Access Catalog, circulation, and acquisitions modules;
- a Hewlett-Packard HP 3000, which is primarily for student administration. It has 96 megabytes of memory, 5.6 gigabytes of disk space, and one tape drive. The operating system is MPE/XL.

## Mainframe Software

A wide range of software is provided for research, teaching, office automation, and personal productivity purposes. This includes programming 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, and users have a choice of mail interface, including PC Mail, Vax Mail, Unix mail, and HP Desk.

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

## Counselling and Health Services

The Department of Counselling and Health is an autonomous professional department of QUT, 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 and Employment 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 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 community agencies 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. Services include:

**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 additional 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 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 additional 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 additional needs. Assistance with physical and study facilities and informing appropriate staff of additional needs can be expedited with early notice. An information booklet – *A Guide to Students with Disabilities* – is available on request from the counsellor.

## **International Students**

### **The International Students Program**

QUT welcomes international students to its four Brisbane campuses. All full-time degree courses offered by QUT are accredited for offer to international students. QUT also offers a range of preparatory programs to assist international students to meet academic and English language requirements for entry to QUT courses.

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

There are a number of sections within QUT with specific responsibilities for aspects of the International Students Program.

## **International Relations Unit**

The International Relations Unit is part of the Office of Educational Services within the QUT Division of Research and Advancement.

The International Relations Unit is responsible for the international promotion of QUT. Specifically, the Unit:

- ☐ coordinates publication and distribution of QUT international promotional material
- ☐ arranges for the representation of QUT at international recruitment activities
- ☐ manages the University's relationship with Australian Education Centres, commercial agents, and other relevant private and public sector agencies
- ☐ manages the University's institutional exchange programs
- ☐ receives international visitors.

### **GARDENS POINT CAMPUS**

Telephone: (61 7) 864 2200

Fax: (61 7) 221 0313

## **The Office of International Students**

The Office of International Students is located in the Student Administration Department and is responsible for the administrative aspects of the International Students Program. The Office undertakes the following:

- ☐ answers all written enquiries and advises students regarding admission and course requirements for all courses including the Foundation and Bridging Programs processes all international student applications
- ☐ makes all offers and monitors course quotas
- ☐ handles all visa related matters
- ☐ collects tuition and Medibank payments and administers refund policy
- ☐ administers international student scholarships.

### **Application and Enrolment**

All international students, except those studying Year 12 in Australia, should apply on a QUT 'F' form. Year 12 international students in Australia should apply through the Queensland Tertiary Admissions Centre (QTAC). Applications and general information about entry requirements and tuition fees for all courses may be obtained by writing to the Office of International Students.

All degree students must meet the minimum English language entry requirements of IELTS 6.5 or TOEFL 575 for entry to be confirmed. Some linguistically demanding courses (such as Communication courses and postgraduate Business) require IELTS 7 or TOEFL 600.

Following acceptance of an offer and payment of one semester's fees and one year's 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.

### **Attendance**

To meet student visa regulations, students must fulfil all course requirements. This includes full-time enrolment, defined as 75 per cent or more of a full-time credit load for the course. Special approval must be obtained through the Office of International Students for part-time study.

## **Fees**

Full tuition fees are charged for students enrolled in 75 per cent or more of a full-time credit load. Fees include student guild payments and all international student support services including airport greeting, accommodation service and English language support. International students are exempt from the Higher Education Contribution Scheme (HECS).

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

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

Tuition fees are partially refunded to students who withdraw from their 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. Fees are levied on a pro rata basis as for other part-time international students.

## **KELVIN GROVE CAMPUS**

C Block

Telephone: (61 7) 864 3142

Fax: (61 7) 864 3529

## **International Student Services**

Living and studying in a new country requires significant adjustment in terms of language, culture and style of learning. In addition to the academic and professional challenges, students experience considerable personal and social development. Because international students do not have their usual sources of support and assistance (family, friends, community groups) available to them, QUT provides extensive support services.

International Students Services is located in the Department of Counselling and Health and is responsible for the following:

- ☐ preparation of pre-departure briefings
- ☐ arrangement of on-arrival reception and accommodation
- ☐ conducting Orientation Programs
- ☐ offering direct counselling and welfare support
- ☐ developing student and community support networks
- ☐ arranging social and cultural activities
- ☐ offering English as a second language and learning skills support
- ☐ ensuring preparation for students returning home
- ☐ assisting graduate employment.

## **GARDENS POINT CAMPUS**

Lower Level

Community Building, Y Block

Telephone: (61 7) 864 2383

Fax: (61 7) 864 1522

## **KEDRON PARK CAMPUS**

Ground Floor

D Block

Telephone: (61 7) 864 4290

Fax: (61 7) 864 4499

## **KELVIN GROVE CAMPUS**

Top Floor  
Community Building  
Telephone: (61 7) 864 3488  
Fax: (61 7) 864 3998

## **CARSELDINE CAMPUS**

Level 4  
Community Building  
Telephone: (61 7) 864 4539  
Fax: (61 7) 864 4999

## **International Education Programs**

The International Education Programs' major functions are to help international students meet QUT entry requirements. Courses offered include:

- ☐ the Foundation Program
- ☐ the Bridging Program
- ☐ English language programs.

### **QUT Foundation Program**

The QUT Foundation Program prepares international students for courses at university level. It provides students who do not meet degree entry requirements with an opportunity to prepare for entry into QUT faculties.

QUT Foundation Program students who attain the minimum results for entry to a degree, as specified by the relevant faculty, will be guaranteed a place in the QUT degree course for which they have applied.

### **QUT Bridging Program**

The Bridging Program is designed for students who plan to study at QUT in an undergraduate or postgraduate program in the following year and who already meet minimum academic admission criteria for their course. The Program is available in second semester, commencing in July.

Students will be given an opportunity to:

- ☐ familiarise themselves with QUT and its facilities, eg libraries, computer systems
- ☐ revise and learn new skills in English language where necessary
- ☐ develop an understanding of academic skills needed for tertiary study in Australia
- ☐ study a unit for degree credit
- ☐ make friendships and establish a network of contacts.

### **QUT General English (GE) courses**

General English courses are offered in six-week sessions. Courses cater for students at all levels of English language from elementary to intermediate and advanced.

### **QUT English for Academic Purposes (EAP) courses**

The English for Academic Purposes course caters for students with an advanced level of English who are about to commence a degree program at university.

The EAP program aims to develop specific English language skills and other skills needed to undertake academic study successfully in Australia.

## **INTERNATIONAL EDUCATION PROGRAMS**

### **KELVIN GROVE CAMPUS**

Telephone: (61 7) 864 3611  
Fax: (61 7) 864 3085

## **QUT International Training Programs**

Programs have been developed and conducted for groups of international participants for Queensland agencies, corporations, government departments and overseas universities. The QUT Continuing Education Unit will respond quickly to requests for specifically designed training programs from anywhere in the world.

### **CONTINUING EDUCATION UNIT**

Telephone: (61 7) 864 2196

Fax: (61 7) 221 2822

## **QUT Foundation**

The QUT Foundation promotes the University's reputation through activities that strengthen links with QUT and the wider community. Interaction among our closest associates contributes to the lifelong learning of members and extends the quality of QUT's research and education programs.

The QUT Foundation offers a number of avenues through which students, graduates and friends can keep in touch.

QUT students undertaking their first full-time course are eligible for free Associate Membership. Associate members receive invitations to Foundation functions, *Inside QUT*, *QUT Links* magazine and a 10 per cent discount at the QUT Bookshop.

All QUT Foundation members can also join an Alumni. The chapters are based on common professional, industry, faculty, geographic or other interest areas. Established alumni include Education, Built Environment and Engineering, Nursing, Home Economics, Law and the MBA Association.

For further information and membership applications please telephone the Alumni-Relations Coordinator on (07) 864 2821 or visit the Development Office, Gardens Point campus.

## **University Library**

Students and staff of the Queensland University of Technology have access to a wide range of information and audiovisual 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 a library. Opening hours details are available through the Library catalogue and 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 cards 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. Details are available from Loans Desks.

## 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. Persons interested in these programs may wish to contact the User Education Coordinator (ext 1592). As well, teaching staff may 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, and appropriate consultancy are also available. Guides to collections and services may be found on all campuses near the main entrance.

# PRIZES AND AWARDS

## Faculty of Arts

### **4MBS Prize**

Awarded to the student who gives the best performance of a distinctly twentieth-century music composition at the annual competition in October.

### **Australian Academy of Music Prize**

Awarded to the student who gives the best performance of a Jazz and Popular Music piece at the annual competition held in second semester.

### **Charles Hall Prize**

Awarded to the best student on the basis of results in music in the Bachelor of Arts degree from each of years one and two.

### **Dorothy Birt Memorial Prize**

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

### **Robert and Kay Bryan/Jack Manton Art Prize**

Awarded to the final year student of the Bachelor of Arts (Visual Arts) who has submitted the most outstanding work in one or more studio areas.

## 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 units nominated by the prize donor, and in most instances students do not apply for the awards.

### **AFCC Civil Engineering Award\***

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

### **AFCC Construction Industry Award\***

Donated by the Australian Federation of Construction Contractors and 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.

### **Association of Public Authority Surveyors Prize**

Awarded to the Bachelor of Applied Science (Surveying) first year student who obtains the best academic result in the unit 'Land Surveying 1'.

### **Australian Asphalt Pavement Association (Queensland Branch) Prizes**

Awarded:

- ☐ to the student in the Bachelor of Engineering (Civil) who shows the most promise in the unit 'Highway Engineering'; and

\* Indicates those few prizes which require students to apply in order to be considered.



- to the student in the Bachelor of Engineering (Civil) who shows the most promise in the unit 'Transport Engineering 1'.

#### **Australian Design Awards Student Award**

Awarded to the student developing the most outstanding product design during their industrial design studies at QUT.

#### **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 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 Bachelor of Applied Science (Quantity Surveying) with 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 units in the School of Mechanical and Manufacturing Engineering dealing with refrigeration, air conditioning or heating.

#### **Australian Road Federation (Queensland Region) Road Study Award**

Awarded to a student in the Bachelor of Engineering (Civil) who prepares the best assignment in the unit 'Transport Engineering 1'.

#### **Australian Water and Waste Water Association/Don King-Scott Memorial Prize**

Donated by the Queensland Division of the Australian Water and Wastewater Association in memory of Don King-Scott's contribution to public health engineering in Queensland and awarded to the graduating student who gains the highest aggregate mark in the units 'Water Quality Engineering', 'Public Health Engineering Practice' and 'Advanced Treatment Processes' in either the Graduate Diploma in Municipal Engineering or the Master of Engineering Science (Civil).

#### **Paddy Behan Memorial Prize for 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 unit 'Landscape Design'.

#### **Paddy Behan Memorial Prize – Planning Study**

Donated by the Local Government Association of Queensland and awarded to the student with the best performance in the 'Planning Thesis' in the Master of Built Environment (City and Regional Planning).

## **Board of Architects of Queensland Prizes**

Awarded:

- ☐ to the student who shows the greatest proficiency during the first three years of the architecture courses; and
- ☐ to the student who has shown the greatest proficiency on graduation from the Bachelor of Architecture.

### **Andrew Brock Memorial Prize**

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

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

Donated by the Local Government Engineers Association (Queensland Branch) and Mrs R. S. Brodribb, and awarded to the student who exhibits the most outstanding performance in those units 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 of a Bachelor of Engineering, has the potential to become a useful member of the engineering profession. The prize is determined with 60% based on grade point average and 40% based on a personal interview to assess: interpersonal skills, participation in campus activities and future plans in the profession.

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

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

### **Kevin John Davies Prize for Leadership and Innovation**

Donated jointly by ERSIS Australia Pty Ltd and the School of Surveying and awarded to the graduate of the Graduate Diploma in Surveying Practice who has exhibited leadership skills and demonstrated a capacity to look to the future and who has the potential to provide leadership in innovative technology.

### **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.

### **The Director-General Department of Lands Prize for the Dux of the Course**

Awarded to the graduate who achieves the highest aggregate marks in the Graduate Diploma in Surveying Practice course.

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

Awarded to the final year student in the Bachelor of Engineering (Electrical and Computer Engineering) or the Bachelor of Engineering (Electronics)/Bachelor of Information Technology who submits the final year project of exceptional merit in an area of technology relevant to microwave radar.

\* Indicates those few prizes which require students to apply in order to be considered.

### **Electric Energy Prizes**

Donated jointly by QEC and SEQEB and awarded:

- 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 units relevant to electric energy; and
- to the graduate of the Associate Diploma in Electrical Engineering with the best performance in designated units relevant to electric energy.

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

Awarded to a final year degree student from the engineering and surveying schools for excellence in the presentation of a seminar. The seminar may be based on final year project work or on an industry-related project. 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.

### **Golder Associates Geotechnical Engineering Studies Award\***

Donated by Golder Associates and awarded to a student of the Bachelor of Engineering (Civil) who has obtained high aggregate marks for the units '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.

### **James Hardie Design Award**

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

### **James Hardie Prize for Building**

Awarded to the student in the third year of the Bachelor of Applied Science (Construction Management) with the best results over five semesters in the 'Construction' units.

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

Donated by Hardie Iplex Pipelines and awarded to a student enrolled in the penultimate year of the Bachelor of Engineering (Civil) and the Associate Diploma in Civil Engineering. The awards are made on the basis of academic performance in units related to water engineering or engineering practice, together with consideration of the student's interests and involvement in engineering practice and activities both within QUT and the community.

### **Heilbronn and Partners Pty Ltd Prize**

Awarded to the student with the highest average result in the units 'Land Development Practice 1' and 'Land Development Practice 2' in the Bachelor of Applied Science (Surveying).

### **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'.

### **Institute for Drafting and Design Anstralia Prize**

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

\* Indicates those few prizes which require students to apply in order to be considered.

**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 Information Technology.

**Institution of Engineers, Australia – J. H. Curtis Award**

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

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

Awarded to the final year student in the Bachelor of Engineering (Electrical and Computer Engineering) or the Bachelor of Engineering (Electronics)/Bachelor of Information Technology with the highest grade point average who is also a student member of the Institution of Engineers, Australia.

**Institution of Surveyors, Australia (Queensland Division) Centenary Prize**

Awarded to a second year student of the Bachelor of Applied Science (Surveying), who demonstrates a good academic record and a sincere interest in the surveying profession.

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

Donated jointly by the Institution of Surveyors, Australia (Queensland Division) and Peter W. Dawson and Associates Pty Ltd, and awarded to the graduate of the Graduate Diploma in Surveying Practice who has demonstrated a thorough understanding of the legal responsibilities of surveyors, 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**

Awarded to the final year student of the Bachelor of Applied Science (Surveying) 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.

**IRÉE-MITEC Awards**

Donated by the Institute of Radio and Electronics Engineers, Australia (Brisbane Division) and MITEC Australia Ltd and awarded:

- ☐ to the student who performs best in units relating to electronics and communications in the final year of the Bachelor of Engineering (Electrical and Computer Engineering); and
- ☐ to the student who performs best in units relating to electronics and communications in the final year of the Associate Diploma in Electrical Engineering.

**Jasco Pty Ltd Prize**

Awarded to the part-time Associate Diploma in Mechanical Engineering student who gains the best aggregate mark for 'Engineering Drawing 1' and 'Engineering Drawing 2', and who successfully completes all units in semesters 1 and 2 and enrolls in all units for semester 3.

**Keilar Fox & McGhie Pty Ltd Prize for Mapping**

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

**John Kindler Memorial Prize\***

Awarded in memory of Mr John Kindler, former Chief Engineer in the Coordinator General's Department, to a graduate of the Bachelor of Engineering, for outstanding performance throughout the course. Selection is based not only on academic

\* Applications required.

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.

**Karl Langer Memorial Award**

Donated by the Australian Institute of Landscape Architects and awarded to the student in the Graduate Diploma in Landscape Architecture 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 with the best performance in the unit 'Data Presentation 1' in the Bachelor of Applied Science (Surveying).

**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 units: 'Civil Engineering Design 2', 'Traffic Engineering', '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 mark in the unit 'Financial Management for Engineers' in the final year of the Bachelor of Engineering (Mechanical).

**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.

**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 units 'Geotechnical Engineering 2' and 'Geotechnical Engineering 3'.

**MIM Holdings Ltd Prize**

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

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

Awarded to the final year student in the Graduate Diploma in Urban and Regional Planning 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 who successfully completes all units 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.

**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 who has achieved a high level of proficiency and demonstrated significant potential in cadastral surveying.

## **QEC Awards for Instrumentation and Control**

Awarded:

- ☐ to a student in the Associate Diploma in Electrical Engineering 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 (Electronics)/Bachelor of Information Technology for high academic performance in the field of instrumentation and automatic control.

## **Queensland Cement Ltd Prize**

Awarded to the fourth year student in the Bachelor of Applied Science (Construction Management) with the best academic performance in building technology units 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 QUT, with the best performances in the following courses: Bachelor of Engineering (Civil) – part-time, Associate Diploma in Civil Engineering – cadet draftsman, and Bachelor of Engineering (Civil) Queensland Department of Transport scholarship holder.

## **RACQ Prize in Highway Engineering**

Donated by the Royal Automobile Club of Queensland and awarded to the final year student in the Bachelor of Engineering (Civil) who attains the highest average marks in Highway, Traffic and Transportation units, 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 judged to have the highest standard in both content and presentation on a topic related to the Quantity Surveying profession.

## **Noel Robinson Architects Prize**

Awarded to the Dux of the sixth year of the Bachelor of Architecture determined by the best overall grade point average.

## **Rocla Prize**

Donated by Rocla Concrete Division and awarded to the Bachelor of Engineering (Civil) third year student who achieves the best academic results from both the final examination and class assignment in 'Construction Planning and Economics' and 'Construction Practice'. The student selected must show an aptitude for construction management.

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

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

## **Royal Australian Planning Institute Prizes**

Awarded:

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

**Michael P. Schloman Memorial Prize**

Donated by Astra Panels Pty Ltd and awarded to a 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.

**A. G. Scott Memorial Prize**

Donated by Mr and Mrs R.W. Scott in memory of their son Mr A.G. Scott, a graduate of the Bachelor of Engineering (Mechanical). The prize is awarded to the student in the Bachelor of Engineering (Mechanical) who demonstrates the greatest improvement in innovative ability and competence in mechanical engineering design, or attains the best overall performance in design work.

**Society for Growing Australian Plants Prize**

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

**Society of Engineering Associates Award**

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

**Surveying Staff Land Studies Prize**

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

**Telecom Engineering Prize**

Awarded to a third year full-time student in either the Bachelor of Engineering (Electrical and Computer Engineering) or the Bachelor of Engineering (Electronics)/Bachelor of Information Technology 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) 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 Master of Built Environment (City and Regional Planning), who submits the best option project in the final year of the course.

**VIPAC Engineers and Scientists Ltd Award**

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

**George Wimpey Australia Pty Ltd Awards**

Awarded:

- ☐ to the student with the best performance in the first year of the Bachelor of Applied Science (Property Economics);
- ☐ to the second year student in the Bachelor of Applied Science (Property Economics) with the best performance in the unit CNB626 Land Development Studies;
- ☐ to the student with the best overall performance in the second year of the Bachelor of Applied Science (Property Economics).

### **Carl Zeiss Pty Ltd Prize**

Awarded to the student in the Associate Diploma in Cartography who obtains the best average result in the units 'Photogrammetry 2' and 'Photogrammetry 3'.

## **Faculty of Business**

### **Accountancy Placements Pty Ltd Prize**

Awarded annually to the student either full-time or part-time, enrolled in the Bachelor of Business, who attempts for the first time the unit 'FNB123 Managerial Accounting 1' and achieves the best academic result.

### **Advertising Institute of Australia Prize**

Awarded to the Bachelor of Business – Advertising graduand who achieves the highest aggregate marks in the seven unit Advertising major.

### **AITD Student Award for Excellence**

Awarded to the three students either full-time or part-time who achieve the best academic results in each of the units 'HRB120 Introductory Training and Development', 'HRB101 Advanced Training Development' and 'COB102 Consulting for Organisational Change'.

### **AMP Society Award**

Awarded to the student group which produces the best community relations project in the unit 'MKB117 Public Relations Campaigns'.

### **ANZ Bank Award for Excellence**

Awarded to the student enrolled in the Bachelor of Business undertaking the Banking and Finance major 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 full-time or part-time student enrolled in the Bachelor of Business – Accountancy major, Bachelor of Business – Banking and Finance major or the combined Bachelor of Business – Accounting/Bachelor of Laws course entering their final year of study. The student will have completed at least 16 units. Selection criteria will include an interview based on motivation, communication skills, initiative and career orientation.

### **Association of Brisbane Commercial Radio Stations Prize**

Awarded to the Bachelor of Business – Journalism graduand who has achieved the best overall results in Radio Broadcasting units.

### **Association of Taxation and Management Accountants Prizes**

- ☐ Awarded to the student either full-time or part-time enrolled in the Bachelor of Business – Accountancy who has achieved the best academic result in the units 'FNB123 Managerial Accounting 1' and 'FNB124 Managerial Accounting 2'.
- ☐ Awarded to the student either full-time or part-time enrolled in the Bachelor of Business, undertaking the Accountancy extended major, who has achieved the best academic result in the unit 'ALB132 Taxation Law'.

### **Australian Association of National Advertisers Prize**

Awarded to the Bachelor of Business – Advertising graduand major full-time or part-time who attains the most meritorious overall results in the last eight semester units studied.

### **Australian Human Resources Institute Prizes**

- ☐ Awarded to the graduating student with the highest performance in the Bachelor of Business – Human Resource Management.



- ❑ Awarded to the second year student either full-time or part-time with the highest performance in the Bachelor of Business – Human Resource Management.

#### **Australian Institute of Bankers Prize**

Awarded annually to the student either full-time or part-time who obtains the highest aggregate marks in the unit 'FNB114 Financial Institutions – Lending'.

#### **Australian Institute of Management Prizes**

- ❑ Awarded to the Bachelor of Business – Management student, either full-time or part-time for high achievement on completion of units which comprise the first full-time year of the Bachelor of Business.
- ❑ Awarded to the Bachelor of Business – Human Resource Management student, either a full-time or part-time student for high achievement on completion of units which comprise the first full-time year of the Bachelor of Business.
- ❑ Awarded to the Bachelor of Business – Management student, either full-time or part-time for consistently high achievement on completion of units which comprise the second full-time year of the Bachelor of Business.

#### **Australian Society of Certified Practising Accountants Prizes**

- ❑ To qualify, a student must be studying the Bachelor of Business majoring in Accountancy or Banking and Finance full-time for the first time. The student must pass at least eight units in the first year of enrolment including: 'AYB110 Accounting', 'AYB111 Financial Accounting' and 'ALB110 Business Law'. The student with the best grade point average over the best eight units is the recipient of the prize.
- ❑ Awarded to the full-time graduating student in the Bachelor of Business majoring in Accountancy or Banking and Finance, who completes the degree in minimum time, who is eligible for membership of the Australian Society of Accountants and who has the best grade point average.
- ❑ Awarded to a student studying in the Bachelor of Business majoring in Accountancy or Banking and Finance full-time over the previous two years who has completed at least 16 units. The second year student with the greatest grade point average over the best eight units studied in the second year of enrolment is the recipient of the prize.

#### **BHP Australia Coal Limited Prize – Graduate Diploma of Business**

Awarded to the most outstanding graduate.

#### **Margaret Cameron Memorial Award**

Awarded to the woman student, either full-time or part-time, enrolled in the Bachelor of Business, who takes the unit 'BSB102 Management and Organisation' and at the first attempt obtains the highest commendable mark among the women students of the current academic year.

#### **Commonwealth Bank Award**

Awarded to the Bachelor of Business student either full-time or part-time who, at the first attempt, achieves the best academic result in the unit 'EPB140 Macroeconomics'.

#### **Coopers and Lybrand Prize**

Awarded annually to the student either full-time or part-time, enrolled in the Bachelor of Business majoring in Accountancy or Banking and Finance, who attempts for the first time the unit 'AYB112 Company Accounting' and achieves the best academic result.

#### **Country Press Award**

Awarded to the student who achieves the best academic result in the unit 'MJB124 Magazine and Feature Writing'.

**Dalgety Winchcombe FGC Prize**

Awarded to the Bachelor of Business – Journalism student who produces the best piece of print or electronic journalism on a unit of interest to the rural community.

**Dean's Award for Excellence**

Awarded to the top graduating student in each of the Bachelor of Business courses.

**Deloitte Ross Tohmatsu Prize**

Awarded to the student enrolled in the Bachelor of Business undertaking the Accountancy major who, at the first attempt, achieves the best academic result in the unit 'AYB101 Computerised Accounting Systems'.

**Douglas Heck Award**

Awarded to the graduating student in the Bachelor of Business, majoring in Accountancy, in each calendar year who passes the units 'FNB123 Managerial Accounting 1' and 'FNB124 Managerial Accounting 2' for the first time and obtains the highest average grade over the two semesters.

**Duesburys Chartered Accountants Prizes**

- Awarded to the student enrolled either part-time or full-time in the Bachelor of Business majoring in Accountancy or Banking and Finance, who takes the unit 'ALB120 Company Law and Practice' for the first time and achieves the best academic result in that unit.
- Awarded to the student enrolled in the Bachelor of Business – Accountancy major, who takes the unit 'ALB122 Law of Business Associations' for the first time and gains the highest result at the semester examinations.

**EDP Auditors Association Prize**

Awarded annually to the full-time or part-time student who achieves the highest mark, at the first attempt, in the unit 'AYB212 Computer Security and Audit'.

**Federation of Australian Radio Broadcasters Prize**

Awarded to the student who achieves the highest grade in 'MJB138 Radio and Television Journalism 2'.

**Golden Casket Strategic Marketing Prize**

Awarded annually to the third year student full-time or part-time enrolled in either the Bachelor of Business – Marketing, Bachelor of Business – Advertising or Bachelor of Business – Public Relations course who achieves the best academic result in the unit 'MKB155 Strategic Marketing'.

**Karen Howitt Memorial Prize**

Awarded to the student who, in their final full-time or part-time year of the Bachelor of Business – Public Relations, reflects best through extra curricular activities the aims and objectives of the course.

**Merv Hoskins Memorial Prize**

Awarded to the Bachelor of Business student majoring in Accountancy or Banking and Finance who achieves, at the first attempt, the best academic result in the units 'AYB110 Accounting' and 'AYB111 Financial Accounting' in one academic year.

**Human Resource Management Group Prize**

Awarded to the Bachelor of Business student either full-time or part-time who, at the first attempt, achieves the best academic result in the unit 'HRB105 Human Resources and the Organisation'.

**ICI Australia Ltd Prize**

Awarded to the final year student enrolled in the Bachelor of Business – Marketing who achieves the best overall performance.

**Institute of Chartered Accountants, Australia Prize**

Awarded to the full-time or part-time Bachelor of Business student majoring in Accountancy who takes the units ‘ALB113 Accounting Theory and Practice’, ‘AYB210 Auditing’ and ‘ALB132 Taxation Law and Applications’, for the first time and obtains the highest aggregate pass in all three.

**KPMG Peat Marwick Prizes**

- ☐ Awarded to the full-time or part-time Bachelor of Business student majoring in Accountancy who, at the first attempt, takes the second year unit ‘AYB210 Auditing’ and achieves the best academic result.
- ☐ Awarded to the full-time or part-time Bachelor of Business student majoring in Accountancy or Banking and Finance who, at the first attempt, achieves the best academic result in the unit ‘AYB111 Financial Accounting’.

**Malcolm Moore Medallion**

Donated by the Australian Institute of Management in honour of a founder member of the Institute. This prize is awarded to the outstanding student who has performed at a consistently high standard while enrolled in the Bachelor of Business.

**Media Monitors Queensland Prize**

Awarded to the student who achieves the highest overall grade point average in the units ‘MKB129 Publicity and Promotion – Print’, ‘MBK130 Publicity and Promotion – Electronic’ and ‘MKB117 Public Relations Campaigns’. This represents the student who holds the highest achievement in the area of Media Relations.

**MIM Holdings Ltd Prizes**

- ☐ Awarded to the Bachelor of Business – Journalism student who produces the best public affairs radio program for ‘MJB138 Radio Television Journalism 2’.
- ☐ Awarded to the Bachelor of Business student who obtains the best overall results in this course.

**Mobil Oil Marketing Prize**

Awarded to the Bachelor of Business – Marketing student either full-time or part-time who, at the first attempt, achieves the best academic result in the unit ‘MKB141 Marketing Management’.

**PRIA “Maurice Stitt” Awards**

Sponsored by PRIA (Queensland) and awarded to the Bachelor of Business – Public Relations graduate who has demonstrated academic distinction in the public relations units, and has epitomised the highest standards of the public relations profession. (2 awards)

**Queensland Newspapers Prize for Journalism**

Awarded to the graduating student full-time or part-time with the best overall performance in the Bachelor of Business – Journalism.

**Queensland Tourist and Travel Corporation Prize**

Awarded to the student full-time or part-time enrolled in the unit ‘MKB129 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 Bachelor of Business student who produces the best marketing research report in the unit ‘MKB151 Marketing Research’.

### **Royal Australian Institute of Public Administration Prizes**

- Awarded to the Bachelor of Business – Public Administration student either full-time or part-time who, at the first attempt, achieves the best academic results in the units 'EPB159 Public Policy' and 'EPB155 Policy and Program Evaluation'.
- Awarded to the Bachelor of Business – Public Administration student either full-time or part-time who, at the first attempt, achieves the best academic results in the units 'EPB154 National Government' and 'EPB113 Critical Analysis'.

### **Society of Business Communicators Queensland Prize**

Awarded to the student enrolled in the Bachelor of Business who demonstrates the best overall performance in the units 'COB138 Written Communication: Theory and Practice', 'COB159 Research Concepts and Techniques', 'COB106 Group Communication: Theory and Practice'. The recipient of the award should also be a student member of the Society of Business Communicators (Queensland) at, or prior to, the time of graduation.

### **J.F. Storr Prize**

Awarded at intervals to the student who, being a member of the Australian Society of Certified Practising Accountants, being resident in Queensland, and not being a full-time student, takes the unit 'FNN106 Managerial Accounting Honours' for the first time and achieves the best academic result in that unit.

### **Taxation Institute of Australia Prize**

Awarded to the full-time or part-time Bachelor of Business student majoring in Accountancy or Banking and Finance who achieves the best academic result in the unit 'ALB132 Taxation Law'.

### **Turnbull Fox Phillips Public Relations Award**

Awarded to the student who is judged to have prepared the best Financial Communications report on an organisation in the unit 'MKB132 Government and Financial Relations'.

### **Sidney Webb Memorial Prize**

Awarded to the Bachelor of Business – Human Resource Management student either full-time or part-time who, at the first attempt, achieves the best academic result in the unit 'HRB131 Personnel Management and Industrial Relations'.

## **Faculty of Health**

### **Allergan Optical Prize**

Awarded to the third year student who gains the highest aggregate mark in the units 'Optometry 5' and 'Optometry 6'.

### **Allergan Hydron Prize**

Awarded to the third year student who gains the highest mark in the unit '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 project within the unit 'Environmental Health 6'.

**Centaur Memorial Fund for Nurses Award**

Donated by the committee of the Centaur Memorial Fund for Nurses and awarded to the student who gains the highest grade point average in the final semester of the Bachelor of Nursing (Pre-registration) course.

**Robert Chan Award for Clinical Dietetics**

Awarded to the student who demonstrates outstanding application of clinical dietetics, based on performance in the unit '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 unit '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 Award**

This award is available to students in all courses in health. 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 degree.

**Home Economics Professional Associations Prize**

The Home Economics Association of Queensland, the Queensland Association of Home Economics Teachers and the Home Economics Alumni offer two annual prizes of \$500 for excellence in home economics studies.

**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 units '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.

**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 units 'Health Management 1' and 'Health Management 2' of the Bachelor of Business – Health Administration.

**Queensland Meals on Wheels Services Assoc Inc Prize**

Awarded to the top student in the unit '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 unit '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 units '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 unit 'Medicine and the Law' in the Bachelor of Business (Health Administration).

**Safety Institute of Australia Medal**

Awarded for outstanding academic performance to one graduand of the Graduate Diploma in Occupational Health and Safety and one graduand of the Bachelor of Applied Science – Occupational Health and Safety.

**Spotless Catering Services Prize**

Awarded to the student enrolled in the Graduate Diploma in Nutrition and Dietetics who submits the best report in the unit 'Practice in Food Service Management'.

**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 units 'Computer Architecture' and 'Advanced Computer Architecture'.

**Britannica Reference Award**

Awarded to the student completing the Graduate Diploma in Library Science who takes the unit '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).

**Library Board of Queensland Merit Award**

Awarded to the full-time student who completes the Graduate Diploma in Library Science within the time period appropriate for normal progression, and achieves the highest aggregate marks in the course.

**NCR Australia Pty Ltd Prize**

Awarded to the Bachelor of Business (Computing) student who takes the unit 'Information Systems Management' for the first time and obtains the highest pass in the unit at the semester examinations.

**Queensland Online Users Group/Orbit Prizes**

Awarded to the two students who perform best in the 'Online Information Services' unit within the Graduate Diploma in Library Science.

**Faculty of Law**

The following prizes are subject to final approval by respective donors and may be changed or withdrawn without notice.

**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 units studied for the LLB degree.\*

**Justin Geldard Memorial Prize**

An annual prize of \$400 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 units 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 units '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 for the answer to a civil procedure problem which involves pleadings.\*

\* Criteria subject to final approval.

## 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 articled 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 articled 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 units.

A prize of \$300 awarded each year to the second-year full-time LLB student with the second highest aggregate mark in Law units.

A prize of \$700 awarded each year to the third-year full-time combined Accountancy/Law student with the highest aggregate mark in Law units.

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 units.

### **North Queensland Law Association Bursary**

A bursary of \$300 awarded each year to the first-year student (who is not a full-time student and who is articled in the North Queensland Law Association district) with the highest aggregate mark in the first-year Law units 'Introduction to Law' and 'Law of Contract'.

### **Primrose Couper Cronin Rudkin Prize**

A prize of \$555 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'.

### **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.

*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'.

#### **Family Law Practitioners' Association Prize**

A prize of a book voucher to the value of \$100 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 unit 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 \$220 awarded each year to the best student in 'Legal Research Writing 1'.

\* Subject to final approval.

**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 units 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 unit '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 School 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 units 'Clinical Biochemistry 5' and 'Clinical Biochemistry 6'.

**Australian Institute of Medical Scientists Prize**

Awarded to the graduating student who obtains, with distinction, the highest aggregate marks over all of the clinical techniques units of the Associate Diploma in Clinical Techniques – Laboratory strand.

**Australian Laboratory Services Pty Ltd Prize**

Awarded to a full-time or part-time student of the Bachelor of Applied Science (Applied Chemistry) or the multidisciplinary Bachelor of Applied Science with major studies in Chemistry, who has the best results in the final year Analytical Chemistry units.

**Alan Bailey 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).

**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.

**Australian Society of Parasitology Prize**

Awarded to the student with the highest mark in the practical component of the unit 'LSB500 Microbiology 5'.

**David Barry Memorial Prize**

Awarded to the graduate with the best overall academic performance in the Biology major of the Associate Diploma in Applied Science.

**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.

**Centre for Biological Population Management Prize**

Awarded to the outstanding student in the final year of the Bachelor of Applied Science (Biology).

**Centre for Medical and Health Physics Prize**

Awarded to the student who, in the opinion of the Director of the Centre, is the best graduand of the Master of Applied Science – Medical Physics strand.

**CRA Exploration Mapping Prize**

Donated by CRA Exploration Pty Ltd and awarded to the best project student in the Bachelor of Applied Science (Geology) for demonstrated ability in geological mapping.

**George Edward Curphey Prize in Mathematics**

Awarded to the student enrolled in the Bachelor of Applied Science (Mathematics) 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) 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 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).

**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).

**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) respectively, who obtain the best performance in the clinical practice units 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 unit 'Treatment Planning 1' of the Bachelor of Applied Science (Radiotherapy Technology).

**Geological Society of Australia Medal**

Awarded to the graduand who obtains the best results in the Bachelor of Applied Science (Geology).

**Colin Graham Memorial Prize**

Awarded from monies held in trust to the graduand from the Bachelor of Applied Science (Applied Chemistry) who, in the opinion of the Head of the School of Chemistry, has the best academic record over the length of the course.

**Noel Middleton Gutteridge Memorial Prize**

Donated by the Australian Institute of Medical Scientists, 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).

**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).

**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).

**Incitec Ltd Prize**

Awarded annually to a full-time or part-time student of the Bachelor of Applied Science in Applied Chemistry or the multidisciplinary Bachelor of Applied Science with major studies in Chemistry who, in the opinion of the Head of School, 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).

**Kodak Prize**

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

**I.M. & M.J. Mackerras Prize**

Donated by the Australian Institute of Medical Scientists, and awarded to the student who gains the highest pass with distinction in the unit area of 'Medical Parasitology' within the unit 'Microbiology 5'.

**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).

**Meadow Lea Foods – J.L. Forsyth Memorial Prize**

Donated by Meadow Lea Foods and awarded to the student who has shown the greatest proficiency in the units 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).

**MIM Holdings Limited Prizes**

- ☐ Awarded to the student who obtains the highest mark in the unit 'Field Excursions 6' in the Bachelor of Applied Science (Geology).
- ☐ Awarded to the student who obtains the highest mark in the unit 'Engineering Mathematics' in the Bachelor of Applied Science (Mathematics).

**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 (Geology) 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 units 'Plant Physiology 1' and 'Plant Tissue Culture 1' in the multidisciplinary Bachelor of Applied Science.

**PESA (Qld) Geology Award**

Awarded to the student who obtains the highest results for the third year Geology units relating to the petroleum industry.

**Physics Staff Prize**

Awarded to the student completing the second year of the multidisciplinary Bachelor of Applied Science 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 units 'Plant Tissue Culture 2' and 'Plant Physiology 2' in the Bachelor of Applied Science (Biology).

**Population Management Prize**

To be awarded to the student with the highest aggregate marks in the units 'Population Management' and 'Case Studies in Population Management' in the Bachelor of Applied Science (Biology).

**Prospectors Supplies Pty Ltd Prize**

Awarded to the first year student of the Bachelor of Applied Science (Geology) 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 units 'Microbiology 5' and 'Clinical Bacteriology 6' in the Bachelor of Applied Science (Medical Laboratory Science).

**J.R. Saal Prize**

Donated by the Australian Institute of Medical 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 units of the Bachelor of Applied Science (Medical Laboratory Science).

**Sea World Prize**

Awarded to the student with the highest aggregate marks in the final year of the Bachelor of Applied Science (Biology).

**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).

**Charles O. Schloman Memorial Prize**

Donated by Astra Panels Pty Ltd, and awarded to the student undertaking the Bachelor of Applied Science (Applied Chemistry) or the Chemistry major of the multidisciplinary Bachelor of Applied Science who, in the opinion of the Head of School, 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) or the multidisciplinary Bachelor of Applied Science – Chemistry major who, in the opinion of the Head of School, shows at the first attempt, the greatest proficiency in the second year Physical 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.

**School of Mathematics Staff Prizes**

Awarded to the students enrolled in the Bachelor of Applied Science in Mathematics who, in the opinion of the Head of the School of Mathematics, obtains the best results in the mathematics component of each year of the full-time program or its equivalent and is in the Honours year.

**Surface Coatings Association (Qld Section) Prize**

Awarded to a final year student enrolled in a course within the School 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.

**Velseis Geophysics Prize**

Awarded to the graduand with the highest aggregate marks in the units 'Geophysics' and 'Applied Geophysics'.

**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, 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 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 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.

### Campus Student Information Centres

The range of equipment for use by students includes photocopiers, wordprocessing machines, thermal copiers, and typewriters.

Other services provided through these Centres include identity photos, stationery and stamp sales, Queensland Teachers Credit Union Agencies (Kelvin Grove, Kedron Park, Carseldine), photodeveloping, 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 1680; Kelvin Grove telephone (07) 864 3704; Kedron Park telephone (07) 864 4016 and Carseldine telephone (07) 864 4714.

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

Free specialist advice is available to members on how to apply for Austudy or appeal a decision on Austudy eligibility. For more information telephone (07) 864 4009.

#### LEGAL SERVICE

The Guild retains Caxton Legal Service to provide advice and assistance free to students. Appointments can be made through the relevant campus Student Information Centre.

#### 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 accidents in certain circumstances. Enrolled students are covered 24 hours a day. 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.

#### PART-TIME EMPLOYMENT

A member of staff is available to assist students with seeking part-time employment whilst they are studying. Students can also receive advice about résumé writing and interview techniques. A range of job opportunities is displayed on noticeboards at Student Information Centres. For more information contact the Student Employment Officer on (07) 864 4007 or check with the relevant campus Student Information Centre.

#### 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 open at Carseldine during 1993. For further information about child care services contact the Child Care Coordinator on (07) 864 4032.

#### SECONDHAND BOOKSHOPS

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

#### EXTERNAL STUDENTS' SERVICES

The Guild will pay for the cost of postage of QUT Bookshop and secondhand book purchases on behalf of external students. The Guild also has a 008 telephone line available to external students for queries regarding Guild services, local information for students attending study schools and assistance for students pursuing academic appeals or other grievances related to their studies. This line is available Monday to Friday from 8.30am to 5.00pm and is 008-773 219. (Please note: all queries regarding units, course materials, assignments, etc should be directed through the appropriate channel within the External Studies Section.)

#### COURSE EVALUATION HANDBOOK

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

### **FITNESS CENTRES/GYMNASIUMS**

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), sports medicine clinics, and other recreation activities.

### **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.

### **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 Officer (Gardens Point) telephone (07) 864 1685; Recreation Officer (Kelvin Grove) telephone (07) 864 3708; Recreation Officer (Kedron Park) telephone (07) 864 4019; Recreation Officer (Carseldine) telephone (07) 864 4716.

## Media and Publications

### STUDENT NEWSPAPER

The Guild regularly publishes a free community newspaper called 'UTOPIA' to which students can contribute. It 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 4012.

### 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, reading and coffee and tea-making facilities. 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.

### WOMEN'S LIBRARY

A wide range of books and publications is available for borrowing from the women's resource library which is available through your campus Student Information Centre.

### 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 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).

## 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.

### 'DEGREES' CAFE

'Degrees' is a licensed cafe run by the Guild at Gardens Point. 'Degrees' offers a wide range of reasonably priced meals and snacks. For more information contact the Guild on (07) 864 1666.

#### GRADUATION GOWN HIRE AND SALE

The Guild hires out gowns, hoods and mortarboards for graduation ceremonies or photographs. Hire fees are gowns \$17, hoods \$8 and mortarboards \$5. Academic regalia is also available for sale. Telephone (07) 864 1666.

#### LEGAL REGALIA FOR SALE

The Guild sells a range of regalia for the legal profession including wigs and wig cases, jackets, gowns, bibs and bags. Telephone (07) 864 1666.

#### STUDENT LOUNGES

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

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 900 international and Australian paintings, sculptures, decorative arts and works on paper. These holdings represent the fourth largest public art collection in Queensland.

Established in 1945, the collection encompasses historical and contemporary works, spanning the period from the late eighteenth century to the present day. The greatest strengths lie in the extensive collection of works by Queensland-based artists from the 1940s onwards and the outstanding holdings of Australian art of the 1970s, particularly paintings, prints and ceramics.

The collection features a number of excellent Australian paintings of the 1970s by Lesley Dumbrell, John Firth-Smith, Richard Larter, Alun Leach-Jones, Keith Looby, Victor Majzner, Allan Mitelman, John Olsen and Ken Whisson.

QUT's rapidly expanding collection of Australian prints comprises works by artists who were actively involved in the graphic arts during the 1970s such as George Baldessin, Roger Kemp, Bea Maddock, John Olsen, Lloyd Rees and Jan Senbergs. These significant holdings form an interesting complement to earlier prints by Margaret Preston, Lionel Lindsay, Murray Griffin, Elaine Haxton, Charles Blackman, Arthur Boyd and Fred Williams. The collection has recently been enriched by the acquisition of several contemporary prints, including fine examples by Ray Arnold, Pam Debenham, Barbara Hanrahan, Diane Mantzaris, Banduk Marika and Mike Parr.

QUT possesses a small but distinguished group of twentieth century American and European prints by Georges Braque, Alexander Calder, Hans Hartung, R.B. Kitaj, L.S. Lowry, Henry Moore, William Scott, Graham Sutherland, Victor Vasarely and Paul Wunderlich. In addition, the collection contains some outstanding Japanese woodcuts of the late eighteenth and nineteenth centuries.

Contemporary Australian ceramics have been acquired consistently since the early 1970s and several important purchases have been made. Highlights include major sculptural pieces by Olive Bishop, Margaret Dodd, Marea Gazzard and Lorraine Jenyns, and exquisite vessels by Stephen Benwell, Greg Daly, Gwyn Hanssen-Pigott, Carl McConnell, Milton Moon, Jenny Orchard and Alan Peascod.

Acquisitions made during the past two years reflect the high priority and commitment given by QUT to the work of young, emerging artists. The purchase of representative works by Gordon Bennett, Dean Bowen, Eugene Carchesio, Thecla Puruntatameri, Anne Wallace and Judy Watson exemplifies the significance and depth of this commitment.

Displayed in various designated spaces at QUT's four Brisbane campuses, the collection is a rich cultural and educational resource, offering the opportunity for students, staff and the wider community to enjoy and study fine works of art by leading Australian and international artists.

Policy, procedures and funding of the collection are determined by the Art Collection Committee, comprising senior staff members of the University and external members appointed by the Vice-Chancellor. The Committee is currently chaired by QUT's Chancellor, Victor Pullar AO.

Development, management, research, preservation and display of the collection are administered by the University Curator, Stephen Rainbird and Assistant Curator, Tracy Muche. For further information telephone (07) 864 3240.

# 2

## Student Rules

# CONTENTS

## Student Rules, Policies and Procedures

Enrolment.....	95
Sanctions on Students who Fail to Meet Obligations .....	101
Non-award Studies .....	102
Transfer of Credit.....	103
Assessment .....	105
Review of Grades and Academic Rulings .....	110
Unsatisfactory Academic Performance and Exclusion.....	112
Student Appeals.....	114
Higher Education Contribution Scheme .....	116
Student Guild Fee Rules .....	117
Miscellaneous Student Charges.....	118
International Students .....	120

## Policy Statements

Assessment Provisions for Students with Disabilities.....	144
University Medals .....	145

# STUDENT RULES, POLICIES AND PROCEDURES

The following rules are based on those existing prior to 1991 at the Queensland University of Technology and the Brisbane College of Advanced Education. They aim to provide the least disadvantage to continuing students. If a student considers that they have 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 1994* which is available from QUT's Admissions Section.

## 1. Enrolment

### 1.1 Deferral of enrolment

Commencing students may be granted deferral 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 deferral is until the first semester of the following academic year. Unless otherwise specified, deferral is automatic in undergraduate courses. Deferral is not normally granted for postgraduate courses.

### 1.2 Failure to enrol following admission

If 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 to conform with offer

Commencing students are required to enrol as specified in the University's letter of offer as regards to course and, where applicable, major, attendance mode or campus.

### 1.4 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.

## **1.5 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 published closing date. An enrolment form lodged after the closing date may be accepted at the discretion of the Registrar on payment of a late fee. Students who fail to re-enrol will be subject to cancellation of enrolment.

## **1.6 Personal information**

Students are obliged to provide personal information for statistical purposes as required by the Commonwealth Government.

## **1.7 Mailing address**

FORM:	Change to Enrolment Form (Form C).
SOURCE:	Enrolments Office, Kelvin Grove campus; Campus Administration Offices.
SUBMIT TO:	Enrolments Office, Kelvin Grove campus; Campus Administration Offices.

Students are 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 a sufficient excuse for missing a deadline or an obligation.

## **1.8 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.

## **1.9 Nomination of enrolment program**

### **1.9.1 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 units 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.

#### 1.9.2 Prerequisites and co-requisites

A prerequisite unit is one which must be passed before the student proceeds to a further unit which has the prerequisite so specified. A co-requisite is one which, if not previously passed, must be studied concurrently with another unit with which it is a co-requisite.

A Head of School may permit a student to undertake a unit 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 unit.

#### 1.9.3 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.

### 1.10 Change to enrolment program

FORM:	Change to Enrolment Form (Form C).
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 units in which they have been officially enrolled.

#### 1.10.1 Addition and substitution of units

Students may add units 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.

#### 1.10.2 Cancellation of units

Students may cancel their enrolment in units 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 units undertaken in the first or second semester:

- (i) **Cancellation in the first two weeks of the semester:** The units 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 units concerned. A 'Withdrawn' unit 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 units, provisions (i) and (ii) above apply only to the initial semester of the unit. For cancellation at any time in the second or subsequent semester of a multi-semester unit a result of 'Withdrawn – Failure' is awarded.

For units undertaken in the Summer School period:

- (i) **Cancellation in the first two weeks of the Summer School:** The units 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.

### 1.11 Change of course or major

Offers of admission to commencing students specify the particular course and, where applicable, major for which the offer is made. Students are required to enrol as specified (see Rule 1.3) and complete at least the first semester accordingly.

#### 1.11.1 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.

#### 1.11.2 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.

### 1.12 Change of attendance mode

FORM: Intra-Faculty Changes Form (Form I).  
SOURCE: Faculty Administration Office.  
SUBMIT TO: Faculty Administration Office.

#### 1.12.1 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 units in a semester by external study.

#### 1.12.2 Procedure

Offers of admission to commencing students will specify the attendance mode for which the offer is made. Students are required to enrol as specified (see Rule 1.3) 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.

#### 1.13 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.

#### 1.14 Exceptions

In special circumstances Deans of Faculties may approve exceptions to policies set out above in 1.11 – 1.13, 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 1.11.1 (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.

#### 1.15 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.

#### 1.16 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 unit or units at QUT or another tertiary institution:

- (i) in place of core units listed in the course structure; or
- (ii) in satisfaction of elective or other requirements where the unit is not listed in a schedule of units for such purposes AND where the unit 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 unit is offered by another QUT Faculty, the approval of the Dean of Faculty offering the unit is required.

Where alternative studies involve units taken at QUT, the units 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.

### **1.17 Leave of absence**

FORM:	Cancellation/Leave of Absence Form (Form L).
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'.

### **1.18 Cancellation of enrolment**

FORM:	Cancellation/Leave of Absence Form (Form L).
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 1.10.

### **1.19 Re-admission following a period of non-attendance or 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 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.

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 well before 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.

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 units completed prior to the absence. The course coordinator may require a student to repeat units which have been passed previously or to undertake additional units in order to satisfy the current course requirements.

### **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 Certificate	2 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 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 units from an award course without enrolling in the course itself.

Non-award students receive normal instruction, assessment and examination results in such units 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 units for credit towards an award course at an Australian Commonwealth-funded institution;
- ☐ visiting students who undertake units 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 unit 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 unit/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 unit/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 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 units 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 unit 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 (Appendix 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 unit 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 the 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 requires the student to complete the equivalent of one year of full-time study.

In practice, credit will be approved for all suitable units until:

- (i) all suitable units 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 unit for which credit is sought.

#### 4.2.2 Unspecified exemption

Where course rules permit, exemption may be given from an unspecified unit 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**

Admission applicants who also intend to apply for credit should do so immediately they are in possession of all the required documentation. Applications may be submitted before an offer of admission has been received, and must be submitted before the stipulated due date. Applications received after the due date may not be processed in time for first semester unit choices to be adjusted to reflect credit granted; applications received after the census date in any semester cannot be effective for that semester.

Students already enrolled in a QUT course who become eligible to apply for credit should ensure that their application is submitted before the due date for any semester in which the award of credit might affect their unit enrolment.

#### **4.3.2 Documentation**

Applicants are responsible for providing an official transcript of results and copies of the outline or syllabus of units completed. Before doing so, applicants are encouraged to contact the appropriate course coordinator to determine which of their former units 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 unit.

#### **5.2 Notification of assessment requirements**

In the first two weeks of a unit, students will be advised in writing of assessment requirements for the unit. 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 unit and the students taking the unit, 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 unit 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 unit 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 units. 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 unit, 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**

5.13.1 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 unit concerned;
- (ii) the award of Low Fail results in all units 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 breach of assessment 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 Note)
- S3 Pass Supplementary; final grade awarded following satisfactory completion of supplementary assessment. (See Note)
- or, where approved for use, S – Satisfactory

#### Fail Grades

- 2 Fail
- S2 Fail Supplementary
- 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 Appendix 2. Grades of S3 are not regarded as equivalent to grades of 3 for purposes of Table 2.)

#### Other Results

- E – Exempt
- W – Withdrawn

### 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.         |
| SA – Supplementary Assessment | – Student is to undertake supplementary assessment. |
| DA – Deferred Assessment      | – Student is to undertake deferred assessment.      |
| 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.

$$\text{GPA} = \frac{\sum (\text{credit points of unit} \times \text{numeric value of grade})}{\sum (\text{credit points of unit})}$$

**Notes:**

- ☐ The GPA calculation includes all attempts at units 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 units are included (not units taken at an external institution);
- ☐ only units 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 units set out in the course structure, except that in certain specified units 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 Appendix 2.

## **6. Review of grades and academic rulings**

FORMS:	Application for Review of Grade, Application for Review of 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**

During the course of a semester students should discuss their progress in all coursework exercises (including examinations which form part of progressive assessment) with relevant teaching staff, 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.

Any student who believes that an error has been made or an injustice done with regard to a final grade for a unit may request a review of the grade.

Where, after discussion, the student believes that an error persists or that the final grade is not a fair reflection of their work, the student may request a review at the end of semester following notification of the final grade.

The review process may involve three steps.

### **Step 1 – Informal consultation**

Upon notification of the final grade, a student who is dissatisfied with the grade should contact relevant teaching staff (lecturer, unit coordinator, course coordinator) and seek clarification of the reason for the grade.

### **Step 2 – School-level review**

If a student remains dissatisfied after step 1, or if the student is unable to make contact with relevant teaching staff, an application for a formal review may be submitted. Applications must be made on an Application for Review of Grade Form.

Applications normally must be submitted to the Registrar within 14 days of the release of the results, accompanied by appropriate information and documentation if available, and must state the specific grounds on which the application for review is based.

The application for review is forwarded to the Head of School responsible for the unit in dispute, who determines the form of the review. The University requires that minimally any such review consider whether all items of assessment have been marked and whether the aggregate marks were compiled accurately.

The Registrar normally advises students of the outcome within 14 days of receipt of the application.

### **Step 3 – Faculty-level review**

A student who is dissatisfied with the outcome of step 2 may apply to the Registrar within seven days of receipt of such notification to progress to a further stage of review. The student must resubmit the application for review form stating why the previous review was inadequate and may provide additional reasons or evidence for the further review.

The application is forwarded through the chairperson to the faculty review committee, which is a sub-committee of the faculty academic board, and which minimally must comprise the dean (or nominee), a member of academic staff and a student representative appointed by the faculty academic board. The quorum of the committee is two. The committee determines whether grounds exist for the further review.

The process for step 3 requires the faculty involved, through the relevant Head of School, to reconsider the assessment of the item(s) in dispute. All such reconsiderations must be accompanied by a written rationale for the final decision reached, to ensure that due process has been observed and that a record exists of the decision.

Outcomes of such reviews must be endorsed by the faculty-level review committee. The committee determines whether reviews have been conducted appropriately, monitors the

number and type of reviews conducted and reports on its activities to the faculty academic board.

The Registrar normally advises students of the outcome within 14 days of receipt of the application.

Reviews may lead to no change or to either a less favourable or more favourable outcome for the student.

Reviews under steps 2 and 3 involve separate fees, which are reimbursed if a higher grade is awarded following the review.

## **6.2 Review of academic rulings**

Students who have received advice of a ruling in regard to an academic matter (for example, amount of credit awarded, cancellation of units, amendment of enrolment program, refusal of application to waive prerequisite), and who wish to be provided with further information on the basis and implications of the ruling, should contact their faculty office. Faculty administration officers will provide available information in response to such a request, or arrange for the student to have further discussions as deemed appropriate in the circumstances.

If, after having received such further advice, the student believes that an error has been made or that a ruling is unjust, the student is entitled to submit an application for review. Applications must be made on an Application for Review of Academic Ruling Form.

Applications must be submitted to the Registrar within 14 days of mailing of written advice of a ruling. 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.

Applications are referred to the relevant dean of faculty, who determines the form of the review. A review may lead to no change or to either a less favourable or more favourable outcome for the student. The Registrar advises students of the outcome of reviews.

## **6.3 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 unit 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 unit 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 semester, and their applications may be accepted or rejected by the Registrar on the recommendation of the relevant Dean of Faculty.



## **7.1 Probationary enrolment**

A student is placed on probationary enrolment if:

- (i) the student fails a unit 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 unit is uniquely identified by the unit code. Where a unit code has been changed on administrative grounds, the unit will be deemed to be the same unit 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 their 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 unit.

Designated units are indicated in Appendix 3 and include professional experience units, practice teaching units, units requiring the development of particular skills and units requiring certain personal qualities. A satisfactory level of performance in a designated unit 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 units in the course or courses from which they have 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 readmitted 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 readmitted to the course during that year. If the student's Grade Point Average since readmission 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, units 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 been excluded 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.

Appellants may be invited to present their case to the Academic Appeals Committee at a time nominated by the Committee. An appellant may choose to be accompanied by a companion. The companion would not speak unless invited to do so by the Chair of the

Committee. A representative of the Equity Board may be invited to attend the Academic Appeals Committee.

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.

Appellants may be invited to present their case to the Academic Appeals Committee at a time nominated by the Committee. An appellant may choose to be accompanied by a companion. The companion would not speak unless invited to do so by the Chair of the Committee. A representative of the Equity Board may be invited to attend the Academic Appeals Committee.

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 units 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 exclusion 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.

Appellants may be invited to present their case to the Academic Appeals Committee at a time nominated by the Committee. An appellant may choose to be accompanied by a companion. The companion would not speak unless invited to do so by the Chair of the Committee. A representative of the Equity Board may be invited to attend the Academic Appeals Committee.

### **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*.

Students 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 unit 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 Membership of the Guild**

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 they have 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 they are 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 their enrolment cancelled or may have sanctions imposed as specified in Rule 2.

### **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	\$130
Part-time students	\$ 58
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 grades (refundable)	
Step 2 – School-level review*	\$ 10
Step 3 – Faculty-level review*	\$ 20
Statement of Academic Record	\$ 5
Re-issue of ID Card	\$ 5
Late collection of ID card	\$ 10
Re-issue of Award Certificate	\$ 40
Re-issue of receipt for fees paid	\$ 5
Late fee for up-front HECS payment	\$ 50
Re-issue of Notice of HECS liability	\$ 5

## 11.3 Deposit system for use of laboratory facilities

A student enrolled in any unit included in the 'Schedule of Units 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 units 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.

# APPENDIX 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.

\* Refer to 6.1 Review of grades.

- (i) **Course development/review:** When developing and/or reviewing units with common or closely linked vocational outcomes, TAFE.TEQ and QUT will work in consultation with a view to establishing automatic equivalence. Units 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 units. While a normal exemption would comprise 96 credit points (Associate Diploma), in certain circumstances additional credit may be awarded.
- (iii) **Individual unit exemptions:** Where there is a close equivalence between TAFE.TEQ and QUT units and/or they have been prepared jointly, then the student will be given credit for individual units 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 unit blocks, individual units 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.TEQ).

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:

\* All semester values refer to full-time or equivalent. QUT operates on standard length semesters of 48 credit points.

- (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)
 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.

## International Students

For general information regarding international students and programs available refer to the General Information Section of the Handbook.

## Advanced Standing Arrangements for Students with Overseas Qualifications

QUT offers advanced standing to students who have successfully completed post-secondary courses in their home country. The following tables provide a sample of specific arrangements approved by the relevant Faculty. Students must meet minimum academic and English language requirements prior to entry.



## ☐ Faculty of Engineering

Students with Diplomas from Ngee Ann Polytechnic and Singapore Polytechnic in a similar study area are eligible for the following courses:

### **BACHELOR OF ENGINEERING (ELECTRICAL AND COMPUTER)**

**Course Duration:** 2.5 years full-time

Candidates with a notional GPA of 6.00 or above may be exempt from the first six months of the program.

#### **Hrs/Wk**

#### **Year 1, Semester 2 (July)**

EEB206	Vacation Practice 1*	5 weeks
EEB401	Network Theory 2	3
EEB430	Engineering Fields	3
EEB474	Microprocessors	3
EEB520	Control Engineering	3
	One General Elective Unit	2

#### **Year 2, Semester 1 (February)**

COB137	English for Technologists	3
EEB553	Electrical Power Equipment	3
EEB620	Control Systems Analysis	3
	OR	
EEB661	Information Theory & Noise	3
EEB562	Transmission & Propagation	3
EEB573	Industrial Electronics	3
EEB587	Design 1	3
MAB893	Engineering Mathematics 3	3

#### **Year 2, Semester 2**

EEB406	Vacation Practice 2*	5 weeks
	OR	
EEB531	Electrical Power Transmission	3
EEB601	Realtime Operating Systems	3
EEB602	Signal Processing	3
EEB621	Advanced Control Systems	3
EEB788	Design 2	3
EEB967	Digital Communications	3
EEB971	Applied Electronics	3
MAB894	Engineering Mathematics 4	3

#### **Year 3, Semester 1**

EEB652	Power Electronics	3
	OR	
EEB662	Microwave & Antenna Techniques	3
EEB742	Power Systems Engineering	3
	OR	
EEB968	Digital Signal Processing	3
EEB789	Project*	6
EEB821	Production Technology and Quality	3
EEB887	Design 3	3
	One Technical Elective Unit	3

#### **Year 3, Semester 2**

EEB606	Vacation Practice 3*	5 weeks
EEB741	Power Systems Analysis	3
	OR	
EEB890	Advanced Information Technology Topics	3
EEB820	Engineering Management	3

\* Do not enrol in this unit until completion of vacation practice.

EEB888	Design 4	3
EEB789	Project*	6
	One Technical Elective Unit	3

### General Elective Units

ACB480	Personal and Corporate Finance
EEB600	Starting a Technology Based Business
HRB121	Management Techniques
ISB393	Computer Based Information Systems
SSB907	Psychology for Engineers
	General Elective Unit

### Technical Elective Units

EEB761	Statistical Communications
EEB841	Mining Electrotechnology
EEB922	Computer Controlled Systems
EEB951	High Voltage Equipment
EEB954	Electrical Energy Utilisation
EEB955	Power Electronics Applications
EEB961	Communications Techniques
EEB962	Microwave Systems Engineering
EEB972	Integrated Electronic Techniques
MAB895	Introduction to Cryptology
MAB896	Error Control & Data Compression Techniques
MAB920	Coding & Encryption Techniques
MAB982	Advanced Topics in Cryptology

or any alternative core unit not previously completed, or advanced units from Computing Science.

## BACHELOR OF ENGINEERING (CIVIL)

Semester 1		Hrs/Wk
CEB201	Steel Structures 1	3
CEB241	Soil Mechanics 2	3
CEB281	Strength of Materials	2
CEB304	Civil Engineering Design 1	4
CEB354	Structural Engineering 3	3
CEB492	Engineering Investigation & Reporting 2	1
MAB493	Engineering Maths 2	3
MAB893	Engineering Maths 3	3
<b>Semester 2</b>		
CEB202	Concrete Structures 1	3
CEB304	Civil Engineering Design 1	4
CEB313	Traffic Engineering	3
CEB355	Structural Engineering 3	3
CEB360	Hydraulic Engineering 1	3
CEB422	Civil Systems 2*	2
MAB493	Engineering Maths 2	3

### Industrial Experience 2

<b>Semester 3</b>		
CEB306	Concrete Structures 2	3
CEB405	Civil Engineering Design 2	3
CEB460	Hydraulic Engineering 2	3
CEB470	Public Health Engineering 2	3
CEB491	Project (Civil)	3
	Two Elective Units	6

\* Part-time timetable.

**Semester 4**

CEB341	Geotechnical Engineering 1	3
CEB401	Design Project	3
CEB405	Civil Engineering Design 2	3
CEB406	Structural Applications*	3
CEB491	Project (Civil)	3
	Two Elective Units	6

**Industrial Experience 3****BACHELOR OF ENGINEERING (MECHANICAL)****Course Duration:** 2 years full-time**Full-Time Course Structure****Credit  
Points****Contact  
Hrs/Wk****Year 1, Semester 1 (February)**

MEB339	Project 1	8	4
MEB381	Design 2	6	3
MEB510	Noise and Vibrations	7	3
MEB511	Stress Analysis	7	3
MEB550	Heat Transfer	6	3
MEB773	Design for Manufacturing 1	7	3
	One Group B Elective Unit	7	3

**Year 1, Semester 2 (July)**

MEB463	Tribology	6	3
MEB483	Design 3	7	3
MEB610	Mechanics 2	6	3
MEB640	Automation 1	7	3
MEB650	Thermodynamics 3	6	3
MEB670	Industrial Engineering 1	6	3
	One Group C Elective Unit	7	3

**Year 2, Semester 1**

FNB116	Financial Management for Engineers	8	2
MEB464	Fluids 3	7	3
MEB489	Mechanical Design Project	7	3
MEN710	Automation 2	6	3
MEB771	Industrial Engineering 2	6	3
MEB911	Finite Element Analysis	7	3
	One Group D Elective Unit	7	3

**Year 2, Semester 2**

HRB111	Industrial Management	8	2
MEB409	Project 2	14	6
MEB489	Mechanical Design Project	7	3
MEB772	Engineering Project Appraisal	6	3
MEB981	Design of Materials Handling Systems	6	3
	One Group E Elective Unit	7	3

**Industrial Experience Units**

MEB300	Industrial Experience 2	5 weeks
MEB402	Industrial Experience 3	5 weeks

**Note:** Advanced standing programs for mechanical and civil engineers apply to diplomates with a grade point average equivalent greater than 5. Other diplomates may only be admitted directly into Year 2 of the Bachelor of Engineering (Mechanical) course. Diplomates admitted to the advanced standing program will not normally be granted any additional exemptions from units.

\* Part-time timetable.

## ☐ Faculty of Business

### **BACHELOR OF BUSINESS**

#### **Diploma in Business Studies from Ngee Ann Polytechnic**

Students who have completed a Diploma in Business Studies at Ngee Ann Polytechnic with credit level passes and have gained entry into the Bachelor of Business course will be granted the following exemptions:

MAJOR	NGEE ANN UNIT	QUT UNIT
Economics	Business Computing 1 Business Organisation Accounting Statistics Economics 1 Economics 2  Average of credit pass over remainder of course	ISB892 Business Computing BSB102 Management & Organisation AYB110 Accounting EPB110 Business Statistics EPB140 Macroeconomics EPB150 Microeconomics  Four unspecified Elective Units
International Business	Business Computing 2 Business Organisation Accounting 2 Business Law Sales & Promotion  Average of credit passes in the following four units: Personnel & Industrial Relations Operations Management Cost & Management Accounting Elective Unit	ISB892 Business Computing BSB102 Management & Organisation AYB110 Accounting ALB110 Business Law MKB140 Principles of Marketing  Four unspecified Elective Units
Marketing	BLOCK EXEMPTION	COB160 Professional Communication EPB116 Economic Principles ISB892 Business Computing MKB140 Principles of Marketing AYB100 Accounting for Managers/ AYB110 Accounting BSB102 Management & Organisation/ EPB124 Government EPB109 Business Methodology ALB110 Business Law HRB129 Operations & Production Management FNB107 Corporate Finance  Seven unspecified Elective Units

MAJOR	NGEE ANN UNIT	QUT UNIT
Management	<p>Business Organisation Economics 2 Accounting 2 Business Computing 2 Personnel &amp; Industrial Relations Operations Management</p> <p>Average of credit passes in the following seven units: Statistics Business Finance Business Law Principles &amp; Practice of Marketing Sales &amp; Promotion Cost &amp; Management Accounting Elective Unit</p>	<p>BSB102 Management &amp; Organisation EPB116 Economic Principles AYB100 Accounting for Managers ISB892 Business Computing HRB131 Personnel Management &amp; Industrial Relations HRB129 Operations &amp; Production Management</p> <p>Seven unspecified Elective Units</p>
Public Administration	<p>Business Organisations Business Computing 2 Accounting 2 Operations Management</p> <p>Average of credit passes over remainder of course</p>	<p>BSB102 Management &amp; Organisation ISB892 Business Computing AYB110 Accounting EPB109 Business Methodology</p> <p>Four unspecified Elective Units</p>
Industrial Relations	<p>Human Resource Management Economics 2 Business Computing 2 Personnel &amp; Industrial Relations</p> <p>Average of credit passes in following eight units: Accounting Business Finance Business Law Statistics Principles &amp; Practice of Marketing Sales &amp; Promotion Operations Management Cost &amp; Management Accounting</p>	<p>BSB102 Management &amp; Organisation EPB116 Economic Principles FNB102 Business Computing HRB131 Personnel Management &amp; Industrial Relations</p> <p>Eight unspecified Elective Units</p>

MAJOR	NGEE ANN UNIT	QUT UNIT
Human Resource Management	<p>Human Resource Management Economics 2 Accounting 2 Business Computing 2 Operations Management Personnel &amp; Industrial Relations</p> <p>Average of credit passes in the following five units: Business Finance Sales &amp; Promotion Operations Management Cost &amp; Management Accounting Elective Unit</p>	<p>BSB102 Management &amp; Organisation EPB116 Economic Principles AYB100 Accounting for Managers ISB892 Business Computing EPB109 Business Methodology HRB131 Personnel Management &amp; Industrial Relations</p> <p>Five unspecified Elective Units</p>

## Diploma in Accountancy from Ngee Ann Polytechnic

Students who have applied for and gained entry into the Bachelor of Business course with credit level passes will be granted the following exemptions:

MAJOR	NGEE ANN UNIT	QUT UNIT
Organisational Studies	Economics 2 Business Organisations  Average of credit passes in five of the following subjects: Accounting Business Computing Business Finance Business Law Statistics Principles & Practice of Marketing Sales & Promotion Personnel & Industrial Relations Operations Management Cost & Management Accounting Elective Unit	EPB116 Economic Principles BSB102 Management & Organisation  Eight unspecified Elective Units
Accountancy	Financial Accounting 1 Business Information Technology 1 Business Communication Economics Business Law Business Statistics Business Finance Cost Accounting Financial Accounting 2 Auditing Average of credit passes in final year units	AYB110 Accounting ISB892 Business Computing COB160 Professional Communication EPB150 Microeconomics ALB110 Business Law EPB110 Business Statistics FNB111 Finance 1 FNB123 Managerial Accounting 1 AYB111 Financial Accounting AYB210 Auditing Up to two unspecified Elective Units
International Business	Business Information Technology 2 Business Management Financial Accounting 2 Business Law Business Finance  Average of credit passes in the following four units: Auditing Company Law Singapore Taxation Law Elective Unit	ISB892 Business Computing BSB102 Management & Organisation AYB110 Accounting ALB110 Business Law EPB132 International Trade & Finance  Four unspecified Elective Units

**Note:** Students who have not obtained credit passes may also apply for entry to the course, and if accepted may apply for exemptions and will be considered on a unit-by-unit basis.

### Diploma of Mass Communication from Ngee Ann Polytechnic

Students who have completed a Diploma of Mass Communication at Ngee Ann Polytechnic with credit level passes and have gained entry into the Bachelor of Business course will be granted the following exemptions:

MAJOR	NGEE ANN UNIT	QUT UNIT
Journalism	Information Technology Social Psychology  Communication Issues & Law Mass Media in Singapore <b>OR</b> Mass Media in Asia and the Pacific Specialist Option: News Report & Writing 2 News Report & Writing Radio & Television Production 1 & 2 News Reporting & Writing Professional Speaking  Communication (Human & Mass)  Radio & Television Production 1 & 2 Professional Writing  Remaining Units in Diploma	ISB892 Business Computing COB106 Group Communication: Theory & Practice MJB139 Journalistic Ethics & Issues MJB104 Media Industries & Issues   MJB103 News Production  MJB120 Newswriting MJB132 Radio/Television Journalism 1 MJB121 Report Principles COB134 Speech Communication Theory & Practice COB113 Theoretical Perspective on Communication MJB126 Video Production COB138 Written Communication: Theory & Practice  Four unspecified Elective Units

**Note:** Given the above exemptions students will have 96 credit points (eight units) to complete to be eligible for graduation in the Bachelor of Business (Journalism) primary major. Two of the eight units are EPB124 Government and COB144 Literature and Communication. Students should undertake an elective unit in place of each of these units.



MAJOR	NGEE ANN UNIT	QUT UNIT
Public Relations	Information Technology Social Psychology Communication (Human & Mass) plus Mass Media in Singapore plus Mass Media in Asia & the Pacific News Reporting & Writing Special Option: Advanced Public Relations Public Relations Marketing  Statistics & Research Methods Professional Speaking  Radio & Television Production 1 Professional Writing  Remaining Units in Diploma	ISB892 Business Computing MKB142 Consumer Behaviour COB106 Group Communication: Theory & Practice <b>OR</b> MJB104 Media Industries & Issues  MJB120 Newswriting MKB117 Public Relations Campaigns  MKB124 Public Relations Principles MKB140 Principles of Marketing MKB129 Publicity & Promotion – Print MKB112 Research Methods  COB134 Speech Communication: Theory & Practice MJB126 Video Production  COB138 Written Communication: Theory & Practice  Four unspecified Elective Units
Advertising	Copywriting & Graphics Communication Issues & Law Information Technology Social Psychology Communication (Human & Mass) Advertising plus Advanced Advertising Marketing Statistics & Research Methods Professional Speaking  Exempt  Remaining Units in Diploma	MKB118 Advertising Copywriting MKB122 Advertising Regulations & Ethics ISB892 Business Computing MKB142 Consumer Behaviour COB106 Group Communication: Theory & Practice MKB116 Principles of Advertising  MKB140 Principles of Marketing MKB112 Research Methods  COB134 Speech Communication: Theory & Practice EPB124 Government  Five unspecified Elective Units

MAJOR	NGEE ANN UNIT	QUT UNIT
Film & Television Production	Information Technology Radio & Television Production 2 plus Copywriting & Graphics Social Psychology  Mass Media in Singapore <b>OR</b> Mass Media in Asia & the Pacific News Reporting & Writing Professional Speaking  Radio & Television Production 2 <b>OR</b> Advanced Television Production Communication (Human & Mass) Radio & Television Production 1 Professional Writing  Exempt Exempt  Remaining Units in Diploma	ISB892 Business Computing MJB100 Creative Sound & Image  COB106 Group Communication: Theory & Practice MJB104 Media Industries & Issues  MJB120 Newswriting COB134 Speech Communication: Theory & Practice MJB131 Television Studio/Post- Production  COB113 Theoretical Perspectives on Communication MJB126 Video Production  COB138 Written Communication: Theory & Practice EPB116 Economic Principles BSB102 Management & Organisations  Four unspecified Elective Units

### **Diploma in Accountancy from Singapore Polytechnic**

Students who have completed a Diploma in Accountancy at the Singapore Polytechnic with grades of 'pass' or above and who have gained entry into the Bachelor of Business degree course, will be granted the following exemptions:

MAJOR	QUT UNIT
Accountancy	AYB110 Accounting BSB102 Management & Organisation COB160 Professional Communication EPB110 Business Statistics EPB140 Macroeconomics EPB150 Microeconomics ISB892 Business Computing MAB173 Quantitative Methods  Four unspecified Elective Units

### **Diploma in Banking and Finance from Singapore Polytechnic**

Students who have completed a Diploma in Banking and Finance at the Singapore Polytechnic with grades of 'pass' or above and who have gained entry into the Bachelor of Business degree course will be granted the following exemptions:

MAJOR	QUT UNIT
Banking & Finance	AYB110 Accounting BSB102 Management & Organisation COB160 Professional Communication EPB110 Business Statistics EPB140 Macroeconomics EPB150 Microeconomics ISB892 Business Computing MAB173 Quantitative Methods  Four unspecified Elective Units

## Diploma in Business Administration from Singapore Polytechnic

Students who have completed a Diploma in Business Administration at Singapore Polytechnic with grades of 'credit' or above and who have gained entry into the Bachelor or Business course will be granted the following exemptions based on Singapore Polytechnic subjects as specified:

MAJOR	SINGAPORE POLYTECHNIC UNIT	QUT UNIT
Economics	BA0046 Principles of Management BA0045 Macroeconomics MS1501 Computer Application in Business 1 BA0056 Quantitative Analysis 1} BA0057 Quantitative Analysis 2}  BA0042 Principles of Accounting  BA0048 Introduction to Business Stats} BA0049 Statistical Application for Business}  BA2013 Macroeconomics Theory 1 BA0044 Microeconomics  Credit grades in the remainder of the course	BSB102 Management & Organisation EPB140 Macroeconomics ISB892 Business Computing  MAB173 Quantitative Methods   AYB110 Accounting  EPB110 Business Statistics   EPB142 Macroeconomics Theory EPB150 Microeconomics  Four Unspecified Elective Units
International Business	BA0046 Principles of Management BA0045 Macroeconomics MS1501 Computer Application in Business 1 LC0024 English/French/German/Japanese 1 BA4065 Business Accounting 1 BA4023 Microeconomics  BA4024 Introduction to Statistics}  BA4034 Statistical Applications for Business}  LC0025 English/French/German/Japanese 2 BA4038 Business Law 1 BA4036 Introduction to Marketing LC0025 English/French/German/Japanese 3  BA4061 Introduction Trade Documentation} BA4063 Introduction Trade Finance}  Average of pass level in each selected unit for credit as an elective unit	BSB102 Management & Organisation EPB140 Macroeconomics ISB892 Business Computing  Foreign Language 1  AYB110 Accounting EPB150 Microeconomics   EPB163 Research & Survey Methods   Foreign Language 2  ALB110 Business Law MKB140 Principles of Marketing Foreign Language 3  EPB132 Introduction Trade & Finance  Four unspecified Elective Units

MAJOR	SINGAPORE POLYTECHNIC UNIT	QUT UNIT
Public Administration	BA0044 Microeconomics BA0042 Principles of Accounting 1 BA0045 Macroeconomics BA0046 Principles of Management MS1501 Computer Application in Business 1 BA0048 Introduction to Business Statistics  Average of credit grades throughout the course	EPB150 Microeconomics AYB110 Accounting EPB140 Macroeconomics BSB102 Management & Organisation ISB892 Business Computing  EPB109 Business Methodology  Four unspecified Elective Units
Marketing*	MS1501 Computer Applications in Business BA0045 Macroeconomics BA0050 Introduction to Marketing BA0042 Principles of Accounting 1 BA0048 Introduction to Business Statistics } BA0049 Statistical Applications for Business } BA0046 Principles of Management BA0058 Business Law 1  Average of credit grades in the remainder of the course	ISB892 Business Computing  EPB116 Economic Principles MKB140 Principles of Marketing AYB110 Accounting  EPB109 Business Methodology  BSB102 Management & Organisation ALB110 Business Law  Five unspecified Elective Units
Management*	BA0046 Principles of Management BA0045 Macroeconomics BA0042 Principles of Accounting 1 MS1501 Computer Applications in Business BA0054 Human Resource Management } BA0055 Employee & Industrial Relations }  Average of credit grades in the remainder of the course	BSB102 Management & Organisation EPB116 Economic Principles AYB110 Accounting ISB892 Business Computing  HRB131 Personnel Management & Industrial Relations  Eight unspecified Elective Units
Industrial Relations*	BA0046 Principles of Management BA0045 Macroeconomics MS1501 Computer Applications in Business BA0054 Human Resource Management } BA0055 Employee & Industrial Relations }  Average of credit grades in the remainder of the course	BSB102 Management & Organisation EPB116 Economic Principles ISB892 Business Computing  HRB131 Personnel Management & Industrial Relations  Eight unspecified Elective Units

\* To be confirmed.

MAJOR	SINGAPORE POLYTECHNIC UNIT	QUT UNIT
Human Resource Management*	BA0046 Principles of Management BA0045 Macroeconomics BA0042 Principles of Accounting 1 MS1501 Computer Applications in Business BA0048 Introduction to Business Statistics) BA0049 Statistical Applications for Business) BA0054 Human Resource Management) BA0055 Employee & Industrial Relations}  Average of credit grades in the remainder of the course	BS102 Management & Organisation EPB116 Economic Principles AYB110 Accounting ISB892 Business Computing  EPB109 Business Methodology  HRB131 Personnel Management & Industrial Relations  Five unspecified Elective Units
Organisational Studies*	BA0045 Macroeconomics BA0046 Principles of Management  Average of credit grades in the remainder of the course	EPB116 Economic Principles BSB102 Management & Organisation  Eight unspecified Elective Units
Film & Television Production*	MS1501 Computer Applications in Business BA0046 Principles of Management BA0045 Macroeconomics  Average of credit grades in the remainder of the course	ISB892 Business Computing  BSB102 Management & Organisation EPB116 Economic Principles  Three unspecified Elective Units
Journalism*	MS1501 Computer Applications in Business BA0045 Macroeconomics  Average of credit grades in the remainder of the course	ISB892 Business Computing  EPB116 Economic Principles  Four unspecified Elective Units
Organisational Commn*	MS1501 Computer Applications in Business BA0046 Principles of Management  Average of credit grades in the remainder of the course	ISB892 Business Computing  BSB102 Management & Organisation  Eight unspecified Elective Units

\* To be confirmed.

MAJOR	SINGAPORE POLYTECHNIC UNIT	QUT UNIT
Advertising*	MS1501 Computer Applications in Business 1 BA0045 Macroeconomics  BA0098 Advertising Communication} BA0101 Advertising & PR Campaigns} BA0102 Advertising Media & Planning BA0050 Introduction to Marketing BA0076 Consumer Behaviour  Average of credit passes in the remainder of the course	ISB892 Business Computing  EPB116 Economic Principles  MKB116 Principles of Advertising  MKB125 Media Planning  MKB140 Principles of Marketing MKB142 Consumer Behaviour  Two unspecified Elective Units
Public Relations*	MS1501 Computer Applications in Business 1 BA0045 Macroeconomics  BA0050 Introduction to Marketing BA0076 Consumer Behaviour  Average of credit passes in the remainder of the course	ISB892 Business Computing  EPB116 Economic Principles  MKB140 Principles of Marketing MKB142 Consumer Behaviour  Two unspecified Elective Units

### **Commercial Certificate from Assumption Commercial College**

Students who have completed the three-year Commercial Certificate at Assumption Commercial College and who have obtained a GPA of greater than 3.2 out of 4 will be given preferential entry to the QUT Bachelor of Business three-year course. The normal English test requirement by QUT applies.

Students who have completed the three-year Commercial Certificate and who have obtained a GPA of between 2 and 3.2 will be required to undertake six months of study under the QUT Business Foundation Program. Entry to the QUT Bachelor of Business three-year course will be via the Business Foundation rules: viz if the student obtains a credit in four units including English, that student is eligible to apply for a position in the course.

### **Associate Diploma from Assumption Commercial College**

Students who have completed the two-year Associate Diploma will be the subject of a further submission. The first students to complete this course in areas relevant to the QUT Bachelor of Business course are expected to complete their studies in 1993.

\* To be confirmed.

### **Certificate in Accounting or Business Computing from Tunku Abdul Rahman College**

Students who have completed a two-year Certificate in Accounting or Business Computing with a 'B' grade point average at Tunku Abdul Rahman College will be given preferential entry to the QUT Bachelor of Business course.

Students with less than a 'B' grade point average will need to compete with all other overseas students for available places.

### **Diploma in Commerce from Tunku Abdul Rahman College**

Students who have passed the first year in the Diploma in Commerce at Tunku Abdul Rahman College will be granted one full year of credit in the Bachelor of Business course provided they enrol in a Major relevant to their studies in the Diploma in Commerce.

### **Diploma in Commerce (Financial Accounting) from Tunku Abdul Rahman College**

MAJOR	QUT UNIT
Accountancy	ALB110 Business Law AYB110 Accounting COB160 Professional Communication EPB110 Business Statistics EPB150 Microeconomics EPB140 Macroeconomics FNB123 Managerial Accounting 1  One unspecified Elective Unit

### **Diploma in Commerce (Business Management)**

MAJOR	QUT UNIT
Accountancy	ALB110 Business Law AYB110 Accounting COB160 Professional Communication EPB110 Business Statistics EPB140 Macroeconomics EPB150 Microeconomics  Two unspecified Elective Units
Management	BSB102 Management & Organisation EPB116 Economic Principles HRB130 Organisational Behaviour ISB892 Business Computing  Four unspecified Elective Units

Students seeking credit in other majors in the Bachelor of Business course will have their applications considered on a case-by-case basis.



## Accounting from the Chartered Association of Certified Accountants, England

### APPROVED

#### Home Unit

Bookkeeping & Accounts 1  
Bookkeeping & Accounts 2  
Bookkeeping & Accounts 2  
Accounting 4  
Economics  
Business Statistics  
Management Mathematics  
Business Administration  
Business Management  
Accounting 4  
Accounting 6 - Financial Management  
Costing  
Management Accounting  
Mercantile Law  
Company Law

#### NOT APPROVED

Auditing  
Auditing & Investigations  
Economics

#### QUT Unit

AYB110 Accounting  
AYB111 Financial Accounting  
EPB140 Macroeconomics  
EPB110 Business Statistics  
BSB102 Management & Organisation  
FNB111 Finance 1  
FNB123 Managerial Accounting 1  
ALB110 Business Law  
AYB210 Auditing  
EPB150 Microeconomics

## □ Faculty of Information Technology

The following are course structures for the two-year advanced standing programs offered by the Faculty of Information Technology. Students are required to complete one year (96 credit points) to complete the degree. It is intended to give students a general idea of the material covered and the elective units available. Core and elective unit offerings may change.

### BACHELOR OF APPLIED SCIENCE (COMPUTING) – SEMESTER 1 OR 2 ENTRY

#### Program for graduates of Ngee Ann Polytechnic and JSIST Diploma in Programming and Systems Analysis

##### Semester 1 1993

Foundation of Computing\*  
Data Structures and Algorithms  
Laboratory+  
Data Communications # or Advanced Computer Architectures\*\*  
Elective Unit

##### Semester 2 1993

Languages and Language Processing  
Data Security  
Elective Unit  
Programming Language Paradigms

\* For students who have not done a Quantitative Methods subject (as in old Ngee Ann program), or did not pass A level Mathematics which included Probability and Statistics.

+ For students to whom footnote \* does not apply.

# For non-Computer Architecture students of the Ngee Ann or JSIST course.

\*\* For Computer Architecture students of the Ngee Ann or JSIST course.

Plus two elective units to be chosen from:

Statistical Methods  
Special Studies  
Graphics  
Expert Systems  
Systems Programming  
Advanced Computer Architecture  
Decision Support Systems  
Information Resources  
Information Systems Management  
Database 2  
Concurrent Systems (only for non-Computer Architecture Students)

## **BACHELOR OF BUSINESS (INFORMATION MANAGEMENT) – SEMESTER 1 1993 ENTRY ONLY**

**Program for graduates of Ngee Ann Polytechnic**

### **Semester 1 1993**

Information Management 1  
OR  
Management & Organisation  
Information Issues and Values  
Information Management 2 (Analysis & Use)  
Information Resources  
Decision Support Systems

### **Semester 2 1993**

Laboratory 4 (Information Support Methods)  
OR  
Business Elective Unit  
Information Management 3 (Strategy & Planning)  
Statistical Methods  
Applied Cognitive Psychology

Where choices are shown, the choice will be made after consultation with the course coordinator, and will depend upon previous experience and study.

Due to scheduling of units, students who wish to enter the course during the second semester are not able to complete the course within two semesters.

## **BACHELOR OF BUSINESS (COMPUTING) – SEMESTER 1 OR 2 1993 ENTRY**

**Program for graduates of Ngee Ann Polytechnic and JSIST (Higher Diploma in  
Information Systems)**

Entry with advanced standing of two years (192 credit points) in the Bachelor of Business (Computing) course is awarded to HND graduates in Computing Studies from Ngee Ann Polytechnic and JSIST. Students will complete one year (96 credit points) of units selected from the following list with the course coordinator's advice:

Database 2  
Decision Support Systems  
Knowledge-Based Systems  
Information Systems Management  
Statistical methods  
Unix and C  
Data Security  
Special Topic 1  
Special Topic 2  
Information Resources  
Plus other elective units as available.

## **BACHELOR OF APPLIED SCIENCE (COMPUTING)**

### **Program for graduates of Tunku Abdul Rahman College**

#### **1. Diploma in Science – Computer Science/Physics Computer Science/Mathematics**

Graduates in these courses will be awarded credit for 50% of the Bachelor Applied Science (Computing) course (144 credit points), and may enter in either first or second semester. TARC students will be required to complete the following QUT units to attain the QUT degree:

Information Management 1  
Data Structures and Algorithms  
Computer Architecture  
Programming Language Paradigms  
Languages and Language Processing  
Concurrent Systems  
Software Engineering  
Advanced Computer Architecture  
Laboratory 4 (Software Development)  
Elective Unit  
Elective Unit  
Elective Unit  
Totals 144 credit points

#### **ELECTIVE UNITS**

Special Studies  
Graphics  
Data Security  
Artificial Intelligence  
Expert Systems  
Systems Programming  
Advanced Computing Architecture  
Database Design  
Database Management  
Information Management 2  
BSB102      Management and Organisation  
MKB140      Principles of Marketing

#### **2. Diploma in Science – Computer Science/Microelectronics**

Graduates from this course will be awarded credit for a minimum of 120 credit points from the Bachelor of Applied Science – Computing, with 168 credit points required to complete the degree.

Students will be required to complete the same units as listed in 1 above plus:

Project Work	12 credit points
Data Communications	12 credit points

#### **3. Certificate in Computer Studies (First Semester Entry Only)**

Graduates from this Certificate course will be awarded one year of credit equivalent to a block exemption from the first year of Bachelor of Applied Science – Computing or Bachelor of Business – Computing degree, or Bachelor of Business (Information Management).

Students will be required to complete the second and third years of the degree and complete units to a total of 192 credit points.

#### **4. Certificate in Computing with Accounting (Mid-Year Entry Only)**

Graduates from this Certificate course will be awarded 48 credit points, equivalent to one semester of the Bachelor of Applied Science (Computing) course.

#### **BACHELOR OF BUSINESS (COMPUTING)**

Entry with advanced standing in 144 credit point is awarded to graduates of the Diploma in Science (Computer Science) from Kolej Tunku Abdul Rahman. Students will be required to complete the following units (144 credit points):

Information Management 1  
Database 2  
Laboratory 3  
Decision Support Systems  
Knowledge-Based Systems  
Information Systems Management  
Data Security  
Applications Development

Plus four elective units (48 credit points) as advised by the course coordinator.

#### **BACHELOR OF BUSINESS (INFORMATION MANAGEMENT)**

Students who have successfully completed the TARC Diploma in Science (Computer Science) are entitled to advanced standing in the Bachelor of Business (Information Management) course to the extent of 144 credit points.

They may complete the Information Management course in three semesters as follows:

##### **Semester 1 1993**

ITB310 Information Management 1  
ITB331 Information Management 2 (Analysis & Use)  
ITB322 Information Resources  
ITB320 Laboratory 3 (Database Applications)

##### **Semester 2 1993**

ITB323 Laboratory 4 (Information Support Methods)  
ITB341 Information Management 3 (Strategy & Planning)  
MAB172 Statistical Methods  
SSB937 Applied Cognitive Psychology

##### **Semester 3 1994**

ITB241 Decision Support Systems  
ITB330 Information Issues and Values  
Elective Unit  
Elective Unit

Elective units to be chosen are subject to prerequisite requirements from units offered in Information Technology courses or Business units, such as:

AYB100 Accounting for Managers  
BSB102 Management and Organisation  
COB134 Speech Communication: Theory & Practice  
COB144 Literature and Communication  
EPB124 Government  
EPB150 Microeconomics  
HRB126 Management Processes  
HRB131 Personnel Management and Industrial Relations  
MKB140 Principles of Marketing  
MJB126 Video Production

Mid-year entry is also possible, but unit sequencing must be confirmed with the course coordinator, and may require more than three semesters depending upon unit selection and availability.

## APPENDIX 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
Bachelor of Social Science (Human Services)	3
Bachelor of Social Science (Psychology)	3
Associate Diploma in Arts (Dance)	1
Master of Arts (Humanities)	0
Master of Arts (Social Science)	0
Bachelor of Arts	3

### Faculty of Built Environment and Engineering

All courses

12% of the total course credit points

### Faculty of Business

MBA	2
Master of Business (Management)	1 (elective unit only)
Master of Business (Communication)	0
Master of Business (Commerce)	0
Graduate Diploma of Business Administration	1
Graduate Diploma of Communication	0
Graduate Diploma of Advanced Accounting	1
Graduate Diploma of Business (Industrial Relations)	1
Graduate Diploma of Quality	1
Bachelor of Business (Honours) – Accounting	0
Bachelor of Business (Honours) – Communication	0
Bachelor of Business (Honours) – Management	1 (elective unit only)
Bachelor of Business	3

### Faculty of Education

Master of Education	0
Master of Education (Research)	0
Graduate Diploma in Education (Curriculum)	1
Graduate Diploma in Education (Computer Education)	1
Graduate Diploma in Education (Early Childhood)	1
Graduate Diploma in Education (Early Childhood/Primary/Secondary)	1
Graduate Diploma in Education (Educational Management)	1
Graduate Diploma in Education (Resource Teaching)	0
Graduate Diploma in Education (Teacher-Librarianship)	0
Graduate Certificate in Education (TESOL)	0
Graduate Certificate in Education	1
Bachelor of Teaching (Early Childhood, Primary)	3
Bachelor of Education (In-Service)	1
Bachelor of Education (Secondary)	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**

All courses

12.5% of the total course credit points

---

**Faculty of Law**

Associate Diploma in Business

(Court and Parliamentary Reporting)

2

All other courses

12.5% of the total course credit points

---

**Faculty of Science**

All courses

12.5% of the total course credit points

---

**Interfaculty Courses**

All courses

12.5% of the total course credit points

## APPENDIX 3: Exclusion - designated units

### Credit Points

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#### FACULTY OF ARTS

##### Bachelor of Arts (Dance)

AAB102	Contemporary Technique 1	16
AAB103	Classical Technique 1	16
AAB107	Contemporary Technique 2	16
AAB108	Classical Technique 2	16

##### Bachelor of Arts (Drama)

AAB241	Voice 1	8
AAB242	Voice 2	8
AAB247	Acting 3	12
AAB248	Acting 4	16

##### Bachelor of Arts (Music)

AAB501	Chief Practical Study 2	16
AAB502	Chief Practical Study 3	16
AAB561	Practical Studies A1	12
AAB562	Practical Studies A2	12
AAB563	Aural and Written Musicianship 1	12
AAB564	Aural and Written Musicianship 2	12

##### Bachelor of Arts (Visual Arts)

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

##### Bachelor of Social Science (Human Services)

SSB026	Fieldwork Practice 1
SSB036	Fieldwork Practice 2

##### Associate Diploma in Arts (Dance)

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
AAX117	Ballet Technique 1	8
AAX118	Ballet Technique 2	8
AAX119	Ballet Technique 3	8
AAX120	Ballet Technique 4	8
AAX121	Contemporary Technique 1	8
AAX122	Contemporary Technique 2	8
AAX123	Contemporary Technique 3	8
AAX124	Contemporary Technique 4	8

# 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 unit 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, brailier, 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 (eg. 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 (eg. 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.**

## 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 units and in the thesis where such is required. The standard should be at a higher level than would normally be expected from an excellent candidate. The medal should be testimony that the recipient not only shows exceptional academic promise at the time of the award, but also exhibits a distinguished record of achievement throughout the whole of the degree.

2. Eligibility to be considered for the award of a University Medal will be limited to:

- (i) graduates of honours degrees where the student's performance in the related bachelor degree is also taken into account;
- (ii) graduates of degrees with honours; or
- (iii) graduates of bachelor degrees of at least three years normal duration where no honours award is available.

In completing one of the above awards, graduates must have been enrolled at QUT for at least two years of full-time study or equivalent.

3. Power to recommend graduates for the award of University Medals resides with Faculty Academic Boards; in making such a recommendation Faculty Academic Boards are required also to submit:

- (i) the academic records of the students recommended;
- (ii) the academic records of the other students considered;
- (iii) a statement supporting the recommendation.

4. Academic Committee may make determinations from time to time concerning the number of medals which may be awarded in an academic year or the ratio of medals to the number of eligible graduates.

Currently there is an upper limit on the proportion of eligible graduates who receive University medals in any year of one per 200 eligible graduands or part thereof per faculty. Any number above this requires specific approval by Academic Committee.

# 3

## Academic Programs

# CONTENTS

University-Wide and Interfaculty Courses .....	149
Faculty of Arts .....	185
Faculty of Built Environment and Engineering .....	209
Faculty of Business .....	299
Faculty of Education .....	385
Faculty of Health .....	461
Faculty of Information Technology .....	497
Faculty of Law .....	533
Faculty of Science .....	559
Index of Courses .....	601

# UNIVERSITY-WIDE AND INTERFACULTY COURSES

# Courses

■ Doctor of Philosophy (IF49) .....	151
■ Master of Applied Science (Research) .....	158
■ Graduate Diploma in Quality (IF69).....	163
■ Honours Degrees .....	164
■ Bachelor of Applied Science/Bachelor of Laws (IF34) .....	166
■ Bachelor of Arts/Bachelor of Laws (IF36).....	167
■ Bachelor of Engineering (Electronics)/Bachelor of Information Technology (IF23) .....	172
■ Bachelor of Business (Accountancy)/Bachelor of Laws (IF31) .....	174
■ Bachelor of Information Technology/Bachelor of Laws (IF33).....	176
■ Bachelor of Engineering (Manufacturing Systems)/ Bachelor of Business (Marketing) (IF53) .....	178
■ Bachelor of Applied Science (Surveying)/Bachelor of Information Technology (IF52) .....	180
■ New Opportunities in Tertiary Education (NOTE) Program (BN10).....	182

# 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 their 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 their 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 they are 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 Health (HL84)
- ☐ the Faculty of Information Technology (IT84), see description in the Faculty entry.

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 and information technology by means of a program which involves either an original contribution to knowledge or an original application of existing knowledge
- ☐ to provide further education in research methods
- ☐ to enable graduates employed in industry to undertake further education by research and thesis
- ☐ to enable industrial organisations and other external agencies to sponsor a student research program under the control and supervision of the faculty
- ☐ to further relationships between the University and industry or other external agencies engaged in applied science, to their mutual advantage.

### 1. General Conditions

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

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

1.3 Research Management Committee has delegated responsibility for day-to-day administration of research 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 they have 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 their 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 they are 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 their 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 Information 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>				
IFP222	Project	8	2	1-14
MAP221	Quality Problem Solving Techniques	8	2	1-14
MEP473	Quality Systems & Assessment	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 units directly relevant to, or specified as prerequisite for, the proposed honours program.

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

### 3. Duration

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

### 4. Program requirements

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

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

### 5. Unsatisfactory progress

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

5.2 Unsatisfactory progress consists of:

- ☐ receiving a grade of less than 4 (or 'Satisfactory', where applicable) in one unit of the coursework component;
- ☐ failure to make sufficient progress with the project or dissertation component, in the opinion of the dean.

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

### 6. Assessment

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

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

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

### 7. Determination of level of honours awards

7.1 The faculty academic board, on advice from the school, will determine the level of honours to be awarded.

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

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

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

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

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

## ■ Bachelor of Applied Science/Bachelor of Laws (IF34)\*

**Location:** Gardens Point campus

**Course Duration:** 5 years full-time

**Total Credit Points:** 558 - 570

**Standard Credit Points/Full-Time Semester:** 55.8 - 57.0

**Course Coordinators:** Dr Don Field, Professor Malcolm Cope

Full-Time Course Structure		Credit Points	Contact Hrs/Wk
<b>Year 1, Semester 1</b>			
	3 Science units from the SC30 First Schedules+	36	
LWB101/1	Introduction to Law	12	3
LWB104/1	Legal Research & Writing 1	4	1
<b>Year 1, Semester 2</b>			
	3 Science units from the SC30 First Schedules+	36	
LWB101/2	Introduction to Law	12	3
LWB104/2	Legal Research & Writing 1	4	1
<b>Year 2, Semester 1</b>			
	3 Science units from the SC30 Second Schedules+	36	
LWB102/1	Law of Contract	12	3
<b>Year 2, Semester 2</b>			
	3 Science units from the SC30 Second Schedules+	36	
LWB102/2	Law of Contract	12	3
<b>Year 3, Semester 1</b>			
	2 Science units from the SC30 Third Schedules+	24	
LWB103/1	Torts	12	3
LWB202/1	Criminal Law & Procedure	12	3
<b>Year 3, Semester 2</b>			
	2 Science units from the SC30 Third Schedules+	24	
LWB103/2	Torts	12	3
LWB202/2	Criminal Law & Procedure	12	3
<b>Year 4, Semester 1</b>			
LWB201/1	Land Law	12	3
LWB203/1	Constitutional Law	12	3
LWB301/1	Equity	12	3

\* Subject to approval.

+ Students will be required to attend an advisory session where in consultation with an academic advisor select their Science units.

LWB303/1	Commercial Law	12	3
LWB311/1	Administrative Law	12	3

#### **Year 4, Semester 2**

LWB201/2	Land Law	12	3
LWB203/2	Constitutional Law	12	3
LWB301/2	Equity	12	3
LWB303/2	Commercial Law	12	3
LWB311/2	Administrative Law	12	3

#### **Year 5, Semester 1**

LWB309	Succession	8	2
LWB401/1	Company Law & Partnership	12	3
LWB402	Evidence	12	3
LWB403/1	Taxation Law	12	3
LWB404/1	Civil Procedure	12	3
LWB414/1	Drafting & Legal Transactions	8	2
LWB415/1	Legal Research & Writing 2	4	1
	One Law Elective Unit	8-12	2-3

#### **Year 5, Semester 2**

LWB401/2	Company Law & Partnership	12	3
LWB403/2	Taxation Law	12	3
LWB404/2	Civil Procedure	12	3
LWB409	Professional Conduct (5 weeks)	2	2
LWB414/2	Drafting & Legal Transactions	8	2
LWB415/2	Legal Research & Writing 2	4	1
	Two Law Elective Units	16-24	4-6

#### **Elective Units**

The offering of elective units in any semester will depend on sufficient minimum enrolments in the unit and the availability of staff. The choice of all elective units is subject to the approval of the Dean of Faculty.

## **■ Bachelor of Arts/Bachelor of Laws (IF36)**

**Location:** Carseldine and Gardens Point campuses

**Course Duration:** 5 years full-time

**Total Credit Points:** 558 - 570

**Standard Credit Points/Full-Time Semester:** 55.8 - 57.0

**Course Coordinators:** Dr Wayne Hindsley, Professor Malcolm Cope

<b>Course Structure:</b>	<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
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#### **Year 1, Semester 1**

Students enrol in four of the following five core units:

HUB603	Texts & Interpretation (compulsory for all students)	12	3
plus three of the following:			
HUB600	Australian Society & Culture	12	3
HUB601	Human Identity & Change	12	3
HUB602	The Humanities Traditions	12	3

Languages other than English (specialising in one of French, German, Indonesian or Japanese).

HUB641	Introductory Indonesian 1	12	3
HUB660	Introductory Japanese 1	12	3
	OR (for students who have completed Year 12 Japanese or equivalent)		
HUB662	Japanese Language & Culture 1	12	3
HUB670	Introductory French 1	12	3
	OR (for students who have completed Year 12 French or equivalent)		
HUB672	French Language & Culture 1	12	3
HUB735	Introductory German 1	12	3
	OR (for students who have completed Year 12 German or equivalent)		
HUB737	German Language & Culture 1	12	3

### Year 1, Semester 2

Students enrol in four units, including at least two of the following entry level units to the various major study sequences offered by the School of Humanities.

#### Major Study Sequences

HUB610	Approaches to Asia/Pacific Studies	12	3
HUB680	Approaches to Australian Studies	12	3
HUB720	Approaches to European Studies	12	3

Students may enrol in up to two units offered by other schools/faculties.

### Year 2

Students must complete a minimum of 84 credit points of advanced level units in their chosen major study sequence. Up to two of these advanced levels units may be from approved offerings of other schools/faculties.

#### Details of Major Study Sequences

##### ASIA/PACIFIC STUDIES

Asia/Pacific Studies offer four options. Students studying one of the three language options must complete a 120 credit point extended major.

#### Option I – Asia/Pacific Political, Cultural and Development Studies (96 credit points)

Units offered by the School of Humanities

##### Introductory (Compulsory)

HUB610	Approaches to Asia/Pacific Studies	12	3
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##### Advanced (Elective Units)

HUB611	Indonesian Social Geography	12	3
HUB612	Modern Indonesian Studies	12	3
HUB613	Social Geography of Thailand	12	3
HUB614	Contemporary Thailand	12	3
HUB615	Modern China & Japan	12	3
HUB616	Modern India & South-East Asia	12	3
HUB617	Women, Aid & Development	12	3
HUB618	Asian Women: Tradition, Colonisation & Revolution	12	3
HUB619	Pacific Culture Contact	12	3
HUB620	The Pacific Since 1945	12	3
HUB621	North American Studies	12	3
HUB622	Latin American Studies	12	3
HUB623	Asia/Pacific Political Studies	12	3

#### Option 2 – Indonesian Language and Culture (120 credit points)

Units offered by the School of Humanities:

HUB610	Approaches to Asia/Pacific Studies	12	3
	AND EITHER		
HUB611	Indonesian Social Geography	12	3



	OR		
HUB612	Modern Indonesian Studies	12	3
	Sequence of six Indonesian language units	72	
	In-country summer school or equivalent	24	

### Option 3 – Japanese Language and Culture (120 credit points)

Units offered by the School of Humanities:

HUB610	Approaches to Asia/Pacific Studies	12	3
HUB615	Modern China & Japan	12	3
	Sequence of six Japanese language units	72	
	In-country summer school or equivalent	24	

### Option 4 – French Language and Culture (120 credit points)

Units offered by the School of Humanities:

HUB610	Approaches to Asia/Pacific Studies	12	3
	AND EITHER		
HUB619	Pacific Culture Contact	12	3
	OR		
HUB620	The Pacific Since 1945	12	3
	Sequence of six language units	72	
	In-country summer school or equivalent	24	

## AUSTRALIAN STUDIES

Australian Studies offers four minor studies sequences. A major studies sequence in Australian studies constitutes 96 credit points and must be taken from at least two of the minor studies sequences.

### Option 1 – Contemporary Australia

Units offered by the School of Humanities:

#### Introductory (Compulsory)

HUB680	Approaches to Australian Studies	12	3
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#### Advanced (Elective)

HUB682	Social Movements in Australia	12	3
HUB683	Australian Geographical Studies	12	3
HUB685	Resources, Planning & Development	12	3
HUB686	Introduction to Politics: An Australian Perspective	12	3
HUB687	Contemporary Moral Problems: An Australian Perspective	12	3

### Option 2 – Historical Australia

Units offered by the School of Humanities:

#### Introductory (Compulsory)

HUB680	Approaches to Australian Studies	12	3
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#### Advanced (Elective Unit)

HUB690	Themes in Australian History	12	3
HUB691	Women's Past - Women's History to Feminist Historiography	12	3
HUB692	Conspiracy & Dissent in Australian History	12	3
HUB693	Australian Race Relations	12	3

### Option 3 – Aboriginal and Torres Strait Islander Studies

Units offered by the Aboriginal and Torres Strait Islander Unit in conjunction with the School of Humanities:

**Introductory (Compulsory)**

HUB700	Aboriginal & Torres Strait Islander Culture Studies	12	3
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**Advanced (Elective Unit)**

HUB701	Aboriginal & Torres Strait Islander Literature	12	3
HUB702	The Australian Dreaming: The Indigenous Construction	12	3
HUB703	Politics & Political Culture in Indigenous Australia	12	3
HUB693	Australian Race Relations	12	3
HUB690	Themes in Australian History	12	3

**Option 4 – Australian Literary and Cultural Studies**

Units offered by the School of Humanities:

**Introductory (Compulsory)**

HUB680	Approaches to Australian Studies	12	3
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**Advanced (Elective Unit)**

HUB710	Australian Literary Studies	12	3
HUB701	Aboriginal & Torres Strait Islander Literature	12	3
HUB711	Australian Women's Writing	12	3
HUB712	Australian Children's & Adolescent Fiction	12	3

**EUROPEAN STUDIES**

European Studies offers three options. Students studying one of the language options must complete a 120 credit point extended major.

**Option 1 – European History, Literature and Culture (96 credit points)**

Units offered by the School of Humanities:

**Introductory (Compulsory)**

HUB720	Approaches to European Studies	12	3
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**Advanced (Elective Unit)**

HUB721	The Classical World (to 500 AD)	12	3
HUB722	Foundations of Modern Europe	12	3
HUB723	Europe in the Twentieth Century	12	3
HUB724	Nineteenth Century English Literature & Culture	12	3
HUB725	Twentieth Century English Literature & Culture	12	3
HUB726	European Literature & Social Change	12	3
HUB727	European Literature & Identity	12	3
HUB728	Popular Literature	12	3
HUB729	Shakespeare in the Modern World	12	3
HUB730	Women's Writing & Representation	12	3

**Option 2 – French Language and Culture (120 credit points)**

Units offered by the School of Humanities.

HUB720	Approaches to European Studies (Compulsory)	12	3
HUB723	Europe in the Twentieth Century	12	3
	A sequence of six French language units	72	
	In-country summer school or equivalent	24	

**Option 3 – German Language and Culture (120 credit points)**

Units offered by the School of Humanities.

HUB720	Approaches to European Studies (Compulsory)	12	3
HUB723	Europe in the Twentieth Century	12	3
	A sequence of six German language units	72	
	In-country summer school or equivalent	24	

**Year 3, Semester 1**

LWB101/1	Introduction to Law	12	3
LWB102/1	Law of Contract	12	3
LWB104/1	Legal Research & Writing	4	1
LWB103/1	Torts	12	3
LWB202/1	Criminal Law & Procedure	12	3

**Year 3, Semester 2**

LWB101/2	Introduction to Law	12	3
LWB102/2	Law of Contract	12	3
LWB104/2	Legal Research & Writing	4	1
LWB103/2	Torts	12	3
LWB202/2	Criminal Law & Procedure	12	3

**Year 4, Semester 1**

LWB201/1	Land Law	12	3
LWB203/1	Constitutional Law	12	3
LWB301/1	Equity	12	3
LWB303/1	Commercial Law	12	3
LWB311/1	Administrative Law	12	3

**Year 4, Semester 2**

LWB201/2	Land Law	12	3
LWB203/2	Constitutional Law	12	3
LWB301/2	Equity	12	3
LWB303/2	Commercial Law	12	3
LWB311/2	Administrative Law	12	3

**Year 5, Semester 1**

LWB309	Succession	8	2
LWB401/1	Company Law & Partnership	12	3
LWB402	Evidence	12	3
LWB403/1	Taxation Law	12	3
LWB404/1	Civil Procedure	12	3
LWB414/1	Drafting & Legal Transactions	8	2
LWB415/1	Legal Research & Writing 2	4	1
	One Law Elective Unit	8-12	2-3

**Year 5, Semester 2**

LWB401/2	Company Law & Partnership	12	3
LWB403/2	Taxation Law	12	3
LWB404/2	Civil Procedure	12	3
LWB409	Professional Conduct (5 weeks)	2	2
LWB414/2	Drafting & Legal Transactions	8	2
LWB415/2	Legal Research & Writing 2	4	1
	Two Law Elective Units	16-24	4-6

**Elective Units**

The offering of elective units in any semester depends on sufficient minimum enrolments in the unit and the availability of staff. The choice of all elective units is subject to the approval of the Dean of Faculty.

## ■ Bachelor of Engineering (Electronics)/Bachelor of Information Technology (IF23)\*

**Location:** Gardens Point campus

**Course Duration:** 5 years full-time

**Total Credit Points:** 497

**Standard Credit Points/Full-Time Semester:** 46.7 (average)

### **Course Coordinators:**

Information Technology – Mr Mike Roggenkamp

Engineering – Mr John Edwards

### **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.

### **Full-Time Course Structure**

		<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
<b>Year 1, Semester 1</b>			
EEB101	Circuits & Measurements	7	3
EEB202	Electromagnetics	6	3
MAB187	Engineering Mathematics 1A	6	3
PHB132	Engineering Physics 1A	6	3
ITB101	Laboratory 1 (Computing Environments)	12	3
ITB210	Formal Representation	12	3
ITB410	Software Development 1	12	3
<b>Year 1, Semester 2</b>			
COB163	Professional Writing	6	1.5
EEB203	Circuit Analysis	5	3
EEB272	Digital Principles	3	1.5
MAB188	Engineering Mathematics 1B	6	3
PHB232	Engineering Physics 2A	6	3
ITB102	Laboratory 2 (Computer Applications)	12	3
ITB411	Software Development 2	12	3
ITB412	Technology of Information Systems	12	3
<b>Year 2, Semester 1</b>			
EEB302	Electrotechnology	6	3
EEB303	Network Theory 1	7	3
EEB371	Electronic Devices	5	3
EEB372	Sequential Logic	7	3
EEB561	Analogue Communications	6	3
ITB421	Data Structures & Algorithms	12	3
MAB493/1	Engineering Mathematics 2+	6	3
<b>Year 2, Semester 2</b>			
EEB361	Signals & Systems	7	3
EEB401	Network Theory 2	6	3
EEB471	Electronics	7	3

\* See Special Notes relating to Bachelor of Engineering courses.

+ Unit extends over two semesters.

EEB474	Microprocessors	6	3
ITB422	Laboratory 3 (ADTs in a UNIX Environment)	12	3
ITB431	Programming Language Paradigms	12	3
MAB493/2	Engineering Mathematics 2*	6	3

### Year 3, Semester 1

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
ITB420	Computer Architecture	12	3
MAB893	Engineering Mathematics 3	6	3

### Year 3, Semester 2

EEB602	Signal Processing	6	3
EEB620	Control Systems Analysis	6	3
EEB661	Information Theory & Noise	6	3
ITB430	Concurrent Systems	12	3
ITB440	Languages & Language Processing	12	3
MAB894	Engineering Mathematics 4	6	3

### Year 4, Semester 1

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
ITB424	Software Engineering	12	3

### Year 4, Semester 2

EEB430	Engineering Fields	6	3
EEB601	Realtime Operating Systems	6	3
EEB621	Advanced Control Systems	6	3
EEB820	Engineering Management	8	3
EEB887	Design 3	6	3
ITB450	Advanced Computer Architectures	12	3

### Year 5, Semester 1

CSB980/1	Project*	15	
	OR		
EEB789/1	Project*	15	
EEB562	Transmission & Propagation	6	3
	One Computing Elective Unit	12	3
	One Electrical Elective Unit	7	3

### Year 5, Semester 2

CSB980/2	Project*	15	
	OR		
EEB789/2	Project*	15	
EEB888	Design 4	10	3
	One Computing Elective Unit	12	3
	One Electrical Elective Unit	7	3

### Electrical Elective Units

EEB761	Statistical Communication	7	3
EEB922	Computer Controlled Systems	7	3
EEB955	Power Electronics Applications	7	3
EEB961	Communication Techniques	7	3
EEB962	Microwave Systems Engineering	7	3
EEB969	Digital Spectral Analysis	7	3
EEB972	Integrated Electronic Techniques	7	3

\* Unit extends over two semesters.

MAB895	Introduction to Cryptology	7	4
MAB896	Error Control of Data Compression Techniques	7	4
MAB920	Coding & Encryption Techniques	12	3
MAB982	Advanced Topics in Cryptology	12	4

### Computing Elective Units

#### Semester 1

ITB441	Graphics	12	3
ITB442	Artificial Intelligence	12	3
ITB443	Systems Programming	12	3
ITB444	Special Studies	12	3

#### Semester 2

ITB443	Systems Programming	12	3
ITB445	Special Studies	12	3
ITB449	Expert Systems	12	3

**Note:** Any advanced unit not previously completed in either the Electrical and Computer Engineering or Computing Science degree courses may be studied as an elective unit. Not all of these elective units will be run. Please see the Faculty Office/School noticeboards before enrolling.

### Industrial Experience Units\*

EEB901	Industrial Experience 1	5 weeks
EEB902	Industrial Experience 2	5 weeks
EEB903	Industrial Experience 3	5 weeks

## ■ 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 – Mr Rob Humphreys

Law – Professor Malcolm Cope

### Professional recognition

The combined Accountancy/Law degree satisfies the academic requirements of the Institute of Chartered Accountants in Australia and the Australian Society of Certified Practising Accountants. The course also satisfies the academic requirements of the Solicitors' Board and the Barristers' Board of Queensland.

### Full-Time Course Structure

		<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
<b>Year 1, Semester 1</b>			
AYB110	Accounting	12	4
EPB150	Microeconomics	12	3
LWB101/1	Introduction to Law+	12	3

\* See Special Notes relating to Bachelor of Engineering courses.

+ Unit extends over two semesters.

LWB104/1	Legal Research & Writing 1*	4	1
MAB173	Quantitative Methods	12	3

### Year 1, Semester 2

AYB111	Financial Accounting	12	4
EPB110	Business Statistics	12	3
ISB892	Business Computing	12	4
LWB101/2	Introduction to Law*	12	3
LWB104/2	Legal Research & Writing 1*	4	1

### Year 2, Semester 1

AYB101	Computerised Accounting Systems	12	3
AYB112	Company Accounting	12	4
EPB140	Macroeconomics	12	3
LWB102/1	Law of Contract*	12	3
LWB103/1	Torts*	12	3

### Year 2, Semester 2

BSB102	Management & Organisation	12	3
FNB111	Finance 1	12	4
FNB123	Managerial Accounting 1	12	4
LWB102/2	Law of Contract*	12	3
LWB103/2	Torts*	12	3

### Year 3, Semester 1

AYB210	Auditing	12	3
FNB112	Finance 2	12	4
FNB124	Managerial Accounting 2	12	4
LWB202/1	Criminal Law & Procedure*	12	3
LWB203/1	Constitutional Law*	12	3

### Year 3, Semester 2

AYB113	Accounting Theory & Applications	12	4
	Accounting Elective Unit	12	
LWB202/2	Criminal Law & Procedure*	12	3
LWB203/2	Constitutional Law*	12	3
	One Law Elective Unit	8-12	2-3

### Year 4, Semester 1

LWB201/1	Land Law*	12	3
LWB301/1	Equity*	12	3
LWB303/1	Commercial Law*	12	3
LWB311/1	Administrative Law*	12	3
	One Law Elective Unit	8-12	2-3

### Year 4, Semester 2

LWB201/2	Land Law*	12	3
LWB301/2	Equity*	12	3
LWB303/2	Commercial Law*	12	3
LWB311/2	Administrative Law*	12	3
	One Law Elective Unit	8-12	2-3

### Year 5, Semester 1

LWB309	Succession	8	2
LWB401/1	Company Law & Partnership*	12	3
LWB402	Evidence	12	3
LWB403/1	Taxation Law*	12	3
LWB404/1	Civil Procedure*	12	3
LWB414/1	Drafting & Legal Transactions*	8	2
LWB415/1	Legal Research & Writing 2*	4	1

\* Unit extends over two semesters.

## Year 5, Semester 2

LWB401/2	Company Law & Partnership*	12	3
LWB403/2	Taxation Law*	12	3
LWB404/2	Civil Procedure*	12	3
LWB409	Professional Conduct (5 weeks)	2	2
LWB414/2	Drafting & Legal Transactions*	8	2
LWB415/2	Legal Research & Writing 2*	4	1

**Note:** In second semester of the final year of their course, all students must complete six hours of classes in Insolvency Law conducted by the Faculty of Law.

## Elective Units

1. The offering of elective units in any semester depends on sufficient minimum enrolments in the unit and the availability of staff. The choice of all elective units is subject to the approval of the relevant Dean of Faculty.
2. The accounting elective unit may be chosen from units offered by the School of Accountancy (units prefixed AYB), the School of Finance (units prefixed FNB) and the School of Accounting Legal Studies (units prefixed ALB). However the following incompatible units are not available:

AYB100	Accounting for Managers
FNB115	Financial Institutions – Management
FNB117	Financial Modelling

All units offered by the School of Accounting Legal Studies (units prefixed ALB) are incompatible with units offered by the Faculty of Law.

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

**Location:** Gardens Point campus

**Course Duration:** 5 years full-time

**Total Credit Points:** 560 - 568

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

### Course Coordinators:

Information Technology – Mr Hamish Bentley  
Laws – Professor Malcolm Cope

### 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.

### Full-Time Course Structure

		Credit Points	Contact Hrs/Wk
<b>Year 1, Semester 1</b>			
ITB101	Laboratory 1 (Computing Environments)	12	3
ITB210	Formal Representation	12	3
ITB310	Information Management 1	12	3
ITB410	Software Development 1	12	3

\* Unit extends over two semesters.



**Year 1, Semester 2**

BSB103	Business Communications & Applications	12	3
ITB102	Laboratory 2 (Computer Applications)	12	3
ITB411	Software Development 2	12	3
ITB412	Technology of Information Systems	12	3

**Year 2, Semester 1**

ITB220	Database Design	12	3
ITB221	Laboratory 3 (Commercial Programming)	12	3
ITB520	Data Communications	12	3
LWB101/1	Introduction to Law*	12	3
LWB102/1	Law of Contract*	12	3
LWB104/1	Legal Research & Writing 1*	4	1

**Year 2, Semester 2**

ITB223	Laboratory 4 (4GL Programming)	12	3
ITB224	Systems Analysis & Design 2	12	3
LWB101/2	Introduction to Law*	12	3
LWB102/2	Law of Contract*	12	3
LWB104/2	Legal Research & Writing 1*	4	1

**Year 3, Semester 1**

ITB230	Project	12	
ITB232	Database Management	12	3
LWB103/1	Torts*	12	3
LWB202/1	Criminal Law & Procedure*	12	3
LWB203/1	Constitutional Law*	12	3

**Year 3, Semester 2**

ITB241	Information Systems Management	12	3
LWB103/2	Torts*	12	3
LWB202/2	Criminal Law & Procedure*	12	3
LWB203/2	Constitutional Law*	12	3

**Year 4, Semester 1**

LWB201/1	Land Law*	12	3
LWB301/1	Equity*	12	3
LWB303/1	Commercial Law*	12	3
LWB311/2	Administrative Law*	12	3
	One Law Elective Unit	8-12	2-3

**Year 4, Semester 2**

LWB201/2	Land Law*	12	3
LWB301/2	Equity*	12	3
LWB303/2	Commercial Law*	12	3
LWB311/2	Administrative Law*	12	3
	One Law Elective Unit	8-12	2-3

**Year 5, Semester 1**

LWB309	Succession	8	2
LWB401/1	Company Law & Partnership*	12	3
LWB402	Evidence	12	3
LWB403/1	Taxation Law*	12	3
LWB414/1	Drafting & Legal Transactions*	8	2
LWB415/1	Legal Research & Writing 2*	4	1

**Year 5, Semester 2**

LWB401/2	Company Law & Partnership*	12	3
LWB403/2	Taxation Law*	12	3
LWB404/2	Civil Procedure*	12	3
LWB409	Professional Conduct (5 weeks)	2	2
LWB414/2	Drafting & Legal Transactions*	8	2

\* Unit extends over two semesters.

LWB415/2	Legal Research & Writing 2	4	1
	AND		
	One Law Elective Unit	8-12	2-3

### Elective Units

The offering of elective units in any semester will depend on sufficient minimum enrolments in the unit and the availability of staff. The choice of all elective units 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:** 560

**Standard Credit Points/Full-Time Semester:** 56

**Course Coordinator:** Professor Walter Wong, Dr Ramasay Iyer

### Professional Recognition

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

### Special Course Requirements

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 industrial experience, the student must first enrol in the unit and then submit a description of the employment to the course coordinator on an industrial experience record form completed by both the student and employer. Forms are available from the faculty office of Built Environment and Engineering.

Full-Time Course Structure		Credit Points	Contact Hrs/Wk
<b>Year 1, Semester 1</b>			
BSB103	Business Communication & Application Systems	12	3
CEB184	Engineering Mechanics 1	7	3
CSB191	Introduction to Computing	4	2
MAB187	Engineering Mathematics 1A	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
MAB188	Engineering Mathematics 1B	6	3
MEB111	Dynamics	7	3
MEB133	Materials 1	6	3

\* See Special Notes relating to Bachelor of Engineering courses.

**Year 2, Semester 1**

ALB110	Business Law	12	3
EEB101	Circuits & Measurements	7	3
EPB116	Economic Principles	12	3
MAB493/1	Engineering Mathematics 2*	6	3
MEB121	Engineering Graphics	6	3
MEB230	Materials 2	6	3
MEB250	Thermodynamics 1	6	3

**Year 2, Semester 2**

AYB100	Accounting for Managers	12	3
EEB202	Electromagnetics	6	3
MAB493/2	Engineering Mathematics 2*	6	3
MEB101	Design 1	8	3
MEB251	Thermodynamics 2	6	3
MEB471	Manufacturing Engineering 1	6	3
MKB142	Consumer Behaviour	12	3

**Year 3, Semester 1**

HRB116	Innovation and Entrepreneurship	12	3
MEB313	Mechanics 1	6	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

**Year 3, Semester 2**

EEB272	Digital Principles	3	1.5
HRB131	Personnel Management & Industrial Relations	12	3
MEB231	Materials 3	6	3
MEB462	Fluids 2	6	3
MEB670	Industrial Engineering 1	6	3
MEB673	Manufacturing Engineering 3	7	3
MKB146	Services Marketing	12	3

**Year 4, Semester 1**

EEB372	Sequential Logic	7	3
FNB107	Corporate Finance	12	3
ITB520	Data Communications	9	3
MEB463	Tribology	6	3
MEB771	Industrial Engineering 2	6	3
MEB773	Design for Manufacturing 1	7	3
MKB151	Marketing Research	12	3

**Year 4, Semester 2**

EEB474	Microprocessors	6	3
FNB120	International Finance	12	3
MEB640	Automation 1	7	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**

MEB900/1	Manufacturing Project*	12	3
MEB971	Knowledge Based Manufacturing Systems	7	3
MEB977	Computer Control of Manufacturing Systems	7	3
MKB143	Export Management	12	3
MKB149	International Marketing	12	3
	One Group A Elective Unit	7	3

\* Unit extends over two semesters

## Year 5, Semester 2

MEB900/2	Manufacturing Project*	12	3
MEB970	Manufacturing Resources Planning	7	3
MEB975	Design of Manufacturing Systems	7	3
MKB155	Strategic Marketing	12	3
HRB135	Small Business Management	12	3
	OR		
MKB153	Professional Marketing Practice	12	3
	One Group B Elective Unit	7	3

## Industrial Experience Units+

MEB270	Industrial Experience 1	5 weeks
MEB470	Industrial Experience 2	5 weeks
MEB600	Industrial Experience 3	5 weeks

## Elective Units

GROUP A			
MEB500	Special Topic 1	7	3
MEB531	Advanced Materials	7	3
MEB973	Plastics Technology	7	3
GROUP B			
MEB483	Design 3	7	3
MEB601	Special Topic 2	7	3
MEB810	Industrial Noise & Vibrations	7	3

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

**Location:** Gardens Point campus

**Course Duration:** 4.5 years full-time

**Total Credit Points:** 468

**Standard Credit Points/Full-Time Semester:** 52 (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 Surveyors Board of Queensland for registration as a surveyor, but not for licensing.

## Full-Time Course Structure

		Credit Points	Contact Hrs/Wk
<b>Year 1, Semester 1</b>			
ITB101	Laboratory 1 (Computing Environments)	12	3
ITB210	Formal Representation	12	3
ITB410	Software Development 1	12	3
MAB199	Survey Mathematics 1	12	6
SVB111	Data Presentation 1	6	3

\* Unit extends over two semesters.

+ See Special Notes relating to Bachelor of Engineering courses.

**Year 1, Semester 2**

BSB103	Business Communications & Applications	12	3
ITB102	Laboratory 2 (Computer Applications)	12	3
ITB412	Technology of Information Systems	12	3
MAB495	Survey Mathematics 2	12	6
MAB499	Basic Statistics for Surveyors	5	2

**Year 2, Semester 1**

ITB220	Database Design	12	3
ITB310	Information Management 1	12	3
ITB321	Systems Analysis	12	3
SVB121	Land Surveying 1	13	6
SVB470	Land Administration 2	4	3

**Year 2, Semester 2**

ITB411	Software Development	12	3
ITB520	Data Communications	12	3
SSB937	Applied Cognitive Psychology	12	3
SVB212	Data Presentation 2A	2	1
SVB226	Land Surveying 2	13	6
SVB270	Land Administration 1	6	3

**Year 3, Semester 1**

ITB320	Laboratory 3 (Database Applications)	12	3
PHB170	Physics for Surveyors	12	3
SVB311	Data Presentation 3	5	3
SVB331	Observations & Adjustments 1	4	2
SVB352/1	Land Studies A*	6	3
SVB393	Land Surveying 3	10	5
SVB573	Land Administration 3	6	3

**Year 3, Semester 2**

ITB323	Laboratory 4 (Information Support Methods)	12	3
SVB343	Photogrammetry 1	6	3
SVB352/2	Land Studies A*	6	3
SVB430	Land Surveying 4	9	4
SVB431	Observations & Adjustments 2	4	2
SVB442	Geodetic Computations	9	4

**Year 4, Semester 1**

ITB331	Information Management 2 (Analysis & Use)	12	3
ITB441	Graphics	12	2
MAB795	Survey Mathematics 3	6	3
SVB443	Photogrammetry 2	11	6
SVB535	Land Surveying 5	5	3
SVB551	Land Valuation	6	3

**Year 4, Semester 2**

IFB880/1	Project*	12	3
ITB341	Information Management 3 (Strategy & Planning)	12	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**

IFB880/2	Project*	12	3
ITB330	Information Issues & Values	12	3

\* Unit extends over two semesters.

SVB563	Land Information Systems 2	4	2
	Elective Unit - Business	12	3
	Elective Unit - General	12	3

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

Recommended Business Elective Units are:

First Semester Elective Units		Credit Points	Contact Hrs/Wk
AYB100	Accounting for Managers	12	3
COB144	Literature & Communication	12	3
EPB150	Microeconomics	12	3
HRB126	Management Processes	12	3
MKB140	Principles of Marketing	12	3
MJB118	Fundamentals of Photography	12	3
MJB126	Video Production	12	3
Second Semester Elective Units			
COB134	Speech Communication: Theory & Practice	12	3
EPB124	Government	12	3
EPB140	Macroeconomics	12	3
HRB126	Management Processes	12	3
HRB131	Personnel Management & Industrial Relations	12	3
MKB124	Public Relations Principles	12	3
MKB140	Principles of Marketing	12	3

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

**Location:** Gardens Point campus

**Course Duration:** 1 year part-time

**Standard Credit Points/Part-Time Semester:** 24

**Coordinators:** Mrs Jenny Danslow, Ms Deborah 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 unit entry requirements – to undertake study in engineering, science or technology courses at QUT.

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

Students are guided into a study program which takes account of their background and the course to which entry is sought. Units are selected from the following list designed specifically for the NOTE program. Students also undertake two or three units from the first year of the course to which entry is sought.

		Credit Points	Contact Hrs/Wk
CHS200	Chemistry	6	3
PHS021	Introductory Physics	6	3

MAS090	Mathematics (a full year unit)	12	3
	OR		
MAS092	Mathematics A (a single semester unit)	6	3
ITB001	Computing Practice (NOTE) 1	6	3
ITB002	Computing Practice (NOTE) 2	6	3





# FACULTY OF ARTS

# Courses

■ Master of Arts (AA22) .....	187
■ Graduate Diploma of Social Science (Counselling) (SS10) .....	188
■ Bachelor of Arts (Honours) (Drama or Visual Arts) (AA40) .....	189
■ Bachelor of Arts (HU20) .....	190
■ Bachelor of Arts (Dance) (AA11) .....	194
■ Bachelor of Arts (Drama) (AA21) .....	195
■ Bachelor of Arts (Music) (AA51) .....	198
■ Bachelor of Arts (Visual Arts) (AA71) .....	200
■ Bachelor of Social Science (Human Services) (SS07) .....	201
■ Bachelor of Social Science (Psychology) (SS07) .....	201
■ Associate Diploma in Arts (Dance) (AA10) .....	206

## Course Structures

### ■ Master of Arts (AA22)

With majors in: Dance, Drama, Music, Visual Arts, Humanities and Social Science

**Location:** Kelvin Grove campus (Dance, Drama, Music, Visual Arts)  
Carseldine campus (Humanities, Social Science)

**Course Duration:** 2 years full-time, 4 years part-time (3-year qualified entry)  
1 year full-time, 2 years part-time (4-year qualified entry)

**Total Credit Points:** 192 or 96

**Standard Credit Points/Full-Time Semester:** 48

**Course Coordinator:** Professor Peter Lavery

#### Discipline Coordinators:

Dance – Ms Kristin Bell

Drama – Mr Brad Haseman

Music – Mr Adrian Thomas

Visual Arts – Dr Joe Airo-Farulla

Humanities – Dr Wayne Hindsley

Social Science – Professor Gisela Kaplan

#### Entry Requirements

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

- (i) an approved honours degree; or
- (ii) an approved postgraduate diploma; or
- (iii) an approved bachelor's degree at an acceptable standard; or
- (iv) other qualifications deemed acceptable which may include substantial relevant experience.

#### Course Structure

Students with an approved 4-year entry qualification will normally undertake a 96 credit point Research Project.

Students in Dance, Drama, Music or Visual Arts with an approved 3-year entry qualification will normally undertake 48 credit points of core studies and **either** 48 credit points of elective units and a 96 credit point Research Project **or** a 144 credit point Research Project.

		Credit Points	Contact Hrs/Wk
<b>Core Units</b>			
<b>Semester 1</b>			
AAN003	Aesthetic Codes in Contemporary Society	12	3
AAN002	Arts Research Methods 2	12	3
AAN004	Graduate Seminar	12	3

## Semester 2

AAN001	Arts Research Methods 1	12	3
AAN004	Graduate Seminar	12	3

## Research Project

The Research Project in Dance, Drama, Music and Visual Arts may be undertaken as a 96 credit point or 144 credit point project. Students proceed through the project by enrolling each semester in one of the repeatable units:

ATN001	Research Project - 1 unit	12
ATN002	Research Project - 2 units	24
ATN003	Research Project - 3 units	36
ATN004	Research Project - 4 units	48

## Elective Units

Details of elective units available can be obtained from the unit coordinator in each discipline (applicable only in Dance, Drama, Music and Visual Arts).

## ■ 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 (including Practicum 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 2	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 Unit Select from List	8	3
	Elective Unit Select from List	8	3

**Elective Units**

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:** 48

For regulations regarding the Honours program consult the University-wide and Interfaculty Courses section of this Handbook.

**Course Coordinators:**

Drama – Ms Jacqueline Hamilton

Visual Arts – Dr Joe Airo-Farulla

**BACHELOR OF ARTS (HONOURS) (DRAMA)**

<b>Course Structure</b>		<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
<b>Semester 1</b>			
AAB001	Research Project	24	
AAN200	Dramaturgy	12	3
AAN202	Textual Analysis	12	3
AAN003	Aesthetic Codes in Contemporary Society	12	3
	OR		
AAN006	Independent Study	12	3

**Semester 2**

AAB001	Research Project	24	
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>Semester 1</b>			
AAB020	Research Project	24	
AAB021	Advanced Research Methods	12	3
AAB023	Advanced Readings in Australian Art	12	3
AAN700	Contemporary Debates on the Nature of Art	12	3

## Semester 2

AAN004	Graduate Seminar	12	3
AAB020	Research Project	24	

## ■ Bachelor of Arts (HU20)

**Location:** Carseldine 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 Wayne Hindsley

Students must complete the first year requirements and one of the major study sequences offered by the School of Humanities. They may choose to complete a second major study sequence, one or more minor study sequences, or a range of elective units. Students may complete up to 144 credit points offered by other schools/faculties as part of their degree.

Course Structure	Credit Points	Contact Hrs/Wk
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### Year 1, Semester 1

Students enrol in four of the following five core units:

HUB603	Texts & Interpretation (compulsory for all students)	12	3
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plus three of the following:

HUB600	Australian Society & Culture	12	3
HUB601	Human Identity & Change	12	3
HUB602	The Humanities Traditions	12	3

Languages other than English (specialising in one of French, German, Indonesian or Japanese)

HUB641	Introductory Indonesian 1	12	3
HUB660	Introductory Japanese 1	12	3
	OR (for students who have completed Year 12 Japanese or equivalent)		
HUB662	Japanese Language & Culture 1	12	3
HUB670	Introductory French 1	12	3
	OR (for students who have completed Year 12 French or equivalent)		
HUB672	French Language & Culture 1	12	3
HUB735	Introductory German 1	12	3
	OR (for students who have completed Year 12 German or equivalent)		
HUB737	German Language & Culture 1	12	3

### Year 1, Semester 2

Students enrol in four units, including at least two of the following entry level units to the various major/minor study sequences offered by the School of Humanities.

#### Major Study Sequences

HUB610	Approaches to Asian/Pacific Studies	12	3
HUB680	Approaches to Australian Studies	12	3
HUB720	Approaches to European Studies	12	3

#### Minor Study Sequences

HUB686	Introduction to Politics - An Australian Perspective	12	3
HUB750	Understanding Ethics	12	3
HUB760	Approaches to Feminist/Gender Studies	12	3

Students may enrol in up to two units offered by other schools/faculties.

## Years 2 and 3

Students must complete a minimum of 84 credit points of advanced level units in their chosen major study sequence. Up to two of these advanced level units may be from approved offerings of other schools/faculties.

### Details of Major Study Sequences

#### ASIA/PACIFIC STUDIES

Asia/Pacific Studies offers four options. Students studying one of the three language options must complete a 120 credit point extended major.

#### Option 1 – Asia/Pacific Political, Cultural and Development Studies (96 credit points)

Units offered by the School of Humanities:

##### Introductory (Compulsory)

HUB610	Approaches to Asian/Pacific Studies	12	3
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##### Advanced (Elective Units)

HUB611	Indonesian Social Geography	12	3
HUB612	Modern Indonesian Studies	12	3
HUB613	Social Geography of Thailand	12	3
HUB614	Contemporary Thailand	12	3
HUB615	Modern China & Japan	12	3
HUB616	Modern India & South-East Asia	12	3
HUB617	Women, Aid & Development	12	3
HUB618	Asian Women: Tradition, Colonisation & Revolution	12	3
HUB619	Pacific Culture Contact	12	3
HUB620	The Pacific Since 1945	12	3
HUB621	North American Studies	12	3
HUB622	Latin American Studies	12	3
HUB623	Asian/Pacific Political Studies	12	3

#### Option 2 – Indonesian Language and Culture (120 credit points)

Units offered by the School of Humanities:

HUB610	Approaches to Asian/Pacific Studies	12	3
	AND EITHER		
HUB611	Indonesian Social Geography	12	3
	OR		
HUB612	Modern Indonesian Studies	12	3
	Sequence of six Indonesian language units	72	
	In-country summer school or equivalent	24	

#### Option 3 – Japanese Language and Culture (120 credit points)

Units offered by the School of Humanities:

HUB610	Approaches to Asian/Pacific Studies	12	3
HUB615	Modern China & Japan	12	3
	Sequence of six Japanese language units	72	
	In-country summer school or equivalent	24	

#### Option 4 – French Language and Culture (120 credit points)

Units offered by the School of Humanities:

HUB610	Approaches to Asian/Pacific Studies	12	3
	AND EITHER		
HUB619	Pacific Culture Contact	12	3
	OR		
HUB620	The Pacific Since 1945	12	3
	Sequence of six language units	72	
	In-country summer school or equivalent	24	

## AUSTRALIAN STUDIES

Australian Studies offers four minor study sequences. A major studies sequence in Australian Studies constitutes 96 credit points and must be taken from at least two of the minor studies sequences.

### Option 1 – Contemporary Australia

Units offered by the School of Humanities:

#### Introductory (Compulsory)

HUB680	Approaches to Australian Studies	12	3
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#### Advanced (Elective Units)

HUB682	Social Movements in Australia	12	3
HUB683	Australian Geographical Studies	12	3
HUB685	Resources Planning & Development	12	3
HUB686	Introduction to Politics: An Australian Perspective	12	3
HUB687	Contemporary Moral Problems: An Australian Perspective	12	3

### Option 2 – Historical Australia

Units offered by the School of Humanities:

#### Introductory (Compulsory)

HUB680	Approaches to Australian Studies	12	3
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#### Advanced (Elective Units)

HUB690	Themes in Australian History	12	3
HUB691	Women's Past - Women's History to Feminist Historiography	12	3
HUB692	Conspiracy & Dissent in Australian History	12	3
HUB693	Australian Race Relations	12	3

### Option 3 – Aboriginal and Torres Strait Islander Studies

Units offered by the Aboriginal and Torres Strait Islander Unit in conjunction with the School of Humanities:

#### Introductory (Compulsory)

HUB700	Aboriginal & Torres Strait Islander Culture Studies	12	3
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#### Advanced (Elective Units)

HUB690	Themes in Australian History	12	3
HUB693	Australian Race Relations	12	3
HUB701	Aboriginal & Torres Strait Islander Literature	12	3
HUB702	The Australian Dreaming: The Indigenous Construction	12	3
HUB703	Politics & Political Culture in Indigenous Australia	12	3

### Option 4 - Australian Literary and Cultural Studies

Units offered by the School of Humanities:

#### Introductory (Compulsory)

HUB680	Approaches to Australian Studies	12	3
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#### Advanced (Elective Units)

HUB701	Aboriginal & Torres Strait Islander Literature	12	3
HUB710	Australian Literary Studies	12	3
HUB711	Australian Women's Writing	12	3
HUB712	Australian Children's & Adolescent Fiction	12	3



## EUROPEAN STUDIES

European Studies offers three options. Students studying one of the language options must complete a 120 credit point extended major.

### Option 1 – European History, Literature and Culture (96 credit points)

Units offered by the School of Humanities:

#### Introductory (Compulsory)

HUB720	Approaches to European Studies	12	3
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#### Advanced (Elective Units)

HUB721	The Classical World (to 500 AD)	12	3
HUB722	Foundations of Modern Europe	12	3
HUB723	Europe in the Twentieth Century	12	3
HUB724	Nineteenth Century English Literature & Culture	12	3
HUB725	Twentieth Century English Literature & Culture	12	3
HUB726	European Literature & Social Change	12	3
HUB727	European Literature & Identity	12	3
HUB728	Popular Literature	12	3
HUB729	Shakespeare in the Modern World	12	3
HUB730	Women's Writing & Representation	12	3

### Option 2 – French Language and Culture (120 credit points)

Units offered by the School of Humanities:

HUB720	Approaches to European Studies	12	3
HUB723	Europe in the Twentieth Century	12	3
	Sequence of six French language units	72	
	In-country summer school or equivalent	24	

### Option 3 – German Language and Culture (120 credit points)

Units offered by the School of Humanities:

HUB720	Approaches to European Studies	12	3
HUB723	Europe in the Twentieth Century	12	3
	Sequence of six German language units	72	
	In-country summer school or equivalent	24	

## MINOR STUDY SEQUENCES

### Applied Ethics

Units offered by the School of Humanities:

#### Introductory (Compulsory)

HUB750	Understanding Ethics	12	3
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#### Advanced (Elective Units)

HUB751	Ethics & Public Life	12	3
HUB752	The Just Society	12	3
HUB753	Ethical Decision-Making	12	3
HUB754	Feminism & Ethics	12	3
HUB755	Vulnerable Identities	12	3

**Feminist Studies** – Students may complete the minor by enrolling in one of the following two strands. Other combinations of units may be undertaken with the approval of the course coordinator.

### Strand 1 – Gender and Representation

#### Introductory (Compulsory)

HUB760	Approaches to Feminist Studies	12	3
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**Advanced (Elective Units)**

HUB711	Australian Women's Writing	12	3
HUB730	Women's Writing & Representation	12	3
HUB754	Feminism & Ethics	12	3

**Strand 2 – Women's Historical and Spatial Perspectives****Introductory (Compulsory)**

HUB760	Approaches to Feminist Studies	12	3
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**Advanced (Elective Units)**

HUB618	Asian Women: Tradition, Colonisation & Revolution	12	3
HUB691	Women's Past: Women's History to Feminist Historiography	12	3
HUB617	Women, Aid & Development	12	3

**Political Studies**

Units offered by the School of Humanities:

**Introductory (Compulsory)**

HUB686	Introduction to Politics: An Australian Perspective	12	3
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**Advanced (Elective Units)**

HUB623	Asian/Pacific Political Studies	12	3
HUB682	Social Movements in Australia	12	3
HUB752	The Just Society	12	3
HUB771	Political Ideologies	12	3

Other elective units offered by other schools/faculties may be included in the minor study sequence with prior approval by the course coordinator.

**■ Bachelor of Arts (Dance) (AA11)**

**Location:** Kelvin Grove campus

**Course Duration:** 3 years full-time

**Total Credit Points:** 288

**Course Coordinator:** Mrs Susan Street

Course Structure		Credit Points	Contact Hrs/Wk
<b>Year 1, Semester 1</b>			
AAB051	Arts in Society	12	3
AAB100	Composition 1*	8	3
AAB101	Dance Kinesiology & Alignment*	12	3
AAB104	Music*	8	3
AAB121	Contemporary Technique 1*	16	7.5
AAB123	Classical Technique 1*	16	6
AAB125	Dance Analysis & History 1	12	3
<b>Year 1, Semester 2</b>			
AAB106	Dance Analysis & History 2	12	3

\* Unit extends over two semesters.

**Year 2, Semester 1**

AAB109	Practicum*	12	
AAB122	Contemporary Technique 2*	16	7.5
AAB124	Classical Technique 2*	16	6
AAB126	Composition & Production Techniques	16	5
	Elective Unit/s		

**Year 2, Semester 2**

AAB111	Dance Research	8	2
AAB112	History of Australian Theatre Dance	8	3
	Elective Unit/s		

**Note:** Year 2 Elective unit/s must total 20 credit points for the year.

**Year 3, Semester 1**

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
	Elective Unit/s		

**Year 3, Semester 2**

AAB118	Dance Independent Study	16	
	OR		
AAB119	Jazz & Folk Dance	12	3
	Elective Unit/s		

**Note:** Year 3 Elective unit/s must total 36 credit points for the year.

**Elective Units**

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 units 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:** Associate Professor Rod Wissler

\* Unit extends over two semesters.

Course Structure		Credit Points	Contact Hrs/Wk
<b>OPEN (OPE)</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	6
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	Theatre 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 Unit/s	24	
<b>Year 3, Semester 1</b>			
AAB217	Arts Research & Evaluation 1	12	3
AAB219	Professional Studies	12	3
	Elective Unit/s	24	
<b>Year 3, Semester 2</b>			
AAB218	Arts Research & Evaluation 2	8	2
AAB220	Theatre Studies Option	8	2
AAB227	Practicum 3	8	
	Elective Unit/s	24	
<b>ACTING (ACT)</b>			
<b>Year 1 (as for Open)</b>			
<b>Year 2, Semester 1</b>			
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
AAB246	Music & Dance	6	3
<b>Year 2, Semester 2</b>			
AAB212	Development of Theatre 2	8	3
AAB226	Practicum 2	12	
AAB242	Voice 2	8	2
AAB246	Music & Dance	6	3
AAB247	Acting 3	12	4
<b>Year 3, Semester 1</b>			
AAB219	Professional Studies	12	3

AAB227	Practicum 3	8	
AAB243	Voice 3	8	2
AAB248	Acting 4	16	4
AAB249	Dance Styles	8	2
<b>Year 3, Semester 2</b>			
AAB244	Voice 4	8	2
AAB250	Theatre Production	36	
<b>ARTS MANAGEMENT (THM)</b>			
<b>Year 1, Semester 1 (as for Open)</b>			
<b>Year 1, Semester 2</b>			
AAB202	Acting 1	8	6
AAB207	Stagecraft 2	8	4
AAB225	Practicum 1	12	
COB160	Professional Communication	12	3
ISB892	Business Computing	12	3-4
<b>Year 2, Semester 1</b>			
AAB261	The Arts Environment	12	3
AAB262	Arts Finance	8	2
AAB264	Performing Arts Promotion	8	2
AYB100	Accounting for Managers	12	3
BSB102	Management & Organisation	12	3
<b>Year 2, Semester 2</b>			
AAB212	Development of Theatre 2	8	3
AAB226	Practicum 2	12	
AAB263	Arts Marketing	12	3
MKB124	Public Relations Principles	12	3
<b>Year 3, Semester 1</b>			
AAB217	Arts Research & Evaluation	12	3
AAB219	Professional Studies	12	3
AAB265	Issues in Arts Management	12	3
AAB266	Production Planning	8	2
<b>Year 3, Semester 2</b>			
AAB227	Practicum 3	8	
AAB250	Theatre Production	36	
<b>STAGE MANAGEMENT (STM)</b>			
<b>Year 1 (as for Open)</b>			
<b>Year 2, Semester 1</b>			
AAB211	Development of Theatre 1	8	3
AAB261	The Arts Environment	12	3
AAB281	Technical Aspects of Theatre Design	8	2
AAB289	Production Techniques 1	12	6
AAB292	Stage Management 1	12	3
<b>Year 2, Semester 2</b>			
AAB212	Development of Theatre 2	8	3
AAB226	Practicum 2	12	
AAB287	The Stage Set	8	3
AAB290	Production Techniques 2	8	3
AAB293	Stage Management 2	8	6
<b>Year 3, Semester 1</b>			
AAB219	Professional Studies	12	3
AAB266	Production Planning	8	2

AAB291	Production Techniques 3	8	3
AAB294	Stage Management 3	12	3
COB160	Professional Communication	12	4

### **Year 3, Semester 2**

AAB227	Practicum 3	8	
AAB250	Theatre Production	36	

### **EDUCATIONAL DRAMA (EDD)**

#### **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	8	3
	Elective Unit/s	24	

### **Year 3, Semester 1**

AAB217	Arts Research & Evaluation 1	12	3
AAB219	Professional Studies	12	3
	Elective Unit/s	24	

### **Year 3, Semester 2**

AAB220	Theatre Studies Option	8	2
AAB227	Practicum 3	8	
AAB305	Advanced Drama Process	8	3
	Elective Unit/s	24	

### **DRAMA ELECTIVE UNITS**

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 units 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 (COS)</b>			
<b>Year 1, Semester 1</b>			
AAB051	Arts & Society	12	3
AAB561	Practical Studies A1	12	5
AAB563	Aural & Written Musicianship 1	12	5
AAB566	Practical Studies B1	12	3
<b>Year 1, Semester 2</b>			
AAB562	Practical Studies A2	12	5
AAB564	Aural & Written Musicianship 2	12	5
AAB567	Practical Studies B2	12	3
AAB568	Music in the 20th Century: 1900-1950	12	4
<b>Year 2, Semester 1</b>			
AAB501	Chief Practical Study 2	8	2
AAB504	Ensemble Studies C2	6	6
AAB507	Aural Musicianship 2	4	2
AAB516	Systems of Part Writing 1	6	2
AAB518	Literature & Analysis of Music 1	8	4
	Minor Studies 2	12	
<b>Year 2, Semester 2</b>			
AAB501	Chief Practical Study 2	8	2
AAB504	Ensemble Studies C2	6	6
AAB507	Aural Musicianship 2	4	2
AAB513	Music Studies 2 (Music Elective Unit)	8	2-4
AAB516	Systems of Part Writing 1	6	2
AAB519	Literature & Analysis of Music 2	8	4
	Minor Studies 3 (Non-Music Elective Unit)	12	
<b>Year 3, Semester 1</b>			
AAB502	Chief Practical Study 3	8	2
AAB505	Ensemble Studies C3	6	6
AAB514	Music Studies 3 (Music Elective Unit)	8	2-4
AAB517	Systems of Part Writing 2	6	2
AAB520	Literature & Analysis of Music 3	8	4
	Minor Studies 4 (Non-Music Elective Unit)	12	
<b>Year 3, Semester 2</b>			
AAB502	Chief Practical Study 3	8	2
AAB505	Ensemble Studies C3	6	6
AAB511	Twentieth Century Music 3	8	4
AAB515	Music Studies 4	8	2-4
AAB517	Systems of Part Writing 2	6	2
	Minor Studies 5 (Elective Unit)	12	
<b>INSTRUMENTAL PERFORMANCE STRAND (INP)</b>			
<b>Year 1, Semesters 1 and 2</b>			
As for Combined Studies			
<b>JAZZ AND POPULAR MUSIC STRAND (POP)</b>			
<b>Year 1, Semester 1</b>			
AAB051	Arts & Society	12	3
AAB561	Practical Studies A1	12	5
AAB563	Aural & Written Musicianship 1	12	5
AAB569	Composition & Technology 1	12	3

**Year 1, Semester 2**

AAB562	Practical Studies A2	12	5
AAB564	Aural & Written Musicianship 2	12	5
AAB568	Music in the 20th Century: 1900-1950	12	4
AAB570	Composition & Technology 2	12	3

**Year 2, Semester 1**

AAB501	Chief Practical Study 2	8	2
AAB516	Systems of Part Writing 1	6	2
AAB518	Literature & Analysis of Music 1	8	4
AAB553	Popular Music Composition 3	8	3
AAB555	Improvisation	6	3
AAB558	Ensemble Studies P2	8	7

**Year 2, Semester 2**

AAB501	Chief Practical Study 2	8	2
AAB513	Music Studies 2 (Music Elective Unit)	8	2-4
AAB516	Systems of Part Writing 1	6	2
AAB519	Literature & Analysis of Music 2	8	4
AAB553	Popular Music Composition 3	8	3
AAB555	Improvisation	6	3
AAB558	Ensemble Studies P2	8	7

**Year 3, Semester 1**

AAB502	Chief Practical Study 3	8	2
AAB505	Ensemble Studies C3	6	6
AAB514	Music Studies 3 (Music Elective Unit)	8	2-4
AAB517	Systems of Part Writing 2	6	2
AAB520	Literature & Analysis of Music 3	8	4
AAB554	Popular Music Composition 4	6	3
AAB556	Popular Music, Sociology, Attitudes & Applications	8	2

**Year 3, Semester 2**

AAB502	Chief Practical Study 3	8	2
AAB505	Ensemble Studies C3	6	6
AAB511	Twentieth Century Music 3	8	4
AAB515	Music Studies 4 (Music Elective Unit)	8	2-4
AAB517	Systems of Part Writing 2	6	2
AAB554	Popular Music: Composition 4	6	3

Elective units 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 Studies 1	24	18



**Year 1, Semester 2**

AAB051	Arts in Society	12	3
	OR		
	Elective Unit	12	
AAB703	Foundation Media Studies 2	36	18

**Year 2, Semester 1**

AAB704	Art Since 1945	12	3
AAB705	Practicum 1*	12	
	OR		
	Elective Unit	12	
AAB707	Advanced Media Studies 1	24	12

**Year 2, Semester 2**

AAB705	Practicum 1*	12	
	OR		
	Elective Unit	12	
AAB708	Advanced Media Studies 2	24	12
AAB711	Australian Art	12	3

**Year 3, Semester 1**

AAB705	Practicum 1*	12	
	OR		
AAB713	Research Methods Seminar+	24	
	OR		
	Elective Unit	12	
AAB709	Advanced Media Studies 3	24	18
AAB712	Contemporary Arts Issues #	12	3

**Year 3, Semester 2**

AAB706	Practicum 2	12	
AAB710	Advanced Media Studies 4	24	12
AAB714	Professional Studies**	12	4
	OR		
	Elective Unit	12	

**Elective Units**

AAB444	Visual Arts of Asia	12	3
AAB720	Extended Media Study 2	12	3
AAB721	Extended Media Study 4	12	3
AAB722	Extended Media Study 6	12	3
AAB724	Renaissance Studies	12	3

**■ Bachelor of Social Science (Human Services) (SS07)****■ Bachelor of Social Science (Psychology) (SS07)****Location:** Carseldine campus**Course Duration:** 3 years full-time, 6 years part-time**Total Credit Points:** 288**Course Coordinators:**

Human Services Major – Mr Ross Daniels

Psychology Major – Dr Dick Hicks

\* Unit is taken once only, in any of the three indicated semesters.

+ Prerequisite unit taken only by students seeking entry to Honours year.

# Students enrolled in AAB713 Research Methods Seminar are not required to enrol in AAB712.

\*\* Required unit for all students not undertaking a minor outside of Visual Arts.

## HUMAN SERVICES MAJOR (HSE)

### Entry Requirements

Applicants must have completed Year 12 (or equivalent).

Provision exists for the entry and support of persons from educationally disadvantaged backgrounds.

All non-school leaver applicants must complete a personal suitability questionnaire. Non-school leaver applicants are normally required to attend an interview.

Full-Time Course Structure		Credit Points	Contact Hrs/Wk
<b>Year 1, Semester 1</b>			
SSB000	Australian Society: Introduction to Sociology	12	3
SSB001	Human Development 1	12	3
SSB002	Studies in Human Rights 1	12	3
SSB003	Introduction to Psychology	12	3
<b>Year 1, Semester 2</b>			
SSB004	Social Inequality in Australia	12	3
SSB005	Human Development 2	12	3
SSB006	Studies in Human Rights 2	12	3
SSB007	Interpersonal Processes & Skills	12	3
<b>Year 2, Semester 1</b>			
SSB008	Counselling Theory & Practice 1	12	3
SSB009	The Australian Welfare State	12	3
SSB010	Professional Resources 1	12	3
Select one from the following:			
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	3
Select one from the following:			
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
<b>Inter-Semester Period</b>			
SSB026	Fieldwork Practice 1	N/A	360 hrs for 10 weeks
<b>Year 3, Semester 1</b>			
COB029	Organisational Skills 2	12	3
SSB027	Community Work	12	3
SSB028	Australian Political Structures & Institutions	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
SSB040	Directed Studies in Human Service Practice & Theories	12	3

### Part-Time Course Structure

There are a number of options to undertake part-time slots. For details of the part-time course, contact the course coordinator.

### PSYCHOLOGY MAJOR (PSY)

#### Entry Requirements

##### High School Applicants

Year 12 (or equivalent) is required with Sound Achievement over four semesters in English.

Fields used for selection within OP are: Primary B; Secondary C. Studies in Mathematics would be desirable for entry to the Psychology Major.

##### Non-School Leaver Entry

Non-school leaver applicants for the majors in psychology will be admitted on the basis of academic merit along, if so decided, with consideration of responses to a questionnaire and/or an interview process. That is, consideration is being given to the use of the alternate entry scheme for the Psychology Majors (ie. using experience and other relevant indicators of potential).

##### TAFE Associate Diploma Holders

- Minimum age – not applicable;
- Experience requirements – not applicable;
- Quality of Associate Diploma – Grade Point Average must be equivalent to normal Queensland Tertiary Entrance Score minimum cut-off point (ie. Credit or better in a completed Associate Diploma).
- Credit policy – Normally up to 96 credit points will be granted for completed studies in a relevant associate diploma. Where subjects only are deemed relevant appropriate credit points will be granted on a subject to subject basis. Each application to be considered individually.
- Personal suitability – Interviews and assessment of personal suitability may be required as part of the selection and allocation process.

##### Overseas Candidates

- Qualifications must be equivalent to normal Queensland Achievement standards as for high school applicants.
- Non-residents must pass a relevant English test and achieve the following scores:  
TOEFL 580  
IELTS 6.0

\* Practicum completed during mid-semester break.

### Special Consideration

Applicants who do not meet the requirements for normal or other entry may present documentary evidence of qualifications, experience and other relevant information for special consideration through QUT's Alternative Entry program.

### Full-Time Course Structure

**Credit  
Points**

**Contact  
Hrs/Wk**

#### Year 1, Semester 1

SSB000	Australian Society: Introduction to Sociology	12	3
SSB001	Human Development 1	12	3
SSB002	Studies in Human Rights 1	12	3
SSB003	Introduction to Psychology	12	3

#### Year 1, Semester 2

SSB004	Social Inequality in Australia	12	3
SSB005	Human Development 2	12	3
SSB007	Interpersonal Processes & Skills	12	3
SSB930	Psychological Research Methods	12	3

#### Year 2, Semester 1

SSB008	Counselling Theory & Practice 1	12	3
SSB915	Social Psychology	12	3
SSB950	Research Design & Data Analysis	12	3
	Elective Unit	12	

#### Year 2, Semester 2

SSB017	Group Work	12	3
SSB933	Cognitive Psychology	12	3
SSB934	Biology & Behaviour	12	3
	OR		
SSB936	Personality & Psychopathology	12	3
	Elective Unit	12	

#### Year 3, Semester 1

Four of:			
SSB943	Occupational & Vocational Psychology	12	3
SSB946	Counselling Theory & Practice 2	12	3
	OR		
	Elective Unit		
SSB951	Advanced Statistical Analysis	12	3
	Psychology Elective Unit	12	3
	Elective Unit	12	

#### Year 3, Semester 2

SSB941	Psychological Assessment	12	3
	Elective Unit	12	
	Psychology Elective Unit	12	3
	Elective Unit	12	

### Psychology Elective Units

The following elective units are offered in the Psychology program to enable diversity of choice at undergraduate and early postgraduate level and to allow innovative approaches to current and perceived community needs. However, such elective units will be offered subject to staff availability and sufficient student enrolment to justify running the unit.

SSB804	Psychology & Gender	12	3
SSB938	Psychology of Violence	12	3
SSB939	Alcohol & Other Drug Studies	12	3

SSB940	Ethical, Legal & Professional Issues in Psychology	12	3
SSB942	Independent Study (Psychology)	12	3
SSB944	Industrial & Organisational Psychology	12	3
SSB946	Counselling Theory & Practice 2	12	3
SSB948	Advanced Developmental Psychology	12	3
SSB949	Introduction to Family Therapy	12	3
SSB952	Research Project	12	3
SSB953	Special Topic	12	3

Other elective unit approved by Head of School.

**Note:** Elective units are to be chosen in consultation with the Head of School or appointed nominee/adviser to ensure that progression rules for the degree and/or for fourth year study are followed.

Bachelor of Business and Bachelor of Applied Science students completing a minor or a secondary major in Psychology at the Gardens Point campus may choose from the following units also but are to note incompatible units. (These units are not normally open to Bachelor of Social Science students who will follow the Social Science program).

SSB912	Psychology (incompatible with Introduction to Psychology)
SSB913	Developmental Psychology (incompatible with Human Development 1 & 2)
SSB917	Physiological & Health Psychology (incompatible with Biology & Behaviour)
SSB937	Applied Cognitive Psychology (incompatible with Cognitive Psychology)

Other units as advised from time to time.

Students should seek advice before finalising their choices.

### Part-Time Course Structure

		<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
<b>Year 1, Semester 1</b>			
SSB000	Australian Society: Introduction to Sociology	12	3
SSB003	Introduction to Psychology	12	3
<b>Year 1, Semester 2</b>			
SSB004	Social Inequality in Australia OR	12	3
SSB930	Psychological Research Methods	12	3
SSB007	Interpersonal Processes & Skills	12	3
<b>Year 2, Semester 1</b>			
SSB001	Human Development 1	12	3
SSB002	Human Rights 1	12	3
<b>Year 2, Semester 2</b>			
SSB004	Social Inequality in Australia OR	12	3
SSB930	Psychological Research Methods	12	3
SSB005	Human Development 2	12	3
<b>Year 3, Semester 1</b>			
SSB008	Counselling Theory & Practice	12	3
SSB915	Social Psychology	12	3
<b>Year 3, Semester 2</b>			
SSB017	Group Work	12	3
SSB936	Personality & Psychopathology	12	3
<b>Year 4, Semester 1</b>			
SSB950	Research Design & Data Analysis	12	3
	Elective Unit	(12)	

**Year 4, Semester 2**

Two of:

SSB933	Cognitive Psychology	12	3
SSB934	Biology & Behaviour	12	3
	Elective Unit	(12)	

**Year 5, Semester 1**

Two of:

SSB943	Occupational & Vocational Psychology	12	3
SSB951	Advanced Statistical Analysis	12	3
	Elective Unit	(12)	

**Year 5, Semester 2**

SSB941	Psychological Assessment	12	3
	Elective Unit	(12)	

**Year 6, Semester 1**

Two of:

SSB946	Counselling Theory & Practice 2	12	3
	Psychology Elective Unit	(12)	
	Elective Unit	(12)	

**Year 6, Semester 2**

	Psychology Elective Unit	(12)	
	Elective Unit	(12)	

**■ Associate Diploma in Arts (Dance) (AA10)****Location:** Kelvin Grove campus**Course Duration:** 2 years full-time**Total Credit Points:** 192**Course Coordinator:** Mrs Susan Street

Course Structure		Credit Points	Contact Hrs/Wk
<b>Year 1, Semester 1</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
AAX111	Repertoire & Prac Period 1	12	
AAX117	Ballet Technique 1	8	7.5
AAX121	Contemporary Technique 1	8	7.5
<b>Year 1, Semester 2</b>			
AAX112	Repertoire & Prac Period 2	16	
AAX118	Ballet Technique 2	8	7.5
AAX122	Contemporary Technique 2	8	7.5

\* Unit extends over two semesters.

**Year 2, Semester 1**

AAX102	Dance Composition 2*	8	2
AAX106	Dance Styles 2*	8	3
AAX113	Repertoire & Prac Period 3	16	
AAX115	Dance History*	8	1.5
AAX116	Stagecraft*	8	2
AAX119	Ballet Techniques 3	8	7.5
AAX123	Contemporary Technique 3	8	7.5

**Year 2, Semester 2**

AAX114	Repertoire & Prac Period 4	16	
AAX120	Ballet Technique 4	8	7.5
AAX124	Contemporary Technique 4	8	7.5

\* Unit extends over two semesters.





# **FACULTY OF BUILT ENVIRONMENT AND ENGINEERING**

**BUILT  
ENVIRONMENT  
& ENGINEERING**

# Courses

■ Master of Applied Science (Research) (BN71).....	211
■ Master of Built Environment (BN73).....	217
■ Master of Engineering (BN72) .....	224
■ Master of Engineering Science (Civil) (CE74) .....	231
■ Master of Engineering Science (Computer Engineering) (EE75) .....	233
■ Master of Engineering Science (Engineering Management) (ME76).....	234
■ Graduate Diploma in Computer Engineering (EE65).....	235
■ Graduate Diploma in Industrial Design (AR61).....	236
■ Graduate Diploma in Interior Design (AR62) .....	237
■ Graduate Diploma in Landscape Architecture (PL66).....	238
■ Graduate Diploma in Municipal Engineering (CE63) .....	240
■ Graduate Diploma in Project Management (CN64) .....	242
■ Graduate Diploma in Surveying Practice (SV68) .....	244
■ Graduate Diploma in Urban and Regional Planning (PL67).....	245
■ Graduate Diploma in Urban Design (PL69).....	246
■ Graduate Certificate in Architectural Practice (AR80) .....	248
■ Graduate Certificate in Project Development (CN81) .....	249
■ 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) ...	252
■ Bachelor of Applied Science (Construction Management) (CN31) .....	257
■ Bachelor of Applied Science (Property Economics) (CN32) .....	261
■ Bachelor of Applied Science (Quantity Surveying) (CN33).....	263
■ Bachelor of Architecture (AR41) .....	267
■ Bachelor of Applied Science (Surveying) (SV34) .....	269
□ Special notes relating to Bachelor of Engineering courses.....	271
■ Bachelor of Engineering (Aerospace Avionics) (EE43).....	272
■ Bachelor of Engineering (Civil) (CE42) .....	274
■ Bachelor of Engineering (Electrical and Computer Engineering) (EE44) .....	279
■ Bachelor of Engineering (Mechanical) (ME45) .....	283
■ Bachelor of Technology (Mechanical) (ME35) – Conversion Program .....	287
■ Associate Diploma in Cartography (SV24) .....	288
■ Associate Diploma in Civil Engineering (CE21).....	289
■ Associate Diploma in Electrical Engineering (EE22) .....	292
■ Associate Diploma in Mechanical Engineering (ME23) .....	295

# FACULTY OF BUILT ENVIRONMENT AND ENGINEERING

## Course Structures

### ■ Master of Applied Science (Research) (BN71)

**Location:** Gardens Point campus

#### Introduction

The objectives of the program are:

- ☐ to provide for postgraduate educational opportunities in the specialised fields of applied science relating to the built environment, by means of a program which involves either an advanced contribution to knowledge or an advanced application of existing knowledge;
- ☐ to provide further education in research methods;
- ☐ to enable graduates employed in industry to undertake further education by thesis and research;
- ☐ to enable industrial organisations and other external agencies to sponsor a candidate 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 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 & Engineering through its Faculty Research Committee. The program is offered by Architecture, Interior and Industrial Design, Construction Management and Planning, Landscape Architecture and Surveying.

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

- ☐ have completed the approved course of study involving advanced work under the supervision of a Thesis Panel prescribed by the Faculty Research Committee of the Built Environment & Engineering Academic Board;

- ☐ have submitted and the Faculty Research Committee accepted a thesis, together with reports, and/or documents where applicable, prepared under the supervision of the Thesis Panel;
- ☐ have completed such other work as may be prescribed by the Faculty Research Committee; and
- ☐ submit to the Faculty Research Committee a declaration signed by the candidate that they have not been a candidate for another tertiary award without permission of the Faculty Research Committee.

## **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 Faculty Research Committee and enrolment by the candidate in the Master of Applied Science before the offer of admission to the program lapses. Candidates are required to complete an enrolment form each semester.

2.4 The minimum academic qualifications for admission to the Master of Applied Science (Research) program, are:

- ☐ possession of an honours degree; or
- ☐ possession of a qualification judged equivalent by the Faculty Research Committee; or
- ☐ a grade point average of 5 or better in a graduate diploma in a relevant discipline with demonstrated potential for further study and/or evidence of professional standing; or
- ☐ a grade point average of 5 or better in a coursework master degree program in a relevant discipline with demonstrated potential for further study and/or evidence of professional standing.

An applicant for the Master of Applied Science (Research) program without the minimum entry requirement may present a case for admission based on the submission of evidence of qualifications which demonstrate the applicant's capacity to pursue the course of study.

The case may be based on the following:

- (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 Research Committee;\* or
- (iii) The submission of technical publications or other appropriate evidence which satisfies the Faculty Research Committee that advanced knowledge has been acquired in a branch of applied science relevant to the built environment in which the applicant has worked as a professional practitioner 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 they are to undertake an appropriate qualifying program; or
- ☐ a graduate student if they are considered by the Faculty Research Committee to meet the requirements for entry.

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

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.

2.6 A candidate shall receive confirmed registration as a graduate student when they:

- ☐ have satisfied the requirements for admission and achieved by work and study a standard recognised by the Faculty Research Committee; or
- ☐ have been accepted for provisional registration in the faculty and has achieved, by subsequent work and study, a standard recognised by the Faculty Research Committee;
- ☐ have satisfied the Faculty Research Committee that they are a suitable person to undertake the program;
- ☐ have satisfied the Faculty Research Committee that they can devote sufficient time to the research and study.

2.7 In considering an applicant for registration, the Faculty Research Committee 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; and
- ☐ the proposed program has relevance to the needs of industry.

2.8 An application for registration should set out systematically and fully the candidate's intended course of study including the following:

- ☐ a description of the area of study within which the candidate's course lies;
- ☐ a summary of the work 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;
- ☐ the location at which the work will be undertaken, the amount of time which will be devoted to it and the resources required;
- ☐ details of academic qualifications and supporting evidence, including copies of results for each year of courses undertaken;
- ☐ a brief account of industrial experience;
- ☐ a list of publications;
- ☐ sponsorship details;
- ☐ statement of approval by the Head of School and/or Director of Centre;
- ☐ any other relevant material.

2.9 The program is offered on a full-time and/or a part-time basis. Part-time students normally will be employed in some professional capacity during the day and carry out their research on a part-time basis at QUT, in their place of employment or in a sponsoring organisation.

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

2.11 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.

2.12 The Faculty Research 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 their studies or has no reasonable expectation of completing the course of study within the maximum time allowed (see Section 4).

2.13 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 Faculty Research Committee shall prescribe.

### **3. Course of Study**

3.1 A candidate for the degree of Master of Applied Science (Research) shall undertake a program of research and investigation on a topic approved by the Faculty Research Committee.

3.2 All research activity 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 research be primarily directed towards industry need.

3.3 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.

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

3.5 The course of study will normally include:

- ☐ participation in University scholarly activities such as research seminars, teaching and publication;
- ☐ regular face-to-face interactions with supervisors; and
- ☐ a program of supervised research and investigation.

The course of study may also include a program of assessed coursework.

3.6 Coursework at masters level demands a capacity for critical analysis and a specialisation of research interests not normally appropriate for an undergraduate program. Such coursework may be conducted in a number of ways:

- ☐ as advanced lecture courses;
- ☐ as seminars in which faculty and candidates present critical studies of selected problems within the subject field;
- ☐ as independent study or reading courses; or
- ☐ as research projects conducted under faculty supervision.

Candidates will be encouraged to attend conferences, where these are related to the field of the research.

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

#### **4. Period of Time for Completion of Course Study**

4.1 The duration of study for candidates with four years of relevant study at tertiary level will normally be one year of full-time study or the part-time equivalent.

4.2 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 masters degree candidates, as two years.

4.3 A registered graduate full-time student shall present the thesis for examination after a period of at least one year but not more than two years has elapsed from the time of confirmed registration. A registered graduate part-time student shall present the thesis for examination after a period of at least two years but not more than four years has elapsed from the time of confirmed registration. In special cases the Faculty Research Committee may approve a shorter period.

4.4 Time limits are measured in years from the first day of the first semester in which the candidate was enrolled as a graduate student. Periods of exclusion or absence with or without approval are included.

4.5 Candidates who exceed these limits may be asked to show cause why they should not have their registration in the program terminated. Such candidates must make formal application to the Faculty Research Committee to have their registration extended beyond the normal time. Details of the candidate's progress shall be presented to the 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, a time limit will be set for the maximum period of registration in the program.

4.6 Candidates are notified of exclusion from the program by registered mail. They have right of appeal to the Academic Appeals Committee.

#### **5. Supervision**

5.1 The Faculty Research Committee shall appoint two or more supervisors with appropriate experience in respect of each candidate. One shall be nominated as the Principal Supervisor and others as associate supervisors. The supervisors shall form a Thesis Panel.

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

5.3 The Thesis Panel shall supervise all aspects of the candidate's work program, shall receive reports from the candidate on progress and shall recommend both on successful and unsuccessful completion of components of the coursework incorporated in the candidate's program, on progress on the thesis research and on continued enrolment.

5.4 The Thesis Panel shall receive a formal oral and written report from the candidate at least once every semester on progress on the research.

#### **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 Faculty Research Committee shall not admit a candidate to a program of research based at the University unless it has received:

- a supporting statement from the Head of School and/or Director of Centre in which the study is proposed that, in their opinion, the applicant is a suitable person to undertake a research program leading to the master degree, that the program is supported, that the school or centre is willing to undertake the responsibility of supervising the work of the applicant and that resources are available to support the proposed research.

6.3 The Faculty Research Committee shall not admit a candidate to a program of research based at a sponsoring establishment unless it has received:

- a supporting statement from the employer or director of the sponsoring institution that they are aware of the course rules and are prepared to sponsor and support the applicant, that the applicant will be provided with facilities and time to undertake the research project and that they are willing to accept responsibility for supervising the applicant's work, and
- a supporting statement from the head of QUT school or director of centre in which the study is proposed that, in their opinion, the applicant is a suitable 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/centre 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 all the requirements of the document *Requirements for Presenting Theses*.

7.2 Not later than six months after confirmed registration, a candidate shall submit the title of their thesis for approval by the Faculty Research Committee, and after approval has been granted, no change shall be made except with the permission of the committee.

7.3 The candidate shall give two months written notice of intention to submit their thesis through the Principal Supervisor.

7.4 The thesis shall comply with the following requirements:

- a significant proportion of the work described (as determined by the Faculty Research Committee) must have been carried out subsequent to initial registration for the master degree;
- it must describe a program of work carried out by the candidate and must involve either an advanced contribution to the knowledge of the subject or an advanced 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 Faculty Research Committee 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 candidate has previously submitted for another degree or similar award;
- the thesis may consist of reports, plans and/or documents or may be supported by these if they have a bearing on the thesis. Other supporting documents such as published papers may also be submitted with the thesis; and
- the thesis shall contain an abstract of not more than 300 words.



7.5 Except with the specific permission of the Faculty Research 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 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 Faculty Research Committee shall appoint two/three examiners, of whom at least one 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 A candidate may be required to make an oral defence of the thesis.

8.4 On receipt of the reports from the examiners, the Faculty Research Committee shall:

- (i) recommend that the thesis be accepted without modification, and to the Academic Committee that the candidate be awarded the degree; or
- (ii) recommend to the Academic Committee that the candidate be awarded the degree, after any minor amendments requested by the examiners have been made; or
- (iii) recommend that the thesis not be accepted until major revisions have been made. Such revisions might be rewriting one of the sections, with or without additional work; or
- (iv) not accept the thesis and terminate the candidate's registration.

8.5 If the examiners' reports are conflicting, the Faculty Research Committee may, after appropriate consultation with the Thesis Panel, resubmit the thesis to the examiners with copies of the examiners' reports and/or seek the advice of a further external examiner. After due consideration of further reports from the examiners, a majority decision will be accepted by the Faculty Research Committee.

## **■ Master of Built Environment (BN73)**

**Location:** Gardens Point campus

**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
- (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.

### Full-Time Course Structure

		<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
<b>Year 1, Semester 1</b>			
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

		<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
<b>Year 1, Semester 1</b>			
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:** Mr Danny O'Hare

## 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.

<b>Full-Time Course Structure*</b>	<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
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**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	4	1
PLN257	Research Method AND	4	1
PLN255	Concentration Studies A	4	1
PLN256	Concentration Studies B	8	2
	Elective Unit	8	2
	OR		
	Elective Units which may include one or more of the above totalling	20	5

**Year 1, Semester 2**

PLN252	Advanced Practice 2	8	2
PLN254	Professional Seminars	8	2
PLN258	Dissertation	24	6
	Elective Unit	8	2

<b>Part-Time Course Structure*</b>	<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
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**Year 1, Semester 1**

IFN001	Advanced Information Retrieval Skills	4	1
PLN250	Masters Studio	12	3
PLN251	Advanced Practice 1	4	1
PLN255	Concentration Studies A	4	1
	OR		
	Elective Unit/s totalling	4	1

**Year 1, Semester 2**

PLN252	Advanced Practice 2	8	2
PLN254	Professional Seminars AND	8	2
PLN256	Concentration Studies B	8	2
	OR		
	Elective Unit/s totalling	8	2

**Year 2, Semester 1**

PLN253	Practice Seminar	4	1
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\* Students must complete a minimum of 48 credit points per semester in the full-time course and a minimum of 24 credit points per semester in the part-time course.

PLN257	Research Method AND	4	1
PLN255	Concentration Studies A	4	1
	OR		
PLN256	Concentration Studies B	8	2
	OR		
	Elective Unit	8	2
	OR		
	Elective Units which may include one or more of the above totalling	16	4

## **Year 2, Semester 2**

PLN258	Dissertation	24	6
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## **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 CNN441 (one semester full-time) or CNN442 (two semesters part-time).

### **Entry Requirements**

Applicants for admission shall hold:

- (i) a bachelor degree and demonstrated potential in professional activity to undertake a masters degree course; or
- (ii) a bachelor degree and a relevant graduate diploma or qualifying program with a grade point average of 5 or better; or
- (iii) qualifications deemed equivalent to (i) or (ii) by the Dean of Faculty on the recommendation of the course coordinator; and
- (iv) shall normally have at least three years of appropriate work experience after graduation.

As the coursework of the Graduate Diploma in Project Management and the Master of Built Environment (Project Management) are identical, students may transfer from the graduate diploma to the masters degree program providing that they have a grade point average of 5 or better.

At the completion of the coursework component of the masters degree program but before the completion of the Dissertation, students have the option of electing to graduate with the Graduate Diploma in Project Management.

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

**BUILDING PROJECT MANAGEMENT SPECIALISATION**  
**Full-Time Course Structure**

**Credit  
Points**      **Contact  
Hrs/Wk**

**Year 1, Semester 1**

CNP417	Design Management	6	2
CNP426/1	Project Development	6	2
CNP429/1	Cost Management & Economics	6	2
CNP430/1	Current Issues	9	3
CNP431/1	Project Management	6	2
CNP433/1	Project Management Law	6	2
CNP434	Time Management 1	6	2

**Year 1, Semester 2**

CNP414	Time Management 2	6	2
CNP426/2	Project Development	6	2
CNP429/2	Cost Management & Economics	6	2
CNP430/2	Current Issues	9	3
CNP431/2	Project Management	6	2
CNP433/2	Project Management Law	6	2
CNP437	Field Trip	12	5 days

**Year 2, Semester 1**

CNN441	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
CNP429/1	Cost Management & Economics	6	2
CNP431/1	Project Management	6	2
CNP434	Time Management 1	6	2

**Year 1, Semester 2**

CNP414	Time Management 2	6	2
CNP429/2	Cost Management & Economics	6	2
CNP431/2	Project Management	6	2
CNP437	Field Trip	12	5 days

**Year 2, Semester 1**

CNP426/1	Project Development	6	2
CNP430/1	Current Issues	9	3
CNP433/1	Project Management Law	6	2

**Year 2, Semester 2**

CNP426/2	Project Development	6	2
CNP430/2	Current Issues	9	3
CNP433/2	Project Management Law	6	2

**Year 3, Semester 1**

CNN442/1	Dissertation	24	2
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**Year 3, Semester 2**

CNN442/2	Dissertation	24	2
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**BUILT  
ENVIRONMENT  
& ENGINEERING**

**PROPERTY DEVELOPMENT SPECIALISATION****Full-Time Course Structure**

		<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
<b>Year 1, Semester 1</b>			
CNP422	Specialist Valuations	6	2
CNP426/1	Project Development	6	2
CNP430/1	Current Issues	9	3
CNP431/1	Project Management	6	2
CNP433/1	Project Management Law	6	2
CNP438/1	Real Estate Investment Analysis	6	2
CNP439	Property Management	6	2

**Year 1, Semester 2**

CNP426/2	Project Development	6	2
CNP430/2	Current Issues	9	3
CNP431/2	Project Management	6	2
CNP433/2	Project Management Law	6	2
CNP437	Field Trip	12	5 days
CNP438/2	Real Estate Investment Analysis	6	2
CNP667	Applied Computing	6	2

**Year 2, Semester 1**

CNN441	Dissertation	48	4
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**Part-Time Course Structure**

		<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
<b>Year 1, Semester 1</b>			
CNP426/1	Project Development	6	2
CNP431/1	Project Management	6	2
CNP438/1	Real Estate Investment Analysis	6	2
CNP439	Property Management	6	2

**Year 1, Semester 2**

CNP426/2	Project Development	6	2
CNP431/2	Project Management	6	2
CNP437	Field Trip	12	5 days
CNP438/2	Real Estate Investment Analysis	6	2

**Year 2, Semester 1**

CNP422	Specialist Valuations	6	2
CNP430/1	Current Issues	9	3
CNP433/1	Project Management Law	6	2

**Year 2, Semester 2**

CNP430/2	Current Issues	9	3
CNP433/2	Project Management Law	6	2
CNP667	Applied Computing	6	2

**Year 3, Semester 1**

CNN442/1	Dissertation	24	2
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**Year 3, Semester 2**

CNN442/2	Dissertation	24	2
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## URBAN DESIGN MAJOR

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

**Total Credit Points:** 96

**Standard Credit Points/Full-Time Semester:** 48

**Coordinator for Urban Design Major:** Mr Danny O'Hare

### Entry Requirements

#### NORMAL ENTRY

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 Dean of the Faculty on the recommendation of the course coordinator.

A person provisionally enrolled is required to satisfactorily undertake a qualifying program which may include course units, 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.

### Articulation to the Masters Program from the Graduate Diploma in Urban Design

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 Master of Built Environment (Urban Design). A grade point average of 5 or better in the course is normally required for progression to the masters level.

### Focus in the Masters Program

The masters program includes skills and knowledge development through set coursework in common with the Graduate Diploma in Urban Design, but also requires individual research and the writing of a dissertation.

### Full-Time Course Structure\*

		Credit Points	Contact Hrs/Wk
<b>Year 1, Semester 1</b>			
IFN001	Advanced Information Retrieval Skills	4	1
PLN101	Urban Design Analysis Studio	12	3
PLN103	Urban Design Conjecture Studio	12	3
PLN105	Urban Design Field Studies	4	10 days
PLN114	Applied Research Techniques	4	1
PLN201	History of Urban Systems	4	1
PLN204	Urban Design Theory & Criticism	4	1
Plus a selection from the following totalling at least 4 credit points:			
CNP439	Property Management	6	2
PLN402	Law & Legislation in Urban Design	4	1

\* Students must complete a minimum of 48 credit points per semester in the full-time course and a minimum of 24 credit points per semester in the part-time course.

PLP216	Computer Aided Data Analysis	2	1
PLP511	Environmental Psychology	4	2

### Year 1, Semester 2

PLN102	Urban Design Context Studio	12	3
PLN501	Dissertation	24	

With a selection of the following totalling a minimum of 12 credit points:

PLN255	Concentration Studies A	4	1
PLN256	Concentration Studies B	8	2
PLN302	Urban Landscape	4	1
PLN304	Urban Services & Functions	4	1
PLN401	Computer Applications in Urban Design	4	1
PLP505	Conservation Theory	3	1
	Elective Unit/s		

### Part-Time Course Structure\*

#### Year 1, Semester 1

IFN001	Advanced Information Retrieval Skills	4	1
PLN101	Urban Design Analysis Studio	12	3
PLN201	History of Urban Systems	4	1
PLN204	Urban Design Theory & Criticism	4	1

#### Year 1, Semester 2

PLN102	Urban Design Context Studio	12	3
PLN105	Urban Design Field Studies	4	10 days
PLN114	Applied Research Techniques	4	1

Plus a selection from the following totalling at least 4 credit points:

PLN302	Urban Landscape	4	1
PLN304	Urban Services & Functions	4	1
PLN401	Computer Applications in Urban Design	4	1
PLP216	Computer Aided Data Analysis	2	1
PLP505	Conservation Theory	3	1

#### Year 2, Semester 1

PLN103	Urban Design Conjecture Studio	12	3
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With a selection of the following totalling a minimum of 12 credit points:

CNP439	Property Management	6	2
PLN402	Law & Legislation in Urban Design	4	1
PLP216	Computer Aided Data Analysis	2	1
PLP511	Environmental Psychology	4	2

#### Year 2, Semester 2

PLN501	Dissertation	24	
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## ■ 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, by means of a program which involves either an advanced contribution to knowledge or an advanced application of existing knowledge;

\* Students must complete a minimum of 48 credit points per semester in the full-time course and a minimum of 24 credit points per semester in the part-time course.



- ☐ to provide further education in research methods;
- ☐ to further 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 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 the Academic Committee.

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

1.4 This program is administered by the Academic Board of the Faculty of Built Environment and Engineering through its Faculty Research 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:

- ☐ have completed the approved program involving advanced work under the supervision of a Thesis Panel prescribed by the Faculty Research Committee of the Built Environment and Engineering Academic Board;
- ☐ have submitted and the Faculty Research Committee accepted a thesis, together with reports, and/or documents where applicable, prepared under the supervision of the Thesis Panel;
- ☐ have completed such other work as may be prescribed by the Faculty Research Committee; and
- ☐ submit to the Faculty Research Committee a declaration signed by the candidate that they have not been a candidate for another tertiary award without permission of the Faculty Research Committee.

## **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 Faculty Research Committee and enrolment by the candidate in the Master of Engineering before the offer of admission to the program lapses. Candidates are required to complete an enrolment form each semester.

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 Research Committee.

Entry to the program may be allowed to candidates without an Honours 2A degree if the candidate has a grade point average of 5 or better in the coursework component of a

masters degree program or a graduate diploma program, in a relevant discipline, together with demonstrated potential for further study and/or evidence of professional standing.

An applicant for the Master of Engineering program without the minimum entry requirement may present a case for admission based on the submission of evidence of qualifications which demonstrate the applicant's capacity to pursue the course of study.

The case may be based on the following:

- (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 Research Committee;\* or
- (iii) The submission of technical publications or other appropriate evidence which satisfies the Faculty Research Committee 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 they are to undertake an appropriate qualifying program; or
- ☐ a graduate student if they are considered by Faculty Research Committee to meet the requirements for entry.

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.

2.6 A candidate shall receive confirmed registration as a graduate student when they:

- ☐ have satisfied the requirements for admission and achieved by work and study a standard recognised by the Faculty Research Committee; or
- ☐ have been accepted for provisional registration in the faculty and has achieved, by subsequent work and study, a standard recognised by the Faculty Research Committee;
- ☐ have satisfied the Faculty Research Committee that they are a suitable person to undertake the program;
- ☐ have satisfied Faculty Research Committee that they can devote sufficient time to the research and study.

2.7 In considering an applicant for registration, the Faculty Research Committee 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; and
- ☐ the proposed program has relevance to the needs of industry.

2.8 An application for registration should set out systematically and fully the candidate's intended course of study including the following:

- ☐ a description of the area of study within which the candidate's course lies;
- ☐ a summary of the work to be undertaken, the proposed title of the thesis to be written, the aim of the proposed program, its background, the significance and possible application of the research program, and the research plan;

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

- ☐ the location at which the work will be undertaken, the amount of time which will be devoted to it and the resources required;
- ☐ details of academic qualifications and supporting evidence, including copies of results for each year of courses undertaken;
- ☐ a brief account of industrial experience;
- ☐ a list of publications;
- ☐ sponsorship details;
- ☐ statement of approval by the Head of School and/or Director of Centre; and
- ☐ any other relevant material.

2.9 The program is offered on a full-time and/or a part-time basis. Part-time students normally will be employed in some professional engineering capacity during the day and carry out their research projects on a part-time basis at QUT, in their place of employment or in a sponsoring organisation.

2.10 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 research projects at QUT for not less than three-quarters of a normal working week, averaged over each year of candidacy. Such a candidate may not devote more than 300 hours annually to teaching activities, including preparation and marking.

2.11 A candidate may be internal or external. An external candidate is one whose program of research 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.

2.12 The Faculty Research 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 their studies or has no reasonable expectation of completing the course of study within the maximum time allowed (see Section 4).

2.13 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 Faculty Research Committee 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 Faculty Research Committee.

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 projects be primarily directed towards industry need.

3.3 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 engineering area.

3.4 Where advised, a candidate may be required to complete satisfactorily a qualifying program of formal coursework in units relevant to the field of study up to a total class contact of 48 credit points.

3.5 The course of study normally will include:

- ☐ participation in University scholarly activities such as research seminars, teaching and publication;
- ☐ regular face-to-face interactions with supervisors; and
- ☐ a program of supervised research and investigation.

The course of study may also include a program of assessed coursework.

3.6 Coursework at masters level demands a capacity for critical analysis and a specialisation of research interests not normally appropriate for an undergraduate program. Such coursework may be conducted in a number of ways:

- ☐ as advanced lecture courses;
- ☐ as seminars in which faculty and candidates present critical studies of selected problems within the subject field;
- ☐ as independent study or reading courses; or
- ☐ as research projects conducted under faculty supervision.

Candidates will be encouraged to attend conferences, where these are related to the field of the research.

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

#### **4. Period of Time for Completion of Course Study**

4.1 The duration of study for candidates with four years of relevant study at tertiary level will normally be one year of full-time study or the part-time equivalent.

4.2 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 masters degree candidates, as two years.

4.3 A registered graduate full-time student shall present the thesis for examination after a period of at least one year but not more than two years has elapsed from the time of confirmed registration. A registered graduate part-time student shall present the thesis for examination after a period of at least two years but not more than four years has elapsed from the time of confirmed registration. In special cases the Faculty Research Committee may approve a shorter period.

4.4 Time limits are measured in years from the first day of the first semester in which the candidate was enrolled as a graduate student. Periods of exclusion or absence with or without approval are included.

4.5 Candidates who exceed these limits may be asked to show cause why they should not have their registration in the program terminated. Such candidates must make formal application to the Faculty Research Committee to have their registration extended beyond the normal time. Details of the candidate's progress shall be presented to the 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, a time limit will be set for the maximum period of registration in the program.

4.6 Candidates are notified of exclusion by registered mail. They have right of appeal to the Academic Appeals Committee.

## **5. Supervision**

5.1 The Faculty Research Committee shall appoint two or more supervisors with appropriate experience in respect of each candidate. One shall be nominated as the Principal Supervisor and others as associate supervisors. The supervisors shall form a Thesis Panel.

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

5.3 The Thesis Panel shall supervise all aspects of the candidate's work program, shall receive reports from the candidate on progress and shall recommend both on successful and unsuccessful completion of components of the coursework incorporated in the candidate's program, on progress on the thesis research project and on continued enrolment.

5.4 The Thesis Panel shall receive a formal oral and written report from the candidate at least once every semester on progress on the research project.

## **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 Faculty Research Committee shall not admit a candidate to a program of research based at the University unless it has received:

- ☐ a supporting statement from the Head of School and/or Director of Centre in which the study is proposed that, in their opinion, the applicant is a suitable person to undertake a research program leading to the masters degree, that the program is supported, that the school or centre is willing to undertake the responsibility of supervising the work of the applicant and that resources are available to support the proposed research.

6.3 The Faculty Research Committee shall not admit a candidate to a program of research based at a sponsoring establishment unless it has received:

- ☐ a supporting statement from the employer or director of the sponsoring institution that they are aware of the course rules and are prepared to sponsor and support the applicant, that the applicant will be provided with facilities and time to undertake the research project and that they are willing to accept responsibility for supervising the applicant's work; and
- ☐ a supporting statement from the head of QUT school or director of centre in which the study is proposed that, in their opinion, the applicant is a suitable person to undertake a research program leading to the masters degree, that the program is supported, and that after examination of the proposed external facilities and supervision, the school/centre 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 all the requirements of the document *Requirements for Presenting Theses*.

7.2 No later than six months after confirmed registration, a candidate shall submit the title of their thesis for approval by the Faculty Research Committee, and after approval has been granted, no change will be made except with the permission of the Committee.

7.3 The candidate shall give two months written notice of intention to submit their thesis through the Principal Supervisor.

7.4 The thesis shall comply with the following requirements:

- ☐ a significant proportion of the work described (as determined by the Faculty Research Committee) must have been carried out subsequent to initial registration for the masters degree;
- ☐ it must describe a program of work carried out by the candidate and must involve either an advanced contribution to the knowledge of the subject or an advanced 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 Faculty Research Committee 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 candidate has previously submitted for another degree or similar award;
- ☐ 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. Other supporting documents such as published papers may also be submitted with the thesis; and
- ☐ the thesis shall contain an abstract of not more than 300 words.

7.5 Except with the specific permission of the Faculty Research 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 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 Faculty Research Committee shall appoint two/three examiners, of whom at least one 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 A candidate may be required to make an oral defence of the thesis.

8.4 On receipt of the reports from the examiners, the Faculty Research Committee shall:

- (i) recommend that the thesis be accepted without modification, and to the Academic Committee that the candidate be awarded the degree; or
- (ii) recommend to the Academic Committee that the candidate be awarded the degree, after any minor amendments requested by the examiners have been made; or

- (iii) recommend that the thesis not be accepted until major revisions have been made. Such revisions might be rewriting one of the sections, with or without additional work; or
- (iv) not accept the thesis and terminate the candidate's registration.

8.5 If the examiners' reports are conflicting, the Faculty Research Committee may, after appropriate consultation with the Thesis Panel, resubmit the thesis to the examiners with copies of the examiners' reports and/or seek the advice of a further external examiner. After due consideration of further reports from the examiners, a majority decision will be accepted by the Faculty Research Committee.

## ■ Master of Engineering Science (Civil) (CE74)

**Location:** Gardens Point campus

**Course Duration:** 2 years part-time

**Total Credit Points:** 96

**Standard Credit Points/Part-Time Semester:** 24

**Course Coordinator:** Mr Robin Black

### 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 with a grade point average of at least 5 on a 7 point scale.

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

Entrants may transfer from the Graduate Diploma in Municipal Engineering (CE63) with a grade point average (GPA) of at least 5 after completion of at least 50 per cent of the coursework for the Graduate Diploma.

**Note:** In so doing students must comply with rule 4.1.1 of the Student Rules which states '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'.

Graduates who have completed the prescribed units for a major will have their award certificates and academic transcripts endorsed "Majoring in..."

### Course Structure

The course consists of a minimum of 96 credit points. Either 36 or 20 credit points are allocated to a project and the remainder to the non-project units. The majority of the units are common with the Graduate Diploma in Municipal Engineering (CE63). Students who do not wish to undertake a major must complete the core units plus any other combination of units, to make up the minimum total of 96 credit points. Such programs should be devised in consultation with the course coordinator.

Course Structure		Credit Points	Contact Hrs/Wk
<b>Year 1, Semester 1</b>			
CEP131	Engineering Management & Administration	12	3
	Units chosen from major	12	3
<b>Year 1, Semester 2</b>			
CEP200	Process Modelling	8	2
	Units chosen from major	16	4
<b>Year 2, Semesters 1 and 2</b>			
CEP999	Project A* AND	36	9
	Units chosen from major totalling 12 credit points	12	
	OR		
CEP998	Project B* AND	20	5
	Units chosen from major totalling 28 credit points	28	
<b>ENVIRONMENTAL ENGINEERING MAJOR (EVN)</b>			
CEP172	Water Quality Engineering+	8	2
CEP277	Waste Management#	12	3
CEP290	Environmental Law & Assessment**	8	2
Choose remaining units from:			
CEP174	Public Health Engineering Practice++	12	3
CEP276	Advanced Treatment Processes**	8	2
CEP128	Municipal Engineering Planning+	12	3
CEP310	Urban Transportation Planning#	8	2
CEP361	Drainage Engineering**	8	2
CHP691	Environmental Chemistry#	8	2
<b>LOCAL GOVERNMENT ENGINEERING MAJOR (LGN)</b>			
CEP107	Construction Management & Economics++	8	2
CEP127	Road & Traffic Engineering++	12	3
CEP128	Municipal Engineering Planning#	12	3
Choose remaining units from:			
CEP109	Municipal Law & Regulations+	8	2
CEP290	Environmental Law & Assessment++	8	2
CEP361	Drainage Engineering**	8	2
<b>PUBLIC HEALTH ENGINEERING MAJOR (PHN)</b>			
CEP172	Water Quality Engineering+	8	2
CEP174	Public Health Engineering Practice++	12	3
CEP276	Advanced Treatment Processes**	8	2
CEP277	Waste Management#	12	3
Choose remaining units from any other major.			
<b>TRANSPORTATION ENGINEERING MAJOR (TRN)</b>			
CEP127	Road & Traffic Engineering++	12	3
CEP215	Advanced Traffic Engineering**	8	2
CEP218	Transportation Engineering+	12	3

\* Unit extends over two semesters.

+ Offered in even years, Semester 1.

# Offered in even years, Semester 2.

\*\* Offered in odd years, Semester 1.

++ Offered in odd years, Semester 2.



Choose remaining units from:

CEP310	Urban Transportation Planning*
CEP361	Drainage Engineering+

8	2
8	2

Choose extra units from any other major.

## ■ 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:** Dr Sridha Sridharan

### Entry Requirements

- A Bachelor's degree in Engineering with at least second class honours; or
- 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.
- Graduates from the previous Graduate Diplomas in Automatic Control or Computer Controlled Systems or the Graduate Diploma in 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 units of the Graduate Diploma in Computer Engineering. Assessment of these units 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>Year 1, Semester 1</b>			
EEP102	Unix & C for Engineering	12	3
EEP104	Real-Time Operating Systems	12	3
EEP300/1	Research Project	24	
<b>Year 1, Semester 2</b>			
EEP101	Algorithms for Control & Signal Processing	12	3
EEP103	Computer Hardware & Interfacing	12	3
EEP300/2	Research Project	24	

\* Offered in even years, Semester 2.

+ Offered in odd years, Semester 1.

Part-Time Course Structure		Credit Points	Contact Hrs/Wk
<b>Year 1, Semester 1</b>			
EEP102	Unix & C for Engineering	12	3
EEP104	Real-Time Operating Systems	12	3
<b>Year 1, Semester 2</b>			
EEP101	Algorithms for Control & Signal Processing	12	3
EEP103	Computer Hardware & Interfacing	12	3
<b>Year 2, Semester 1</b>			
EEP300/1	Research Project	24	
<b>Year 2, Semester 2</b>			
EEP300/2	Research Project	24	

## ■ Master of Engineering Science (Engineering Management) (ME76)

**Location:** Gardens Point campus

**Course Duration:** 1 year full-time, 2 years part-time, 2 years part-time (block release)

**Total Credit Points:** 96

**Standard Credit Points/Full-Time Semester:** 48

**Course Coordinator:** Professor William Scott

### Entry Requirements

- A Bachelor's degree in Engineering (or its equivalent) with honours; or
- A Bachelor's degree in Engineering (or its equivalent), together with a relevant graduate diploma or qualifying program with a grade point average of 5 or better; or
- A Bachelor's degree in Engineering (or its equivalent), together with at least three years industrial experience, and potential demonstrated through professional activity to undertake a masters degree course.

Part-time students are expected to be employed in some professional engineering capacity during the day and to carry out their QUT studies at night. Students taking the block release option will need to be available for two intensive periods (one week and two weeks) per year for two years.

Students will specialise in either manufacturing systems engineering or plant maintenance.

Full-Time Course Structure		Credit Points	Contact Hrs/Wk
<b>Semester 1</b>			
MNN110	Management for Engineers	12	3
MEN170	Systems Modelling & Simulation	12	3
MEN190	Project	12	3

MEN140	Reliability and Maintenance Optimisation*	12	3
MEN171	Advanced Manufacturing Technologies+	12	3

### Semester 2

ACN822	Managerial Accounting for Engineers	12	3
MEN190/2	Project	12	3
MEN280	Engineering Project Management	12	3
MEN270	Manufacturing Resource Planning+	12	3
	OR		
MEN240	Maintenance Management and Technology*	12	3

### Part-Time Course Structure

**Credit Points**      **Contact Hrs/Wk**

#### Year 1, Semester 1

MEN170	Systems Modelling and Simulation	12	3
MNN110	Management for Engineers	12	3

#### Year 1, Semester 2

FNN113	Managerial Accounting for Engineers	12	3
MEN171	Advanced Manufacturing Technologies#	12	3
	OR		
MEN140	Reliability and Maintenance Optimisation+	12	3

#### Year 2, Semester 1

MEN280	Engineering Project Management	12	3
MEN270	Manufacturing Resource Planning#	12	3
	OR		
MEN240	Maintenance Management & Technology+	12	3

#### Year 2, Semester 2

MEN190	Project	24	6
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## ■ 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

Applicants 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 undergraduate units.

### Course Structure

**Credit Points**      **Contact Hrs/Wk**

#### Year 1, Semester 1

EEP102	Unix & C for Engineering	12	3
EEP104	Real-Time Operating Systems	12	3

\* For students specialising in plant maintenance.

+ For students specialising in manufacturing systems engineering.

# For students specialising in plant maintenance

**Year 1, Semester 2**

EEP101	Algorithms for Control & Signal Processing	12	3
EEP103	Computer Hardware & Interfacing	12	3

**Year 2, Semester 1 – Elective Units\***

Select two units 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 – Elective Units\***

Select two units 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:

- (i) hold an approved degree or diploma from a recognised tertiary institution, or
- (ii) have attained professional recognition by an equivalent course of study or examination.

**Professional Recognition**

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

**Full-Time Course Structure**

		<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
<b>Semester 1</b>			
ARP613	Advanced Ergonomics 1	2	1
ARP642	Case Studies	4	2
ARP671	History, Theory & Criticism of Industrial Design	2	1
ARP672	Industrial Design 1	16	6
ARP674	Industrial Design Research 1	20	8
ARP676	Advanced CAD for Industrial Designers 1	4	2
<b>Semester 2</b>			
ARP623	Advanced Ergonomics 2	4	2
ARP652	Design Management & Decision Theory	2	1
ARP653	Professional Practice	2	1
ARP673	Industrial Design 2	16	6

\* The School reserves the right to cancel any Elective Unit which has insufficient enrolment.

ARP675	Industrial Design Research 2	20	8
ARP677	Advanced CAD for Industrial Designers 2	4	2

### Part-Time Course Structure

**Credit Points**      **Contact Hrs/Wk**

#### Year 1, Semester 1

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

#### Year 1, Semester 2

ARP623	Advanced Ergonomics 2	4	2
ARP673	Industrial Design 2	16	6
ARP677	Advanced CAD for Industrial Designers 2	4	2

#### Year 2, Semester 1

ARP642	Case Studies	4	2
ARP674	Industrial Design Research 1	20	8

#### Year 2, Semester 2

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:

- hold an approved degree or diploma from a recognised tertiary institution; and
- have attained professional recognition by an equivalent course of study or examination.

### Professional Recognition

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

### Full-Time Course Structure

**Credit Points**      **Contact Hrs/Wk**

#### Semester 1

ARP502	Environmental Communications	18	7
ARP504	Professional Practice & Management for Interior Designers 1	10	3
ARP506	Brief Development	8	2
ARP601	Setting the Scene	12	4

**Semester 2**

ARP503	Workplace Design	18	6
ARP505	Professional Practice & Management for Interior Designers 2	6	2
ARP604	Conservation of Historic Interiors	16	6
ARP605	Building Evaluation	8	2

**Part-Time Course Structure****Credit  
Points****Contact  
Hrs/Wk****Year 1, Semester 1**

ARP502	Environmental Communications	18	7
ARP504	Professional Practice & Management for Interior Designers 1	10	3

**Year 1, Semester 2**

ARP503	Workplace Design	18	6
ARP505	Professional Practice & Management for Interior Designers 2	6	2

**Year 2, Semester 1**

ARP506	Brief Development	8	2
ARP601	Setting the Scene	12	4

**Year 2, Semester 2**

ARP604	Conservation of Historic Interiors	16	6
ARP605	Building Evaluation	8	2

**■ 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 a 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. Prior to beginning studies in the course (but not necessarily prior to application for admission) applicants are required to have appropriate skills and knowledge in basic design/perception, free-hand graphics and technical drawing.

Graduates of the Bachelor of Built Environment (Landscape Architecture) are credited with Year 1 (full-time) or Years 1 and 2 (part-time). Students from other backgrounds may be granted credit as appropriate to their education and 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

PLP503	History of Landscape Design	3	2
PLP505	Conservation Theory	3	1
PLP506	User & Character Design Studies	12	6
PLP516	Landscape Graphics 1	6	3
PLP521	Map & Air Photo Interpretation	3	1
PLP523	Landscape Construction 1	9	4
PLP525	Introduction to Practice 1	6	3
PLP527	Landscape Ecology 1	6	4

### Year 1, Semester 2

PLP504	Planting Design	3	1
PLP507	Site Planning	12	4
PLP514	Landscape Ecology 2	9	3
PLP515	Impacts & Assessment	3	2
PLP520	Landscape Graphics 2	6	2
PLP524	Landscape Construction 2	9	3
PLP526	Introduction to Practice 2	6	3

### Year 2, Semester 1

PLP202	Residential Landscape Design	12	3
PLP203	Urban Landscape Design	12	3
PLP210	Landscape Management A	6	4
PLP212	Advanced Landscape Graphics	6	2
PLP218	Advanced Landscape Construction 1	6	3
PLP221	Landscape Practice 1	6	2

### Year 2, Semester 2

PLP204	Landscape Planning	12	4
PLP205	Landscape Design	18	5
PLP215	School Field Trip	3	7-10 days
PLP219	Advanced Landscape Construction 2	6	3
PLP220	Landscape Management B	6	4
PLP222	Landscape Practice 2	3	2

## Part-Time Course Structure

**Credit  
Points**

**Contact  
Hrs/Wk**

### Year 1, Semester 1

PLP503	History of Landscape Design	3	2
PLP516	Landscape Graphics 1	6	3
PLP521	Map & Air Photo Interpretation	3	1
PLP525	Introduction to Practice 1	6	3
PLP527	Landscape Ecology 1	6	4

### Year 1, Semester 2

PLP504	Planting Design	3	1
PLP514	Landscape Ecology 2	9	3
PLP520	Landscape Graphics 2	6	2
PLP526	Introduction to Practice 2	6	3

### Year 2, Semester 1

PLP505	Conservation Theory	3	1
PLP506	User & Character Design Studies	12	6
PLP523	Landscape Construction 1	9	4

### Year 2, Semester 2

PLP507	Site Planning	12	4
PLP515	Impacts & Assessment	3	2
PLP524	Landscape Construction 2	9	3

**Year 3, Semester 1**

PLP202	Residential Landscape Design	12	3
PLP212	Advanced Landscape Graphics	6	2
PLP218	Advanced Landscape Construction 1	6	3

**Year 3, Semester 2**

PLP204	Landscape Planning	12	4
PLP219	Advanced Landscape Construction 2	6	3
PLP220	Landscape Management B	6	4

**Year 4, Semester 1**

PLP203	Urban Landscape Design	12	3
PLP210	Landscape Management A	6	4
PLP221	Landscape Practice 1	6	2

**Year 4, Semester 2**

PLP205	Landscape Design	18	5
PLP215	School Field Trip	3	7-10 days
PLP222	Landscape Practice 2	3	2

**■ Graduate Diploma in Municipal Engineering (CE63)**

**Location:** Gardens Point campus

**Course Duration:** 2 years part-time

**Total Credit Points:** 96

**Standard Credit Points/Part-Time Semester:** 24

**Course Coordinator:** Mr Robin Black

**Entry Requirements****NORMAL ENTRY**

To be eligible for admission an applicant must hold an acceptable degree or diploma in engineering from a recognised institution.

**QUALIFYING ENTRY**

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

**Course Structure**

The course has four majors. It consists of 40 credit points (10 semester hours) of core material common to all majors and a minimum of 56 credit points (14 semester hours) of material prescribed for majors. The majority of the units are common with the Master of Engineering Science (Civil) course (CE74).

Students may transfer from the Graduate Diploma in Municipal Engineering to the Master of Engineering Science (Civil) providing that they have obtained a grade point average of at least 5 after completion of at least 50% of the coursework of the graduate diploma.

**Note:** In so doing students must comply with rule 4.1.1 of the Student Rules which states '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'.



Students who do not wish to undertake a major must complete the core units plus any combination of units from the majors totalling at least 56 credit points. Programs should be devised in consultation with the course coordinator.

Graduates who have completed the prescribed units for a major will have their award certificates and academic transcripts endorsed "Majoring in..."

<b>Course Structure – All Majors</b>		<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
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**Year 1, Semester 1**

CEP128	Municipal Engineering Planning	12	3
CEP131	Engineering Management & Administration	12	3

**Year 1, Semester 2**

CEP200	Process Modelling	8	2
CEP361	Drainage Engineering	8	2
	One Unit from chosen major	8	2

**Year 2, Semester 1**

Units chosen from major	24	6
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**Year 2, Semester 2**

Units chosen from major	24	6
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**ENVIRONMENTAL ENGINEERING MAJOR (EVN)**

CEP172	Water Quality Engineering*	8	2
CEP174	Public Health Engineering Practice+	12	3
CEP276	Advanced Treatment Processes#	8	2
CEP277	Waste Management**	12	3
CEP290	Environmental Law & Assessment#	8	2
CHP691	Environmental Chemistry**	8	2

**LOCAL GOVERNMENT ENGINEERING MAJOR (LGN)**

CEP107	Construction Management & Economics+	8	2
CEP109	Municipal Law & Regulations#	8	2
CEP127	Road & Traffic Engineering+	12	3
CEP174	Public Health Engineering Practice+	12	3

Plus units totalling at least 16 credit points from any other major.++

**PUBLIC HEALTH ENGINEERING MAJOR (PHN)**

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

Plus units totalling at least 16 credit points from any other major.++

**TRANSPORTATION ENGINEERING MAJOR (TRN)**

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

Plus units totalling at least 16 credit points from any other major.++

\* Offered in even years, Semester 1.

+ Offered in odd years, Semester 1.

# Offered in odd years, Semester 2.

\*\* Offered in even years, Semester 2.

++ Includes CEP491 Municipal Engineering Practice (16 credit points and 4 contact hours) which is available in any semester.

## ■ 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:

- (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, and
- (iii) have a minimum of three years of relevant experience after graduation.

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

### BUILDING MAJOR

#### Full-Time Course Structure

		Credit Points	Contact Hrs/Wk
<b>Semester 1</b>			
CNP417	Design Management	6	2
CNP426/1	Project Development	6	2
CNP429/1	Cost Management & Economics	6	2
CNP430/1	Current Issues	9	3
CNP431/1	Project Management	6	2
CNP433/1	Project Management Law	6	2
CNP434	Time Management 1	6	2
<b>Semester 2</b>			
CNP414	Time Management 2	6	2
CNP426/2	Project Development	6	2
CNP429/2	Cost Management & Economics	6	2
CNP430/2	Current Issues	9	3
CNP431/2	Project Management	6	2
CNP433/2	Project Management Law	6	2
CNP437	Field Trip	12	5 days

#### Part-Time Course Structure

		Credit Points	Contact Hrs/Wk
<b>Year 1, Semester 1</b>			
CNP417	Design Management	6	2
CNP429/1	Cost Management & Economics	6	2
CNP431/1	Project Management	6	2
CNP434	Time Management 1	6	2
<b>Year 1, Semester 2</b>			
CNP414	Time Management 2	6	2
CNP429/2	Cost Management & Economics	6	2

CNP431/2	Project Management	6	2
CNP437	Field Trip	12	5 days

### Year 2, Semester 1

CNP426/1	Project Development	6	2
CNP430/1	Current Issues	9	3
CNP433/1	Project Management Law	6	2

### Year 2, Semester 2

CNP426/2	Project Development	6	2
CNP430/2	Current Issues	9	3
CNP433/2	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
CNP426/1	Project Development	6	2
CNP430/1	Current Issues	9	3
CNP431/1	Project Management	6	2
CNP433/1	Project Management Law	6	2
CNP438/1	Real Estate Investment Analysis	6	2
CNP439	Property Management	6	2

### Year 1, Semester 2

CNP426/2	Project Development	6	2
CNP430/2	Current Issues	9	3
CNP431/2	Project Management	6	2
CNP433/2	Project Management Law	6	2
CNP437	Field Trip	12	5 days
CNP438/2	Real Estate Investment Analysis	6	2
CNP667	Applied Computing	6	2

### Part-Time Course Structure

**Credit  
Points**      **Contact  
Hrs/Wk**

### Year 1, Semester 1

CNP426/1	Project Development	6	2
CNP431/1	Project Management	6	2
CNP438/1	Real Estate Investment Analysis	6	2

### Year 1, Semester 2

CNP426/2	Project Development	6	2
CNP431/2	Project Management	6	2
CNP437	Field Trip	12	5 days
CNP438/2	Real Estate Investment Analysis	6	2

### Year 2, Semester 1

CNP422	Specialist Valuation	6	2
CNP430/1	Current Issues	9	3
CNP433/1	Project Management Law	6	2

### Year 2, Semester 2

CNP430/2	Current Issues	9	3
CNP433/2	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:** To be advised

### Professional Recognition

Successful completion of the course leads to the award of Graduate Diploma in Surveying Practice, and licensing by the Surveyors Board of Queensland.

### Entry Requirements

#### NORMAL ENTRY

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

- (i) a Bachelor of Applied Science (Surveying) degree from the Queensland University of Technology; or
- (ii) a Bachelor of Surveying degree 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 Planning, Landscape Architecture and Surveying to be at least equivalent to QUT's Bachelor of Applied Science (Surveying) degree.

#### 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 units 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, 3.5 years part-time

**Total Credit Points:** 192

**Standard Credit Points/Full-Time Semester:** 48

**Course Coordinator:** Dr Brian Hudson

### Entry Requirements

To be eligible for admission, an applicant must:

- hold a degree or diploma from a recognised tertiary institution; or
- have attained professional recognition by an equivalent course of study or examination.

Graduates of the Bachelor of Built Environment (Urban and Regional Planning) shall be credited with Year 1 (full-time) or Years 1 and 2 (part-time) of the course (except for PLP560 History of Planning). Students from other backgrounds will be granted credit as appropriate to their education and experience.

Students who do not have basic graphics skills are required to attend a QUT graphics workshop/summer school before being permitted to enter the Graduate Diploma in Urban and Regional Planning program.

Full-Time Course Structure		Credit Points	Contact Hrs/Wk
<b>Year 1, Semester 1</b>			
COP115	Professional Communication	4	2
PLP550	Planning Processes	8	2
PLP553	Site Planning Methods	8	2
PLP554	Site Planning Practice & Law	12	4
PLP557	Transport Planning	8	2
PLP562	Economics of Town Planning	8	2
PLP564	Introduction to Maps & Air Photos	4	1
<b>Year 1, Semester 2</b>			
ISB183	Introduction to Computers in Planning	4	1
PLP558	Population & Urban Studies	8	3
PLP559	Environmental Impacts	4	2
PLP560	History of Planning	4	1
PLP561	Urban Design Methods	4	1
PLP565	Urban Land Development	4	1
PLP566	Housing & Community Services	8	2
PLP567	Urban Design Practice	12	3
<b>Year 2, Semester 1</b>			
PLP401	Rural Land Use & Planning	4	1
PLP404	Theories for Planning	8	2
PLP407	Urban Policy Processes	8	2
PLP411	Planning Practice & Law (Urban)	12	4
PLP413	Regional Planning Methods	4	1
PLP414	Resource Management	8	2
PLP418	Computer Applications in Planning	4	2
<b>Year 2, Semester 2</b>			
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	12	2
PLP416	Urban Policy Implementation	4	1
PLP420	School Field Trip	4	7-10 days

Part-Time Course Structure	Credit Points	Contact Hrs/Wk
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### Year 1, Semester 1

COP115	Professional Communication	4	2
PLP550	Planning Processes	8	2
PLP553	Site Planning Methods	8	2
PLP554	Site Planning Practice & Law	12	4

### Year 1, Semester 2

ISB183	Introduction to Computers in Planning	4	1
PLP558	Population & Urban Studies	8	3
PLP560	History of Planning	4	1
PLP561	Urban Design Methods	4	1
PLP567	Urban Design Practice	12	3

### Year 2, Semester 1

PLP404	Theories for Planning	8	2
PLP418	Computer Applications in Planning	4	2
PLP557	Transport Planning	8	2
PLP562	Economics of Town Planning	8	2
PLP564	Introduction to Maps & Air Photos	4	1

### Year 2, Semester 2

PLP402	Social Planning	4	1
PLP405	Procedural Planning Theory	4	1
PLP420	School Field Trip	4	
PLP559	Environmental Impacts	4	2
PLP565	Urban Land Development	4	1
PLP566	Housing and Community Services	8	2

### Year 3, Semester 1

PLP401	Rural Land Use & Planning	4	1
PLP407	Urban Policy Processes	8	2
PLP411	Planning Practice & Law (Urban)	12	4
PLP413	Regional Planning Methods	4	1

### Year 3, Semester 2

PLP406	Professional Procedures & Ethics	4	1
PLP412	Planning Practice & Law (Regional & Strategic)	12	4
PLP415	Research Methods & Individual Project*		
PLP416	Urban Policy Implementation	4	1

### Year 4, Semester 1

PLP414	Resource Management	8	2
PLP415	Research Methods & Individual Project	12	2

## ■ Graduate Diploma in Urban Design (PL69)

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

**Total Credit Points:** 96

**Standard Credit Points/Full-Time Semester:** 48

\* Students attend classes but do not enrol in this semester. Individual Project is prepared and submitted in the next semester.

**Course Coordinator:** Mr Danny O'Hare

## Entry Requirements

### NORMAL ENTRY

To be eligible for admission an applicant must hold 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.

### 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 Master of Built Environment (Urban Design). A grade point average of 5 or better in the course is normally required for progression to the masters level.

## Focus in the Graduate Diploma

The Graduate Diploma focuses on skills and knowledge development through set coursework and elective coursework.

### Full-Time Course Structure\*

		<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
<b>Year 1, Semester 1</b>			
IFN001	Advanced Information Retrieval Skills	4	1
PLN101	Urban Design Analysis Studio	12	3
PLN103	Urban Design Conjecture Studio	12	3
PLN105	Urban Design Field Studies	4	10 days
PLN114	Applied Research Techniques	4	1
PLN201	History of Urban Systems	4	1
PLN204	Urban Design Theory and Criticism	4	1
Plus a selection from the following totalling at least 4 credit points:			
CNP439	Property Management	6	2
PLN402	Law and Legislation in Urban Design	4	1
PLP216	Computer Aided Data Analysis	2	1
PLP511	Environmental Psychology	4	2

### Year 1, Semester 2

PLN102	Urban Design Context Studio	12	3
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Plus any of the following totalling at least 36 credit points:

PLN255	Concentration Studies A	4	1
PLN256	Concentration Studies B	8	2
PLN302	Urban Landscape	4	1
PLN304	Urban Services and Functions	4	1
PLN401	Computer Applications in Urban Design	4	1
PLP505	Conservation Theory	3	1
	Elective Unit/s		

### Part-Time Course Structure\*

		<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
<b>Year 1, Semester 1</b>			
IFN001	Advanced Information Retrieval Skills	4	1
PLN101	Urban Design Analysis Studio	12	3
PLN201	History of Urban Systems	4	1
PLN204	Urban Design Theory and Criticism	4	1

\* Students must complete a minimum of 48 credit points per semester in the full-time course and a minimum of 24 credit points per semester in the part-time course.

### Year 1, Semester 2

PLN102	Urban Design Context Studio	12	3
PLN105	Urban Design Field Studies	4	10 days
PLN114	Applied Research Techniques	4	1

Plus a selection from the following totalling at least 4 credit points:

PLN302	Urban Landscape	4	1
PLN304	Urban Services and Functions	4	1
PLN401	Computer Applications in Urban Design	4	1
PLP216	Computer Aided Data Analysis	2	1
PLP505	Conservation Theory	3	1

### Year 2, Semester 1

PLN103	Urban Design Conjecture Studio	12	3
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With a selection of the following totalling a minimum of 12 credit points:

CNP439	Property Management	6	2
PLN402	Law and Legislation in Urban Design	4	1
PLP216	Computer Aided Data Analysis	2	1
PLP511	Environmental Psychology	4	2

### Year 2, Semester 2

Any of the following totalling at least 24 credit points:

PLN255	Concentration Studies A	4	1
PLN256	Concentration Studies B	8	2
PLN302	Urban Landscape	4	1
PLN304	Urban Services and Functions	4	1
PLN401	Computer Applications in Urban Design	4	1
PLP505	Conservation Theory	3	1
Elective Unit/s			

## ■ Graduate Certificate in Architectural Practice (AR80)

**Location:** Gardens Point campus

**Course Duration:** 1 year part-time

**Total Credit Points:** 48

**Standard Credit Points/Part-Time Semester:** 24

**Course Coordinator:** Mr Dan Nutter

### Entry Requirements

An applicant must:

- hold a professional degree or professional diploma in architecture from a recognised University, College of Advanced Education, or approved equivalent tertiary institution; or
- have gained professional recognition in architecture or an allied profession by an equivalent course of study or examination.

Where an equivalent course of study or examination cannot be readily established an applicant, at the discretion of the Head of School, may be recommended for special entry. This type of entry may depend collectively on such factors as the applicant's qualifications, background, experience and current employment.



Course Structure		Credit Points	Contact Hrs/Wk
<b>Semester 1</b>			
ARP151	Architectural Practice	12	2
ARP153	Legal Studies in Architecture	12	2
<b>Semester 2</b>			
ARP152	Architectural Administration	12	2
ARP154	Architectural Cost Planning	12	2

**Note:** Each unit has a one-day workshop of six hours duration.

## ■ Graduate Certificate in Project Development (CN81)

With Specialisations in Construction Management, Property Development, Property Economics, and Project Management

**Location:** Gardens Point campus

**Course Duration:** 1 year part-time

**Total Credit Points:** 48

**Standard Credit Points/Part-Time Semester:** 24

**Course Coordinator:** Mr Andrew Leicester

### Entry Requirements

#### NORMAL ENTRY

An applicant must:

- (i) hold a relevant degree or diploma from a recognised University, College of Advanced Education or approved tertiary institution; or
- (ii) hold degree-equivalent professional qualifications.

#### SPECIAL ENTRY

An applicant must:

- (i) have extensive, relevant, professional experience as determined by the course coordinator;
- (ii) for the specialisations in Project Management and Property Development, have a minimum of three years relevant experience after graduation.

### Course Structure

No exemptions are permitted. If a unit has been studied previously then an alternative should be selected.

If students have opted for the specialisations in Project Management or Property Development, after the successful completion of one graduate certificate, they may complete a further 48 credit points in the same discipline with the guidance and approval of the course coordinator and be granted a graduate diploma in that discipline.

It should be noted that some units are available in concentrated format over a period of one, two or three days rather than in the standard format of two hours per week for one or two semesters. These will only be run if there is sufficient demand and will be self funding from fees charged.

## CONSTRUCTION MANAGEMENT SPECIALISATION

Students must complete a total of 48 credit points from the following units:

	<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
<b>Semester 1</b>		
CNB601 Formwork Design and Construction	4	2
CNP426/1 Project Development	6	2
CNP429/1 Cost Management and Economics	6	2
CNP431/1 Project Management	6	2
CNP433/1 Project Management Law	6	2
CNP434 Time Management 1	6	2
(Foreshadowed)		
Legal Studies	6	2
<b>Semester 2</b>		
CNP414 Time Management 2	6	2
CNP426/2 Project Development	6	2
CNP429/2 Cost Management and Economics	6	2
CNP431/2 Project Management	6	2
CNP433/2 Project Management Law	6	2
CNP667 Applied Computing	6	2
(Foreshadowed)		
Financial Management	6	2

## PROPERTY DEVELOPMENT SPECIALISATION

Students must complete a total of 48 credit points from the following units:

	<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
<b>Semester 1</b>		
CNP422 Specialist Valuations	6	2
CNP426/1 Project Development	6	2
CNP430/1 Current Issues	9	3
CNP431/1 Project Management	6	2
CNP433/1 Project Management Law	6	2
CNP438/1 Real Estate Investment Analysis	6	2
CNP439 Property Management	6	2
<b>Semester 2</b>		
CNP426/2 Project Development	6	2
CNP430/2 Current Issues	9	3
CNP431/2 Project Management	6	2
CNP433/2 Project Management Law	6	2
CNP437 Field Trip	12	5 days
CNP438/2 Real Estate Investment Analysis	6	2
CNP667 Applied Computing	6	2

## PROPERTY ECONOMICS SPECIALISATION

Students must complete a total of 48 credit points from the following units:

	<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
<b>Semester 1</b>		
CNP439 Property Management	6	2
CNP422 Specialist Valuations	6	2
CNP430/1 Current Issues	9	3
CNP426/1 Project Development	6	2
CNB668 Law 6 - Valuation of Land	4	2
CNP438/1 Real Estate Investment Analysis	6	2
CNP431/1 Project Management	6	2

## Semester 2

CNB626	Land Development Studies	4	2
CNB471	Law 7 - Property Practice	6	2.5
CNB472	Property Taxation Issues	7	2
CNP426/2	Project Development	6	2
CNP430/2	Current Issues	9	3
CNP431/2	Project Management	6	2
CNP438/2	Real Estate Investment Analysis	6	2
CNB564	Valuation 7	8	3
CNP667	Applied Computing	6	2

## PROJECT MANAGEMENT SPECIALISATION

Students must complete a total of 48 credit points from the following units:

		<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
<b>Semester 1</b>			
CNP417	Design Management	6	2
CNP426/1	Project Development	6	2
CNP429/1	Cost Management and Economics	6	2
CNP430/1	Current Issues	9	3
CNP431/1	Project Management	6	2
CNP433/1	Project Management Law	6	2
CNP434	Time Management 1	6	2

## Semester 2

CNP414	Time Management 2	6	2
CNP426/2	Project Development	6	2
CNP429/2	Cost Management and Economics	6	2
CNP430/2	Current Issues	9	3
CNP431/2	Project Management	6	2
CNP433/2	Project Management Law	6	2
CNP437	Field Trip	12	5 days
CNP667	Applied Computing	6	2

It should also be noted that a Graduate Certificate in Project Development with no specialisation can be taken by enrolling in 48 credit points from the following list:

		<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
<b>Semester 1</b>			
CNB601	Formwork Design and Construction	4	2
CNB668	Law 6 - Valuation of Land	4	2
CNP417	Design Management	6	2
CNP422	Specialist Valuations	6	2
CNP426/1	Project Development	6	2
CNP429/1	Cost Management and Economics	6	2
CNP430/1	Current Issues	9	3
CNP431/1	Project Management	6	2
CNP433/1	Project Management Law	6	2
CNP434	Time Management 1	6	2
CNP438/1	Real Estate Investment Analysis	6	2
CNP439	Property Management	6	2

## Semester 2

CNB471	Law 7 - Property Practice	6	2.5
CNB472	Property Taxation Issues	7	2
CNB564	Valuation 7	8	3
CNB626	Land Development Studies	4	2
CNP414	Time Management 2	6	2
CNP426/2	Project Development	6	2
CNP429/2	Cost Management and Economics	6	2

CNP430/2	Current Issues	9	3
CNP431	Project Management	6	2
CNP433/2	Project Management Law	6	2
CNP437	Field Trip	12	5 days
CNP438/2	Real Estate Investment Analysis	6	2
CNP667	Applied Computing	6	2

It is possible for other units to be taken with the prior approval of the course coordinator, in order that the specific needs of individual students are met.

## ■ **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 Coordinator:** To be advised

### **Majors Coordinators:**

Architectural Studies – Associate Professor Gordon Holden

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 presently undergoing accreditation 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

ARB102	History of the Built Environment 1	6	3
ARB140	Introductory Design 1	12	8
ARB141	The Human Environment 1	4	2
ARB142	Technology 1	8	4
BNB001	Learning at University	2	1
COB163	Professional Writing	6	1.5
MAB181	Applied Mathematics for Designers 1	6	3
PLB113	Environmental Science	4	2

### Year 1, Semester 2

ARB200	Introductory Design 2	20	10
ARB201	The Human Environment 2	6	2
ARB241	History of the Built Environment 2	8	3
ARB242	Technology 2	10	5
PLB209	Applied Land Science for Designers	4	1

### Year 2, Semester 1

ARB289	Design Science 1	2	1
ARB299	Introduction to Computing 1	2	1
ARB340	Architectural Design 1	18	8
ARB341	Building Construction 1	14	5
ARB343	Visual Communication for Architects 1	4	2
CEB359	Principles of Structures 1	2	1
PLB301	The Human Environment 3	6	3

### Year 2, Semester 2

ARB288	Design Science 2	2	1
ARB290	Introduction to Computing 2	2	1
ARB440	Architectural Design 2	16	6
ARB441	Building Construction 2	15	5
ARB443	Visual Communication for Architects 2	4	2
CEB459	Principles of Structures 2	4	2
PLB401	The Human Environment 4	4	2

### Year 3, Semester 1

ARB389	Design Science 3	4	2
ARB391	Building Services 1	4	1.5
ARB540	Architectural Design 3	20	7
ARB541	Building Construction 3	15	5.5
ARB544	Landscape Architecture in the Built Environment*	2	1
CEB559	Principles of Structures 3	3	2

\* Upon application students will be exempted from ARB544 if they have completed ARB444 Environmental Impact.

**Year 3, Semester 2**

ARB388	Design Science 4	2	1
ARB392	Building Services 2	3	1.5
ARB640	Architectural Design 4	20	7
ARB641	Building Construction 4	15	5.5
ARB646	Law of the Built Environment	4	2
CEB659	Principles of Structures 4	4	2

**INDUSTRIAL DESIGN MAJOR****Year 1, Semester 1**

ARB102	History of the Built Environment 1	6	3
ARB140	Introductory Design 1	12	8
ARB141	The Human Environment 1	4	2
ARB151	Introduction to Technology	2	1
BNB001	Learning at University	2	1
COB163	Professional Writing	6	1.5
MAB181	Applied Mathematics for Designers 1	6	3
PHB144	Applied Science for Designers 1	6	3
PLB113	Environmental Science	4	2

**Year 1, Semester 2**

ARB200	Introductory Design 2	20	10
ARB201	The Human Environment 2	6	2
ARB241	History of the Built Environment 2	8	3
ARB251	Ergonomics for Industrial Designers 1	4	2
CHB292	Applied Science for Designers 2	4	2
MAB196	Quantitative Methods 2	6	3

**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 Impact	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	6	3
ARB554	CAD for Industrial Designers 3	4	2
ARB555	Economics of Industrial Production	4	2
MEB012	Dynamics 2	4	2
MKB160	Marketing	6	1.5

**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**

ARB102	History of the Built Environment 1	6	3
ARB140	Introductory Design 1	12	8
ARB141	The Human Environment 1	4	2
ARB161	Light & Colour Studies	8	3
ARB171	Introduction to Interior Technology 1	6	2
BNB001	Learning at University	2	1
COB163	Professional Writing	6	1.5
PLB113	Environmental Science	4	2

## **Year 1, Semester 2**

ARB200	Introductory Design 2	20	10
ARB201	The Human Environment 2	6	2
ARB241	History of the Built Environment 2	8	3
ARB271	Introduction to Interior Technology 2	14	5

## **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 Impact	2	1
ARB460	Interior Design 2	16	6
ARB461	Interior Technology 2	14	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

## **Year 3, Semester 1**

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

## **Year 3, Semester 2**

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

# **LANDSCAPE ARCHITECTURE MAJOR**

## **Year 1, Semester 1**

BNB001	Learning at University	2	1
COB163	Professional Writing	6	1.5
MAB195	Quantitative Methods 1	6	3
PLB102	History of the Built Environment 1	6	3
PLB113	Environmental Science	4	2
PLB135	Map & Air Photo Interpretation	2	1
PLB140	Introductory Design 1	12	6
PLB141	The Human Environment 1	4	2
PHB144	Applied Science for Designers 1	6	3

## **Year 1, Semester 2**

CHB292	Applied Science for Designers 2	4	2
MAB196	Quantitative Methods 2	6	3

PLB200	Introductory Design 2	20	10
PLB201	The Human Environment 2	6	2
PLB209	Applied Land Science for Designers	4	1
PLB241	History of the Built Environment 2	8	3
<b>Year 2, Semester 1</b>			
PLB300	Planning & Landscape Design 1	21	9
PLB301	The Human Environment 3	6	3
PLB340	Site Measurement	4	1
PLB343	Introduction to the Professions	3	1
PLB345	Introduction to Ecology	8	4
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
<b>Year 3, Semester 2</b>			
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 Unit - Landscape Architecture	4	2
PLB659	Impacts & Assessment	5	2
<b>URBAN AND REGIONAL PLANNING MAJOR</b>			
<b>Year 1, Semester 1</b>			
BNB001	Learning at University	2	1
COB163	Professional Writing	6	1.5
MAB195	Quantitative Methods 1	6	3
PLB102	History of the Built Environment 1	6	3
PLB113	Environmental Science	4	2
PLB135	Map & Air Photo Interpretation	2	1
PLB140	Introductory Design 1	12	6
PLB141	The Human Environment 1	4	2
PHB144	Applied Science for Designers 1	6	3
<b>Year 1, Semester 2</b>			
CHB292	Applied Science for Designers 2	4	2
MAB196	Quantitative Methods 2	6	3
PLB200	Introductory Design 2	20	10
PLB201	The Human Environment 2	6	2
PLB209	Applied Land Science for Designers	4	1
PLB241	History of the Built Environment 2	8	3



### Year 2, Semester 1

PLB300	Planning & Landscape Design 1	21	9
PLB301	The Human Environment 3	6	3
PLB340	Site Measurement	4	1
PLB343	Introduction to the Professions	3	1
PLB345	Introduction to Ecology	8	4
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:** 287

**Standard Credit Points/Full-Time Semester:** 48

**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 two years of the part-time course a whole day release from employment is required.

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

Full-Time/Part-Time Course Structure		Credit Points	Contact Hrs/Wk
<b>Year 1, Semester 1</b>			
BNB001	Learning at University	2	1
CNB103	Material Science 1	4	2
CNB145	Structures 1	4	2
CNB151	Construction 1	12	6
CNB342	Law 2 - Principles & Property	3	1.5
COB163	Professional Writing	6	1.5
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
CNB146	Structures 2	4	2
CNB154	Construction 2	14	7
CNB343	Economics of the Construction Industry	4	2
CNB347	Hygiene & Sanitation	4	2
ISB180	Computer Applications	4	2
SVB203	Project Survey	4	2
<b>Year 2, Semester 1</b>			
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
CNB259	Structures 3	4	2
CNB403	Building Management 1	4	2
CNB440/1	Law 3 - Building Contracts	3	1
CNB442/1	Valuation & Dilapidations	4	2
CNB443	Building Services 3	5	2.5
CNB601	Formwork Design & Construction	4	2
<b>Year 2, Semester 2</b>			
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
CNB405	Project Equipment & Safety	4	2
CNB440/2	Law 3 - Building Contracts	3	1
CNB442/2	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 Unit*	4	
CNB501	Building Management 3	4	2
CNB527	PM2 - Quantitative Techniques	3	1.5
CNB540	Estimating 2	5	2.5
CNB545	PM3 - Construction Planning Techniques 1	7	3.5

### Year 3, Semester 2

CNB301	PM1 - Advanced Construction Methods	4	2
CNB502	Building Management 4	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 Unit*	4	
CNB603	Building Management 5	4	2
CNB623	PM6 - Building Development Techniques 1	4	2
CNB642	Applied Computer Techniques	6	3
CNB656/1	Building Research	8	4

### 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 Unit*	3	
CNB656/2	Building Research	10	5

### Part-Time Course Structure

**Credit Points**      **Contact Hrs/Wk**

#### Year 1, Semester 1

CNB103	Material Science 1	4	2
CNB145	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
CNB146	Structures 2	4	2
CNB154	Construction 2	14	7
COB163	Professional Writing	6	1.5

#### Year 2, Semester 1

CNB005	Measurement of Construction 1	6	3
CNB247	Material Science 3	4	2
CNB253	Construction 3	10	5
CNB259	Structures 3	4	2
ISB180	Computer Applications	4	2

\* Elective units may be taken from any other course offered by the University in consultation with the course coordinator.

**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
SSB908	Behavioural Science	6	3
SVB101	Surveying & Measuring	4	2

**Year 3, Semester 2**

CNB010	Measurement of Construction 4	4	2
CNB014	Building Services 2 - Electrical	4	2
CNB347	Hygiene & Sanitation	4	2
CNB405	Project Equipment & Safety	4	2
SVB203	Project Survey	4	2

**Year 4, Semester 1**

CNB403	Building Management 1	4	2
CNB440/1	Law 3 - Building Contracts	3	1
CNB442/1	Valuation & Dilapidations	4	2
CNB443	Building Services 3	5	2.5
CNB444	Mechanical & Electrical Estimating OR Elective Unit*	4	2
CNB601	Formwork Design & Construction	4	2

**Year 4, Semester 2**

CNB301	PM1 - Advanced Construction Methods	4	2
CNB343	Economics of the Construction Industry OR Elective Unit*	4	2
CNB404	Building Management 2	4	2
CNB440/2	Law 3 - Building Contracts	3	1
CNB442/2	Valuation & Dilapidations	2	1
CNB446	Estimating 1	5	2.5

**Year 5, Semester 1**

CEB701	Civil Engineering Quantities 1 OR Elective Unit*	4	2
CNB501	Building Management 3	4	2
CNB527	PM2 - Quantitative Techniques	3	1.5
CNB540	Estimating 2	5	2.5
CNB545	PM3 - Construction Planning Techniques 1	7	3.5

**Year 5, Semester 2**

CNB401	Building Economics & Cost Planning	4	2
CNB502	Building Management 4	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**

CNB603	Building Management 5	4	2
CNB623	PM6 - Building Development Techniques 1	4	2

\* Elective units may be taken from any other course offered by the University in consultation with the course coordinator.

CNB642	Applied Computer Techniques	6	3
CNB656/1	Building Research	8	4
<b>Year 6, Semester 2</b>			
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 Unit*	3	
CNB656/2	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:** 50

**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 licensing 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.

### Full-Time Course Structure

		<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	9	4
CNB342	Law 2 - Principles & Property	3	1.5
COB163	Professional Writing	6	1.5
MAB298	Mathematics & Statistics	4	2
PLB440	Introduction to Economics	2	1
PLB663	Urban Planning 1	4	2
SSB908	Behavioural Science	6	3
<b>Year 1, Semester 2</b>			
CNB162	Building Studies 2	9	3.5
CNB166	Urban Economics	4	2
CNB268	Valuation 2	8	3
CNB362	Property Agency	8	3
CNB565	Time Management	8	3

\* Elective units may be taken from any other course offered by the University in consultation with the course coordinator.

CNB643	Law 5 - Commercial Law	3	1.5
ISB180	Computer Applications	4	2
PLB441	Urban Planning 2	4	2

### **Year 2, Semester 1**

CNB261	Building Studies 3	8	3
CNB363	Valuation 3	8	3
CNB367	Real Estate Accounting 1	8	3
CNB465	Property Investment Analysis 1	8	3
CNB665	Property Management 1	8	3
CNB668	Law 6 - Valuation of Land	4	2
SVB101	Surveying & Measuring	4	2

### **Year 2, Semester 2**

CNB262	Building Studies 4	8	3
CNB364	Valuation 4	8	3
CNB368	Real Estate Accounting 2	8	3
CNB466	Property Investment Analysis 2	8	3
CNB567	Real Estate Market Analysis	4	2
CNB626	Land Development Studies	4	2
CNB666	Property Management 2	8	3

### **Year 3, Semester 1**

CNB464	Valuation 5 - Rural	8	3
CNB471	Law 7 - Property Practice Law	6	2.5
CNB561	Property Maintenance	8	3
CNB563	Statutory Valuation	8	3
CNB568	Real Estate Practice	5	2.5
CNB661	Research Dissertation 1	8	4
CNB663	Project Development Process 1	5	2

### **Year 3, Semester 2**

CNB470	Valuation 6 - Rural	8	3
CNB472	Property Taxation Issues	7	2
CNB543	Law 4 - Torts & Arbitration	3	1.5
CNB564	Valuation 7	8	3
CNB662	Research Dissertation 2	8	4
CNB664	Project Development Process 2	6	2
CNB667	Applied Computer Techniques	8	3

### **Part-Time Course Structure**

**Credit  
Points**      **Contact  
Hrs/Wk**

### **Year 1, Semester 1**

CNB161	Building Studies 1	14	5.5
MAB298	Mathematics & Statistics	4	2
PLB440	Introduction to Economics	2	1

### **Year 1, Semester 2**

CNB162	Building Studies 2	9	3.5
CNB166	Urban Economics	4	2
CNB565	Time Management	8	3
ISB180	Computer Applications	4	2

### **Year 2, Semester 1**

CNB261	Building Studies 3	8	3
CNB263	Valuation 1	9	4
CNB342	Law 2 - Principles & Property	3	1.5
COB163	Professional Writing	6	1.5

### Year 2, Semester 2

CNB262	Building Studies 4	8	3
CNB268	Valuation 2	8	3
CNB362	Property Agency	8	3
CNB626	Land Development Studies	4	2

### Year 3, Semester 1

CNB363	Valuation 3	8	3
CNB367	Real Estate Accounting 1	8	3
CNB668	Law 6 - Valuation of Land	4	2
PLB663	Urban Planning 1	4	2

### Year 3, Semester 2

CNB364	Valuation 4	8	3
CNB368	Real Estate Accounting 2	8	3
CNB643	Law 5 - Commercial Law	3	1.5
PLB441	Urban Planning 2	4	2

### Year 4, Semester 1

CNB464	Valuation 5 - Rural	8	3
CNB465	Property Investment Analysis 1	8	3
SSB908	Behavioural Science	6	3
SVB101	Surveying & Measuring	4	2

### Year 4, Semester 2

CNB466	Property Investment Analysis 2	8	3
CNB470	Valuation 6 - Rural	8	3
CNB472	Property Taxation Issues	7	2
CNB543	Law 4 - Torts & Arbitrations	3	1.5

### Year 5, Semester 1

CNB561	Property Maintenance	8	3
CNB563	Statutory Valuation	8	3
CNB568	Real Estate Practice	5	2.5

### Year 5, Semester 2

CNB564	Valuation 7	8	3
CNB567	Real Estate Market Analysis	4	2
CNB667	Applied Computer Techniques	8	3

### Year 6, Semester 1

CNB471	Law 7 - Property Practice Law	6	2.5
CNB661	Research Dissertation 1	8	4
CNB663	Project Development Process 1	5	2
CNB665	Property Management 1	8	3

### Year 6, Semester 2

CNB662	Research Dissertation 2	8	4
CNB664	Project Development Process 2	6	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:** 286

**Standard Credit Points/Full-Time Semester:** 48

**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 year 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 two years of the part-time course a whole day release from employment is required.

Units 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>			
BNB001	Learning at University	2	1
CNB103	Material Science 1	4	2
CNB145	Structures 1	4	2
CNB151	Construction 1	12	6
CNB342	Law 2 - Principles & Property	3	1.5
CNB442/1	Valuation & Dilapidations	4	2
CNB501	Building Management 3	4	2
COB163	Professional Writing	6	1.5
MAB297	Mathematics for Construction	4	2
SVB101	Surveying & Measuring	4	2
<b>Year 1, Semester 2</b>			
CNB104	Material Science 2	4	2
CNB131	Measurement of Construction 1A	6	3
CNB146	Structures 2	4	2
CNB154	Construction 2	14	7
CNB343	Economics of the Construction Industry	4	2
CNB347	Hygiene & Sanitation	4	2
CNB442/2	Valuation & Dilapidations	2	1
ISB180	Computer Applications	4	2
<b>Year 2, Semester 1</b>			
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
CNB259	Structures 3	4	2
CNB403	Building Management 1	4	2
CNB440/1	Law 3 - Building Contracts	3	1
CNB443	Building Services 3	5	2.5
CNB527	PM2 - Quantitative Techniques	3	1.5



### 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
CNB440/2	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 Unit*	3	

### Year 3, Semester 1

CNB341	Building & Civil Engineering Construction	4	2
CNB444	Mechanical & Electrical Estimating	4	2
	OR		
	Elective Unit*	4	
CNB451	Computer Software Applications 1	4	2
CNB461	Measurement of Construction 5	3	1.5
CNB540	Estimating 2	5	2.5
CNB545	PM3 - Construction Planning Techniques 1	7	3.5

### Year 3, Semester 2

CNB301	PM1 - Advanced Construction Methods	4	2
CNB462	Measurement of Construction 6	3	1.5
CNB502	Building Management 4	4	2
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

CNB603	Building Management 5	4	2
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
CNB656/1	Building Research	8	4

### Year 4, Semester 2

CEB901	Civil Engineering Quantities 2	4	2
CNB452	Computer Software Applications 2	4	2
CNB624	PM7 - Building Development Techniques 2	4	2
CNB648	Cost Planning & Cost Control 2	4	2
CNB656/2	Building Research	10	5

### Part-Time Course Structure

**Credit Points**      **Contact Hrs/Wk**

#### Year 1, Semester 1

CNB103	Material Science 1	4	2
CNB145	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
CNB146	Structures 2	4	2

\* Elective units may be taken from any other course offered by the University in consultation with the course coordinator.

CNB154	Construction 2	14	7
COB163	Professional Writing	6	1.5
<b>Year 2, Semester 1</b>			
CNB005	Measurement of Construction 1	6	3
CNB247	Material Science 3	4	2
CNB253	Construction 3	10	5
CNB259	Structures 3	4	2
ISB180	Computer Applications	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
<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
CNB442/1	Valuation & Dilapidations	4	2
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
CNB343	Economics of the Construction Industry	4	2
	OR		
	Elective Unit*	4	
CNB347	Hygiene & Sanitation	4	2
CNB442/2	Valuation & Dilapidations	2	1
CNB520	Specification	3	1.5
<b>Year 4, Semester 1</b>			
CEB701	Civil Engineering Quantities 1	4	2
CNB403	Building Management 1	4	2
CNB440/1	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
<b>Year 4, Semester 2</b>			
CEB901	Civil Engineering Quantities 2	4	2
CNB301	PM1 - Advanced Construction Methods	4	2
CNB404	Building Management 2	4	2
CNB440/2	Law 3 - Building Contracts	3	1
CNB446	Estimating 1	5	2.5
CNB462	Measurement of Construction 6	3	1.5
<b>Year 5, Semester 1</b>			
CNB444	Mechanical & Electrical Estimating	4	2
	OR		
	Elective Unit*	4	
CNB501	Building Management 3	4	2
CNB527	PM2 - Quantitative Techniques	3	1.5
CNB540	Estimating 2	5	2.5
CNB545	PM3 - Construction Planning Techniques 1	7	3.5

\* Elective units may be taken from any other course offered by the University in consultation with the course coordinator.

### Year 5, Semester 2

CNB502	Building Management 4	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	3	1.5
	OR		
	Elective Unit*	3	

### Year 6, Semester 1

CNB603	Building Management 5	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
CNB656/1	Building Research	8	4

### 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	4	2
CNB656/2	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:** Associate Professor Gordon Holden

### Professional Recognition

On completion of the course and one years 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.

### 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. Students **must enrol** in approved employment units in the semester (or summer school period) in which they expect to finalise the specific approved employment unit involved, so that they can be credited with a result for the unit. All necessary documentation must be forwarded to the course coordinator in time for the unit to be finalised by the end of the semester in which the student is enrolled.

\* Elective units may be taken from any other course offered by the University in consultation with the course coordinator.

- (ii) A student who is admitted with advanced standing and who is granted exemption from all units in the first three years of the course may be granted exemption from the unit 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	8	5
ARB195	Technology 1	4	2.5
ARB197	History of Architecture & Art 1	2	1
COB163	Professional Writing	6	1.5
<b>Year 1, Semester 2</b>			
ARB132	The Human Environment 2	4	2
ARB194	Design 2	14	7
ARB196	Technology 2	4	2
ARB198	History of Architecture & Art 2	2	1
<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
ARB299	Introduction to Computing 1	2	1
CEB359	Principles of Structures 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
CEB459	Principles of Structures 2	4	2
<b>Year 3, Semester 1</b>			
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
ARB544	Landscape Architecture in the Built Environment	2	1
CEB559	Principles of Structures 3	3	2
<b>Year 3, Semester 2</b>			
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
ARB646	Law of the Built Environment	4	2
CEB659	Principles of Structures 4	4	2
<b>Year 4, Semester 1</b>			
ARB491/1	History of Architecture & Art 3	2	1
ARB493/1	Design 7	10	5
ARB495/1	Professional Studies 1	8	4
ARB497/1	Advanced Technology	4	2
<b>Year 4, Semester 2</b>			
ARB491/2	History of Architecture & Art 3	2	1
ARB493/2	Design 7	10	5

ARB495/2	Professional Studies 1	8	4
ARB497/2	Advanced Technology	4	2

### Year 5, Semester 1

ARB591/1	History of Architecture & Art 4	2	1
ARB593/1	Design 8	10	5
ARB595/1	Professional Studies 2	8	4
ARB590	Elective 1A	4	2

### Year 5, Semester 2

ARB591/2	History of Architecture & Art 4	2	1
ARB593/2	Design 8	10	5
ARB595/2	Professional Studies 2	8	4
ARB598	Elective 1B	4	2

### Year 6, Semester 1

ARB693	Design 9	16	5
ARB695/1	Professional Studies 3	4	2
ARB697/1	Elective 2	4	2

### Year 6, Semester 2

ARB695/2	Professional Studies 3	4	2
ARB697/2	Elective 2	20	5

### Approved Employment Units

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

## ■ 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:** To be advised

### Professional Recognition

This degree meets the educational requirements for registration and licensing by the Surveyors Board of Queensland and also satisfies 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 first enrol in the industrial experience unit in the semester in which the unit is expected to be finalised, then submit details of the work experience on an industrial experience record form or in diaries which are 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 Surveyors Board. Students may be required to attend camps off-campus and/or practical sessions in the Moreton region.

### Full-Time Course Structure

**Credit  
Points**      **Contact  
Hrs/Wk**

#### Year 1, Semester 1

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
SVB352/1	Land Studies A	6	3

#### Year 1, Semester 2

MAB495	Survey Mathematics 2	12	6
MAB499	Basic Statistics for Surveyors	5	2
SVB211	Data Presentation 2	6	3
SVB226	Land Surveying 2	13	6
SVB270	Land Administration 1	6	3
SVB352/2	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

#### Year 2, Semester 2

CEB364	Engineering Science 2	6	3
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
SVB683/1	Project	4	1

#### Year 3, Semester 2

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

SVB683/2	Project	4	1
	Two Elective Units	10	6
<b>CARTOGRAPHY MAJOR</b>			
<b>Year 2, Semester 1</b>			
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
<b>Year 2, Semester 2</b>			
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
<b>Year 3, Semester 1</b>			
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
SVB685/1	Project	8	4
<b>Year 3, Semester 2</b>			
SVB639	Observations & Adjustments 3	4	2
SVB664	Land Development Practice 2	10	6
SVB680	Professional Practice	6	3
SVB682	Seminar 2	2	1
SVB685/2	Project	8	4
	Two Elective Units	10	6
<b>Elective Units</b>			
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
<b>Industrial Experience Units</b>			
SVB199	Industrial Experience 1		6 weeks
SVB299	Industrial Experience 2		6 weeks
SVB399	Industrial Experience 3		6 weeks

## ☐ Special notes relating to Bachelor of Engineering courses

### Course Progression

It is important that students follow as normal a progression through their courses as possible. Units should be taken in an orderly sequence as set out in published course structures. Units failed, should be picked up in the next semester that they are offered. In order to maintain orderly progression through a course, a prerequisite requirement **may** be waived, if a student has attempted but not passed the prerequisite. This is considered

to be a major concession. Students who have failed units or have doubts about having the necessary background to proceed, should seek the advice of the course coordinator.

### Field Trips

Field trips or field projects in Engineering courses have a compulsory attendance requirement.

### Industrial Experience

A student shall have engaged in at least 15 weeks of approved employment prior to graduating. 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 five weeks of any employment is suitable for credit towards Industrial Experience 1. Five weeks of employment in any engineering firm may be credited towards Industrial Experience 2, whilst the requirement for Industrial Experience 3 is that five weeks of employment must be obtained in the specialty engineering area being studied ie. civil, electrical or mechanical engineering.

Students **must enrol** in industrial experience units so that when completed they can be credited to their academic record. **THE ENROLMENT MUST BE IN THE SEMESTER IN WHICH STUDENTS EXPECT TO SUBMIT AN INDUSTRIAL EXPERIENCE RECORD FORM** which will fulfil the minimum requirement of five weeks for the unit.

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 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:** To be advised.

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)
COB163	Professional Writing	6	1.5
CSB191	Introduction to Computing	4	2

\* See Special Notes relating to Bachelor of Engineering courses.

+ Students who have not successfully completed CEB184 or CEB185 may enrol in the equivalent units 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 by those students not obtaining a 'Sound Achievement' in Year 12 Chemistry. All other students must apply for an exemption from this unit.



EEB101	Circuits & Measurements	7	3
MAB187	Engineering Mathematics 1A	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
EEB371	Electronic Devices	5	3
MAB188	Engineering Mathematics 1B	6	3
MEB111	Dynamics	7	3
MEB133	Materials 1	6	3
PHB232	Engineering Physics 2	6	3

### Year 2, Semester 1

CSB490	Software Engineering	6	3
EEB303	Network Theory 1	8	3
EEB373	Digital Electronics Principles	6	3
EEB471	Electronics	8	3
EEB561	Analogue Communications	6	3
MAB493/1	Engineering Mathematics 2	6	3
MEB362	Thermo-Fluids	7	3

### Year 2, Semester 2

EEB361	Signals & Systems	7	3
EEB401	Network Theory 2	6	3
EEB430	Engineering Fields	6	3
EEB473	Integrated Circuits	6	3
EEB474	Microprocessors	6	3
EEB520	Control Engineering	6	3
MAB493/2	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

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
EEB784/1	Aerospace Project	12	6
EEB947	Radar & Radio Navigational Aids	6	3
MEB790	Spacecraft & Satellite Design	6	3

SVB645	Remote Sensing	5	3
	One Elective Unit	7	3

### **Year 4, Semester 2**

EEB601	Real-Time Operating Systems	6	3
EEB784/2	Aerospace Project	15	6
EEB880	Aerospace Design 4	7	3
MEB740	Maintenance Management & Technology	6	3
	Two Elective Units	14	6

### **Elective Units**

EEB932	Automatic Flight Control	7	3
EEB933	Combat Systems	7	3
EEB934	Advanced Communications & Navigation Systems	7	3
EEB935	Advanced Satellite Systems	7	3
EEB980	Aerospace Law	7	3
FNB116	Financial Management for Engineers	8	2
HRB111	Industrial Management	6	3
MEB774	Operations Management	7	3
	Any approved unit offered for EE44		
	BEng(Electrical & Computer Engineering)	7	3

### **Industrial Experience Units\***

EEB107	Aeronautical Industrial Experience 1	2 weeks
EEB206	Industrial Experience 1	5 weeks
EEB407	Aeronautical Industrial Experience 2	5 weeks
EEB607	Aeronautical Industrial Experience 3	5 weeks

## **■ 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**

This degree meets the requirements for membership of the Institution of Engineers, Australia.

### **Environmental Engineering Stream**

Students may elect to enter the environmental stream of this course at the end of Year 2 full-time or at the end of Semester 1 in Year 4 part-time. This will involve the taking of two alternative core units and four prescribed elective units, in addition to some environmentally based topics in design units and project. Special conditions apply to students wishing to return to the main course from the environmental engineering stream.

\* See Special Notes relating to Bachelor of Engineering courses.

**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)
COB163	Professional Writing	6	1.5
CSB191	Introduction to Computing	4	2
EEB101	Circuits & Measurements	7	3
MAB187	Engineering Mathematics 1A	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
CHB346	Engineering Chemistry C	4	2
CSB291	Introduction to FORTRAN	4	2
MAB188	Engineering Mathematics 1B	6	3
MEB111	Dynamics	7	3
MEB133	Materials 1	6	3
PHB232	Engineering Physics 2A	6	3
SVB306	Surveying	8	3

**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
MAB493/1	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
CEB312	Highway Engineering	6	3
CEB360	Hydraulic Engineering 1	6	3
CEB393	Engineering Investigation & Reporting 1	3	2
CEB404	Field Trip	3	1.5
MAB493/2	Engineering Mathematics 2	6	3

**Year 3, Semester 1**

CEB241	Soil Mechanics 2	7	3
CEB304/1	Civil Engineering Design 1	8	4
CEB306	Concrete Structures 2	7	3
	OR		
CEB375	Environmental Science & Technology**	7	3
CEB307	Construction Practice	6	3

\* Students who have not successfully completed CEB184 or CEB185 may enrol in the equivalent units 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. All other students must apply for an exemption from this unit.

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

\*\* Alternative unit compulsory for the Environmental Engineering Stream.

**BUILT  
ENVIRONMENT  
& ENGINEERING**

CEB354	Structural Engineering 2	7	3
CEB460	Hydraulic Engineering 2	7	3
MAB893	Engineering Mathematics 3	6	3

### Year 3, Semester 2

CEB304/2	Civil Engineering Design 1	8	4
CEB305	Construction Planning & Economics 1	6	3
CEB308	Construction Planning & Economics 2	4	2
CEB313	Traffic Engineering	6	3
CEB341	Geotechnical Engineering 1	6	3
CEB355	Structural Engineering 3	6	3
	OR		
CHB466	Environmental Chemistry*	6	3
CEB361	Hydrology	6	3
CEB370	Public Health Engineering 1	6	3

### Year 4, Semester 1

CEB405/1	Civil Engineering Design 2	6	3
CEB406	Structural Applications	6	3
CEB422	Civil Systems 2	5	2
CEB430	Building Construction	2	1
CEB470	Public Health Engineering 2	5	3
CEB491/1	Project (Civil)	9	3
CEB492	Engineering Investigation and Reporting 2	3	1
	Two Elective Units	12	6
	OR		
CEB543	Environmental Geohydrology*		
	AND	6	3
CEB561	Coastal Engineering*	6	3

### Year 4, Semester 2

CEB401	Design Project	8	3
CEB403	Professional Practice	7	2
CEB405/2	Civil Engineering Design 2	6	3
CEB491/2	Project (Civil)	9	3
	Three Elective Units	18	9
	OR		
	One Elective Unit AND		
CEB575	Environmental Impact Assessment*		
	AND	6	3
CEB570	Public Health Engineering 3*	6	3

### Elective Units

#### 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
CEB543	Environmental Geohydrology*	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
CEB575	Environmental Impact Assessment*	6	3

\* Alternative unit compulsory for the Environmental Engineering Stream.

**NOTE:** Student's elective programs are subject to approval by the Head of School.

### Industrial Experience Units\*

CEB192	Industrial Experience 1	5 weeks
CEB292	Industrial Experience 2	5 weeks
CEB392	Industrial Experience 3	5 weeks

### Part-Time Course Structure

**Credit  
Points**      **Contact  
Hrs/Wk**

#### Year 1, Semester 1

CEB102	Civil Engineering 1	2	1
CEB184	Engineering Mechanics 1+	7	3
CHB002	Introduction to Engineering Chemistry#	(2)	(1)
MAB187	Engineering Mathematics 1A	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
MAB188	Engineering Mathematics 1B	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
COB163	Professional Writing	6	1.5
CSB191	Introduction to Computing	4	2
MAB493/1	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
MAB493/2	Engineering Mathematics 2	6	3
SVB306	Surveying	8	3

#### 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
CEB305	Construction Planning & Economics 1	6	3
CEB360	Hydraulic Engineering 1	6	3
CHB346	Engineering Chemistry C	4	2

\* See Special Notes relating to Bachelor of Engineering courses.

+ Students who have not successfully completed CEB184 or CEB185 may enrol in the equivalent units 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 Grade 12 Chemistry. All other students must apply for an exemption from this unit.

**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
	OR		
CHB491	Environmental Chemistry*	6	3
CEB361	Hydrology	6	3
CEB370	Public Health Engineering 1	6	3

**Year 5, Semester 1**

CEB304/1	Civil Engineering Design 1	8	4
CEB306	Concrete Structures 2	7	3
	OR		
CEB375	Environmental Science & Technology	7	3
CEB313	Traffic Engineering	6	3
CEB393	Engineering Investigation & Reporting 1	3	2
CEB470	Public Health Engineering 2	5	3
CEB492	Engineering Investigation & Reporting 2	3	1

**Year 5, Semester 2**

CEB304/2	Civil Engineering Design 1	8	4
CEB308	Construction Planning and Economics 2	4	2
CEB406	Structural Applications	6	3
CEB422	Civil Systems 2	5	2
CEB430	Building Construction	2	1
	One Elective Unit	6	3

**Year 6, Semester 1**

CEB401	Design Project	8	3
CEB405/1	Civil Engineering Design 2	6	3
CEB491/1	Project (Civil)	9	3
	Two Elective Units	12	6
	OR		
CEB543	Environmental Geohydrology*		
	AND	6	3
CEB561	Coastal Engineering*	6	3

**Year 6, Semester 2**

CEB403	Professional Practice	7	2
CEB405/2	Civil Engineering Design 2	6	3
CEB491/2	Project (Civil)	9	3
	Two Elective Units	12	6
	OR		
CEB570	Public Health Engineering 3*		
	AND	6	3
CEB575	Environmental Impact Assessment*	6	3

**Elective Units**

Refer to Full-Time Structure.

**Industrial Experience Units**

Refer to Full-Time Structure.

\* Alternative unit compulsory for the Environmental Engineering Stream.

# **■ 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:** To be advised.

## **Professional Recognition**

This degree meets the requirements for membership of the Institution of Engineers, Australia and of the Institution of Radio and Electronics Engineers.

**BUILT  
ENVIRONMENT  
& ENGINEERING**

## **Full-Time Course Structure**

		<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
<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)
COB163	Professional Writing	6	1.5
CSB191	Introduction to Computing	4	2
EEB101	Circuits & Measurements	7	3
MAB187	Engineering Mathematics 1A	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>			
CSB291	Introduction to FORTRAN	4	2
EEB202	Electromagnetics	6	3
EEB203	Circuit Analysis	5	3
EEB272	Digital Principles	3	1.5
EEB371	Electronic Devices	5	3
MAB188	Engineering Mathematics 1B	6	3
MEB111	Dynamics	7	3
MEB133	Materials 1	6	3
PHB232	Engineering Physics 2A	6	3
<b>Year 2, Semester 1</b>			
CSB490	Software Engineering	6	3
EEB302	Electrotechnology	6	3
EEB303	Network Theory 1	8	3
EEB372	Sequential Logic	7	3
EEB471	Electronics	8	3
EEB561	Analogue Communications	6	3
MAB493/1	Engineering Mathematics 2	6	3

\* See Special Notes relating to Bachelor of Engineering courses.

+ Students who have not successfully completed CEB184 may enrol in the equivalent unit CEB001 Engineering Mechanics A 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. All other students must apply for an exemption from this unit.

**Year 2, Semester 2**

EEB361	Signals & Systems	7	3
EEB400	Electrical Power Systems	6	3
EEB401	Network Theory 2	6	3
EEB430	Engineering Fields	6	3
EEB473	Integrated Circuits	6	3
EEB474	Microprocessors	6	3
EEB520	Control Engineering	6	3
MAB493/2	Engineering Mathematics 2	6	3

**Year 3, Semester 1**

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
EEB661	Information Theory & Noise	6	3
	OR		
EEB553	Electrical Power Equipment	6	3
MAB893	Engineering Mathematics 3	6	3

**Year 3, Semester 2**

EEB601	Realtime Operating Systems	6	3
EEB602	Signal Processing	6	3
EEB621	Advanced Control Systems	6	3
EEB788	Design 2	8	3
EEB967	Digital Communications	6	3
EEB971	Applied Electronics	6	3
	OR		
EEB531	Electrical Power Transmission	6	3
MAB894	Engineering Mathematics 4	6	3
	One General Elective Unit	4	2

**Year 4, Semester 1**

EEB662	Microwave & Antenna Technology	7	3
	OR		
EEB652	Power Electronics	7	3
EEB789/1	Project	15	6
EEB821	Production Technology & Quality	6	3
EEB887	Design 3	6	3
EEB968	Digital Signal Processing	7	3
	OR		
EEB742	Power Systems Engineering	7	3
	One Technical Elective Unit	7	3

**Year 4, Semester 2**

EEB789/2	Project	15	6
EEB820	Engineering Management	8	3
EEB888	Design 4	10	3
EEB890	Advanced Information Technology Topics	8	3
	OR		
EEB741	Power Systems Analysis	8	3
	One Technical Elective Unit	7	3

**General Elective Units**

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 Elective Units

EEB761	Statistical Communications	7	3
EEB841	Mining Electrotechnology	7	3
EEB922	Computer Controlled Systems	7	3
EEB951	High Voltage Equipment	7	3
EEB954	Electrical Energy Utilisation	7	3
EEB955	Power Electronics Applications	7	3
EEB956	Photovoltaic Engineering	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

OR

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

### Industrial Experience Units\*

EEB206	Industrial Experience 1	5 weeks
EEB406	Industrial Experience 2	5 weeks
EEB606	Industrial Experience 3	5 weeks

### Part-Time Course Structure

**Credit  
Points**      **Contact  
Hrs/Wk**

#### Year 1, Semester 1

CHB002	Introduction to Engineering Chemistry+	(2)	(1)
CSB191	Introduction to Computing	4	2
EEB101	Circuits & Measurements	7	3
MAB187	Engineering Mathematics 1A	6	3
MEB121	Engineering Graphics	6	3
PHB132	Engineering Physics 1A	6	3

#### Year 1, Semester 2

CSB291	Introduction to FORTRAN	4	2
EEB203	Circuit Analysis	5	3
EEB272	Digital Principles	3	1.5
EEB371	Electronic Devices	5	3
MAB188	Engineering Mathematics 1B	6	3
PHB232	Engineering Physics 2A	6	3

#### Year 2, Semester 1

COB163	Professional Writing	6	1.5
EEB303	Network Theory 1	8	3
EEB471	Electronics	8	3
EEB561	Analogue Communications	6	3
MAB493/1	Engineering Mathematics 2	6	3

#### Year 2, Semester 2

EEB202	Electromagnetics	6	3
EEB361	Signals & Systems	7	3
EEB401	Network Theory 2	6	3
MAB493/2	Engineering Mathematics 2	6	3
MEB133	Materials I	6	3

\* See special notes relating to Bachelor of Engineering courses.

+ CHB002 Introduction to Engineering Chemistry is to be taken only by those students not obtaining a 'Sound Achievement' in Year 12 Chemistry. All other students must apply for an exemption from this unit.

**Year 3, Semester 1**

CEB102	Civil Engineering 1	2	1
CEB184	Engineering Mechanics 1*	7	3
EEB302	Electrotechnology	6	3
EEB372	Sequential Logic	7	3
MAB893	Engineering Mathematics 3	6	3

**Year 3, Semester 2**

EEB400	Electrical Power Systems	6	3
EEB473	Integrated Circuits	6	3
EEB474	Microprocessors	6	3
EEB520	Control Engineering	6	3
MAB894	Engineering Mathematics 4	6	3

**Year 4, Semester 1**

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

**Year 4, Semester 2**

EEB430	Engineering Fields	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
MEB111	Dynamics	7	3

**Year 5, Semester 1**

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
	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 Unit	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 Unit	7	3

**Year 6, Semester 2**

EEB789	Project+	15	6
EEB888	Design 4	10	3

\* Students who have not successfully completed CEB184 may enrol in the equivalent unit CEB001 Engineering Mechanics A which will be offered during the summer vacation.

+ Unit extends over two semesters.

EEB890	Advanced Information Technology Topics OR	8	3
EEB741	Power Systems Analysis One Technical Elective Unit	8 7	3 3

### Elective Units

Refer to the full-time course structure.

### Industrial Experience Units

Refer to the 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 Doug Hargreaves

### Professional Recognition

This degree is recognised for the purpose of 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)
COB163	Professional Writing	6	1.5
CSB191	Introduction to Computing	4	2
EEB101	Circuits & Measurement	7	3
MAB187	Engineering Mathematics 1A	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
CHB344	Engineering Chemistry M	4	2
CSB291	Introduction to FORTRAN	4	2
EEB202	Electromagnetics	6	3
MAB188	Engineering Mathematics 1B	6	3
MEB101	Design 1	8	3
MEB111	Dynamics	7	3
MEB133	Materials 1	6	3

\* See Special Notes relating to Bachelor of Engineering courses.

+ Students who have not successfully completed CEB184 or CEB185 may enrol in the equivalent units 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. All other students must apply for an exemption in this unit.

**Year 2, Semester 1**

EEB209	Electrical Engineering 2M	6	3
MAB493/1	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**

MAB493/2	Engineering Mathematics 2	6	3
MEB231	Materials 3	6	3
MEB251	Thermodynamics 2	6	3
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 Unit	4	2

**Year 3, Semester 1**

MAB893	Engineering Mathematics 3	6	3
MEB502	Research Methods	8	4
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 Unit	7	3

**Year 3, Semester 2**

EEB273	Microcomputers in Engineering	4	2
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 Unit	7	3

**Year 4, Semester 1**

FNB116	Financial Management for Engineers	6	3
MEB464	Fluids 3	7	3
MEB489/1	Mechanical Design Project*	7	3
MEB710	Automation 2	6	3
MEB771	Industrial Engineering 2	6	3
MEB911	Finite Element Analysis	7	3
	One Group D Elective Unit	7	3

**Year 4, Semester 2**

HRB111	Industrial Management	8	2
MEB408	Project 1	14	6
MEB489/2	Mechanical Design Project*	7	3
MEB772	Engineering Project Appraisal	6	3
MEB981	Design of Materials Handling Systems	6	3
	One Group E Elective Unit	7	3

\* All students must complete MEB489 and MEB408 (or MEB409).

## Elective Units

<b>GROUP A</b>			
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
<b>GROUP B</b>			
MEB450	Air Conditioning	7	3
MEB500	Special Topic 1	7	3
MEB531	Advanced Materials	7	3
<b>GROUP C</b>			
MEB601	Special Topic 2	7	3
MEB680	Advanced Mechanical Design	7	3
MEB950	Process Plant Design	7	3
MEB976	Computer Integrated Manufacturing	7	3
<b>GROUP D</b>			
MEB701	Special Topic 3	7	3
MEB977	Computer Control of Manufacturing Systems	7	3
MEB980	Design of Power Transmission Systems	7	3
<b>GROUP E</b>			
MEB800	Special Topic 4	7	3
MEB810	Industrial Noise & Vibration	7	3
MEB960	Fluid Systems Design	7	3
MEB975	Design of Manufacturing Systems	7	3

## Industrial Experience Units\*

MEB200	Industrial Experience 1	5 weeks
MEB300	Industrial Experience 2	5 weeks
MEB402	Industrial Experience 3	5 weeks

## Part-Time Course Structure

		<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
<b>Year 1, Semester 1</b>			
CEB184	Engineering Mechanics 1+	7	3
CHB002	Introduction to Engineering Chemistry#	(2)	(1)
COB163	Professional Writing	6	1.5
MAB187	Engineering Mathematics 1A	6	3
MEB121	Engineering Graphics	6	3
PHB132	Engineering Physics 1A	6	3
<b>Year 1, Semester 2</b>			
CEB185	Engineering Mechanics 2+	7	3
CHB344	Engineering Chemistry M	4	2
MAB188	Engineering Mathematics 1B	6	3
MEB111	Dynamics	7	3
MEB133	Materials 1	6	3
<b>Year 2, Semester 1</b>			
CEB102	Civil Engineering 1	2	1
CSB191	Introduction to Computing	4	2
EEB101	Circuits & Measurements	7	3
MAB493/1	Engineering Mathematics 2	6	3

\* See Special Notes relating to Bachelor of Engineering courses.

+ Students who have not successfully completed CEB184 or CEB185 may enrol in the equivalent units 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. All other students should apply for an exemption in this unit.

MEB171	Introduction to Manufacturing	2	1
MEB230	Materials 2	6	3
<b>Year 2, Semester 2</b>			
CSB291	Introduction to FORTRAN	4	2
EEB202	Electromagnetics	6	3
EEB273	Microcomputers in Engineering	4	2
MAB493/2	Engineering Mathematics 2	6	3
MEB101	Design 1	8	3
	One Group A Elective Unit	4	2
<b>Year 3, Semester 1</b>			
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
<b>Year 3, Semester 2</b>			
MEB231	Materials 3	6	3
MEB251	Thermodynamics 2	6	3
MEB411	Theory of Machines	7	3
MEB462	Fluids 2	6	3
MEB463	Tribology	6	3
<b>Year 4, Semester 1</b>			
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
<b>Year 4, Semester 2</b>			
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
<b>Year 5, Semester 1</b>			
FNB116	Financial Management for Engineers	8	2
MEB464	Fluids 3	7	3
MEB510	Noise & Vibrations	7	3
MEB911	Finite Element Analysis	7	3
	One Group B Elective Unit	7	3
<b>Year 5, Semester 2</b>			
MEB502	Research Methods	8	4
MEB650	Thermodynamics 3	6	3
MEB660	Fluid Power	6	3
MEB981	Design of Materials Handling Systems	6	3
	One Group C Elective Unit	7	3
<b>Year 6, Semester 1</b>			
MEB409	Project 2*+	7	3
MEB489	Mechanical Design Project*+	7	3
MEB710	Automation 2	6	3
MEB771	Industrial Engineering 2	6	3
	One Group D Elective Unit	7	3

\* Unit extends over two semesters.

+ All students must complete MEB489 and MEB408 (or MEB409).

## Year 6, Semester 2

HRB111	Industrial Management	8	2
MEB409	Project 2*+	7	3
MEB489	Mechanical Design Project*+	7	3
MEB772	Engineering Project Appraisal	6	3
	One Group E Elective Unit	7	3

### Elective Units

Refer to the full-time course structure.

### Industrial Experience Units

Refer to the full-time course structure.

## ■ Bachelor of Technology (Mechanical) (ME35) – Conversion Program

**Location:** Gardens Point campus

**Course Duration:** 3 years part-time

**Total Credit Points:** 127

**Course Coordinator:** Dr Andy Tan

### Entry Requirements

Applicants require an Associate Diploma in Mechanical or Manufacturing Engineering or a Bachelor of Science degree in a relevant discipline. Applicants holding an Associate Diploma in other engineering disciplines will also be considered. Such candidates may be required to complete additional units.

Course Structure		Credit Points	Contact Hrs/Wk
<b>Year 1, Semester 1</b>			
MAB185	Introduction to Statistics	8	3
MEB230	Materials 2	6	3
MEB313	Mechanics 1	6	3
MAB183	Mathematics 1#	(8)	(3)
<b>Year 1, Semester 2</b>			
MEB101	Design 1	8	3
MAB184	Mathematics 2*	(8)	(3)
MEB251	Thermodynamics 2	6	3
MEB462	Fluids 2	6	3
<b>Year 2, Semester 1</b>			
HRB148	Managing People at Work (not offered until 1994)	8	2
MEB773	Design for Manufacturing 1	7	3
MEB674	Industrial Engineering	8	3

\* All students must complete MEB489 and MEB408 (or MEB409).

+ Unit extends over two semesters.

# Students who do not have the equivalent of MAB183 Mathematics 1 and MAB184 Mathematics 2 are required to enrol in these additional units.

**Year 2, Semester 2**

HRB149	Human Resources and Industrial Relations (not offered until 1994)	8	2
MAB186	Mathematics 3	8	3
MEB472	Manufacturing Systems 2	6	3

**Year 3, Semester 1**

MEB463	Tribology	6	3
MEB501/1	Project	8	3
	One Group A Elective Unit	Credit points will vary	

**Year 3, Semester 2**

MEB740	Maintenance Management and Technology	6	3
MEB501/2	Project	8	3
	One Group B Elective Unit	Credit points will vary	

**Elective Units****GROUP A**

MEB450	Air Conditioning	7	3
MEB660	Fluid Power	6	3
MEB973	Plastics Technology	7	3

**GROUP B**

MEB550	Heat Transfer	6	3
MEB612	Mechanical Measurements	8	3
MEB976	Computer Integrated Manufacturing	7	3

**■ 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:** To be advised**Professional Recognition**

The course is recognised for Associate Membership of the Australian Institute of Cartographers.

**Course Structure**

Credit Points	Contact Hrs/Wk
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**Year 3, Semester 1**

SVT343	Photogrammetry 2	8	3
SVT511	CAD Systems	8	3
SVT513	Digital Mapping	8	3

**Year 3, Semester 2**

COX107	Seminar	4	1.5
SVT623	Project Mapping	4	1.5
SVT642	Map Projections 1	8	3
SVT443	Photogrammetry 3	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)

**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 Frank Bullen

### Professional Recognition

This course is recognised for Associate Membership of the Institution of Engineers, Australia, membership of the Society of Engineering Associates and of the Institute for Drafting and Design, Australia.

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

### Full-Time Course Structure

		<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
<b>GENERAL MAJOR (GEN)</b>			
<b>Year 1, Semester 1</b>			
CET120	Civil Systems 1	7	3
CET135	Engineering Mechanics	7	3
CET180	Civil Drafting Practice A	3	3
CET195	Civil Engineering	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
<b>Year 2, Semester 1</b>			
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 List B1 Elective Unit	7	3
	One List B2 Elective Unit	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 List B1 Elective Units	14	6
	Two List B2 Elective Units	14	6

Generally a full-time student will gain 24 credit points by successfully completing eight practical experience units designated by the suffix 'A' after the unit name, and a part-time student will gain 24 credit points for successfully completing 120 weeks of approved industrial employment. However a combination of practical experience units and industrial employment totalling 24 credit points will be accepted. Industrial employment units 4 to 8 must involve the student in civil engineering work. Forms for obtaining credit for industrial employment are available from the Faculty office. Students must enrol in the industrial employment unit(s) in the semester in which they expect to submit their completed form for obtaining credit. 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, ie. 15 weeks for each of the eight industrial employment units, before being eligible for the Associate Diploma award. For the employment to be recognised, students must enrol in the industrial employment unit(s) then submit an industrial experience record form which has been completed by both the student and the employer.

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

		<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
<b>Year 1, Semester 1</b>			
CET135	Engineering Mechanics	7	3
CET195	Civil Engineering	7	3
MET120	Engineering Drawing 1	7	3
<b>Year 1, Semester 2</b>			
CET190	Civil Engineering Materials	7	3
CET255	Structural Mechanics	7	3
CET286	Civil Office Practice	7	3
<b>Year 2, Semester 1</b>			
CET120	Civil Systems 1	7	3
CET815	Road Location & Design	7	3
SVT306	Engineering Surveying	7	3
<b>Year 2, Semester 2</b>			
CET365	Hydraulic Engineering	7	3
CET435	Concrete Practice	7	3
CET645	Soil Mechanics	7	3

### Year 3, Semester 1

CET565	Road & Drainage Engineering	7	3
CET585	Civil Engineering Drafting	7	3
CET775	Public Health Engineering	7	3

### Year 3, Semester 2

CET708	Specifications & Estimates	7	3
CET756	Building Construction Practice	7	3
	One List B1 Elective Unit	7	3

### Year 4, Semester 1

CET704	Civil Construction Practice	7	3
	One List B1 Elective Unit	7	3
	One List B2 Elective Unit	7	3

### Year 4, Semester 2

	One List B1 Elective Unit	7	3
	Two List B2 Elective Units	14	6

### COURSE ELECTIVE UNITS

#### LIST A – All Elective Units in the Course

CET420	Civil Systems 2	7	3
CET606	Construction Management (Evening)	7	3
CET655	Concrete and Steel Design (Day & Evening)	7	3
CET703	Civil Engineering Practice 1 (not 1993)	7	3
CET707	Municipal Engineering (Evening)	7	3
CET735	Advanced Laboratory Testing 1	7	3
CET787	Structural Engineering Drawing (Day)	7	3
CET797	Project 1	7	3
CET802	Civil Engineering Practice 2 (not 1993)	7	3
CET838	Advanced Laboratory Testing 2	7	3
CET856	Advanced Construction Techniques	7	3
CET887	Computer Aided Drafting (Day & Evening)	7	3
CET888	Structural Drawing & Design (Day)	7	3
CHA145	Introductory Chemistry (Evening)	8	3
EST219	Engineering Geology	7	3
HRX111	Safety and Industrial Relations (Evening)	7	2
MET140	Engineering Materials 1	8	3

#### LIST B1 Elective Units

##### FIRST SEMESTER

CET606	Construction Management (Evening)	7	3
CET655	Concrete and Steel Design (Day)	7	3
CET887	Computer Aided Drafting (Evening)	7	3
EST219	Engineering Geology	7	3

##### SECOND SEMESTER

CET655	Concrete and Steel Design (Evening)	7	3
CET787	Structural Engineering Drawing (Day)	7	3
CET887	Computer Aided Drafting (Day & Evening)	7	3
HRX111	Safety and Industrial Relations (Evening)	7	2

#### List B2 Elective Units

##### FIRST SEMESTER

CET703	Civil Engineering Practice 1 (not 1993)	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
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CET797	Project 1	7	3
CET802	Civil Engineering Practice 2 (not 1993)	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 from other modes or strands of this course or from other QUT courses may be approved by the course coordinator as alternatives to the listed elective units. The number of elective units available is dependent upon a sufficient number of students being enrolled.

Degree level units may be selected as electives with the approval of the course coordinator.

## **WATER AND WASTEWATER PROCESS OPERATION MAJOR**

(Semesters 1 to 4 are common to the General Major.)

### **Year 3, Semester 1**

CET565	Road & Drainage Engineering	7	3
CET585	Civil Engineering Drafting	7	3
CET775	Public Health Engineering	7	3
	OR		
CET598	Project 2	21	9

### **Year 3, Semester 2**

CET776	Equipment Operation and Maintenance	7	3
CHA145	Introductory Chemistry	8	3
CHA644	Process Measurement and Monitoring 1	7	3

### **Year 4, Semester 1**

CET606	Construction Management	7	3
CET777	Process Operation & Control 1	7	3
CHA744	Process Measurement and Monitoring 2	7	3

### **Year 4, Semester 2**

CET876	Plant Operation and Maintenance	7	3
CET877	Process Operation and Control 2	7	3
CHA844	Trade Waste Control	7	3

### **Industrial Employment Units (Part-Time only)**

BNT100	Industrial Employment 1	3	15 weeks
BNT200	Industrial Employment 2	3	15 weeks
BNT300	Industrial Employment 3	3	15 weeks
BNT400	Industrial Employment 4	3	15 weeks
BNT500	Industrial Employment 5	3	15 weeks
BNT600	Industrial Employment 6	3	15 weeks
BNT700	Industrial Employment 7	3	15 weeks
BNT800	Industrial Employment 8	3	15 weeks

## **■ Associate Diploma in Electrical Engineering (EE22)**

**Course Discontinued:** No further intakes

**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:** To be advised.

### Professional Recognition

This course is recognised for associate membership of the Institution of Engineers, Australia, membership of the Society of Engineering Associates and of the Institute for Drafting and Design, Australia.

**Course options:** 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	(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
<b>Full-Time/Part-Time Course Structure</b>			<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
<b>Year 1 no longer offered</b>				
<b>Year 2, Semester 1</b>				
EET570	Electronics 2		7	3
	Major 1	(a)	7	3
	Major 2	(a)	7	3
<b>Year 2, Semester 2</b>				
MET600	Materials for Electrical Engineers		4	1.5
MET601	Mechanical Plant		3	1.5
	Major 1	(b)	7	3
	Major 2	(b)	7	3
<b>Year 3, Semester 1</b>				
	One Elective Unit		7	3
	Major 1	(c)	7	3
	Major 2	(c)	7	3
<b>Year 3, Semester 2</b>				
EET880	Design		7	3
	Major 1	(d)	7	3
	Major 2	(d)	7	3

### Industrial Employment Units

BNT500	Industrial Employment 5	3	15 weeks
BNT600	Industrial Employment 6	3	15 weeks
BNT700	Industrial Employment 7	3	15 weeks
BNT800	Industrial Employment 8	3	15 weeks

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 units, before being eligible for the Associate Diploma award. An industrial experience record form, as for part-time students, must be submitted. Students must enrol in the industrial employment units in the semester in which they expect to submit their completed form for obtaining credit.

### 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 units, before being eligible for the Associate Diploma award. For the employment to be recognised, students must enrol in the industrial employment units, then submit an industrial experience record form, which has been completed by both the student and the employer. However, a combination of practical experience units and industrial experience totalling 24 credit points will be accepted. Forms are available from the Faculty office.

		Credit Points	Contact Hrs/Wk
<b>Year 2, Semester 1</b>			
CST390	Computer Programming 1	7	3
EET350	Electrical Engineering 3	7	3
EET676	Digital Electronics	7	3
<b>Year 2, Semester 2</b>			
EET420	Control Systems 1	7	3
EET460	Telecommunications	7	3
EET490	Computer Packages	7	3
<b>Year 3, Semester 1</b>			
EET570	Electronics 2	7	3
	Major 1 (a)	7	3
	Major 2 (a)	7	3
<b>Year 3, Semester 2</b>			
MET600	Materials for Electrical Engineers	4	1.5
MET601	Mechanical Plant	3	1.5
	Major 1 (b)	7	3
	Major 2 (b)	7	3
<b>Year 4, Semester 1</b>			
	One Elective Unit	7	3
	Major 1 (c)	7	3
	Major 2 (c)	7	3
<b>Year 4, Semester 2</b>			
EET880	Design	7	3
	Major 1 (d)	7	3
	Major 2 (d)	7	3
<b>Industrial Employment Units</b>			
BNT100	Industrial Employment 1	3	15 weeks
BNT200	Industrial Employment 2	3	15 weeks

BNT300	Industrial Employment 3	3	15 weeks
BNT400	Industrial Employment 4	3	15 weeks
BNT500	Industrial Employment 5	3	15 weeks
BNT600	Industrial Employment 6	3	15 weeks
BNT700	Industrial Employment 7	3	15 weeks
BNT800	Industrial Employment 8	3	15 weeks

**Note:**

1. Majors 1 and 2 refer to units taken from two of the four modules, viz., Computer Systems, Industrial Systems, Power or Telecommunications; (a), (b), (c) and (d) refer to units within each module.

2. For the elective, a unit may be chosen from any other module which runs in the same semester. Degree level units may be selected as elective units with the approval of the course coordinator.

3. A student who has completed the following trade courses in Queensland may apply to be exempted from the following units. 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 unit, 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)

**Course Discontinued:** No further intakes

**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 Jack Laracy

### Professional Recognition

This course is recognised for associate membership of the Institution of Engineers, Australia, membership of the Society of Engineering Associates and of the Institute for Drafting and Design, Australia.

Full-Time Course Structure		Credit Points	Contact Hrs/Wk
<b>Year 2, Semester 1</b>			
EET500	Electrical Technology	6	3
MET250	Thermodynamics	6	3
MET320	Engineering Drawing 3	6	3
MET572	Production Planning & Control	6	3
MET580	Machine Elements I	6	3
MET920	Computer Aided Design & Drafting	6	3
MET933	Industrial Tribology	6	3
	One Elective Unit	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 Unit	7	3

## Elective Units

### FIRST SEMESTER

EEB101	Circuits & Measurements*	7	3
MAB187	Engineering Mathematics 1A*	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
MAB188	Engineering Mathematics 1B*	6	3
MEB111	Dynamics*	7	3
MET352	Air Conditioning & Refrigeration	7	3
MET680	Machine Elements 2	7	3
MET960	Fluid Power	7	3

## Industrial Experience

An industrial experience record form must be submitted. Forms for obtaining credit for industrial employment are available from the Faculty office. Students must enrol in the industrial employment unit in the semester in which they expect to submit their completed form for obtaining credit.

### Note:

1. From time to time a series of special elective units 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 units (\*) may be selected as elective units 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 units designated by the suffix 'A' after the unit 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 units 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 units. 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.

\* Degree level units may be selected as elective units with the approval of the Head of the School.



## 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 units, before being eligible for the Associate Diploma award. For the employment to be recognised, students must enrol in the industrial employment units and then submit an industrial experience record form, which has been completed by both the student and the employer. Forms are available from the Faculty office.

		<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
<b>Year 2, Semester 1</b>			
MET320	Engineering Drawing 3	6	3
MET560	Thermofluids	8	3
MET940	Mechanical Measurements	8	3
<b>Year 2, Semester 2</b>			
CSA165	Computing	7	3
MET170	Manufacturing Technology	8	3
MET420	Engineering Drawing 4	7	3
<b>Year 3, Semester 1</b>			
EET500	Electrical Technology	6	3
MET250	Thermodynamics	6	3
MET580	Machine Elements 1	6	3
<b>Year 3, Semester 2</b>			
MET573	CAD/CAM Technology	7	3
MET920	Computer Aided Design & Drafting	6	3
MET961	Fluid Mechanics	7	3
<b>Year 4, Semester 1</b>			
MET572	Production Planning & Control	6	3
MET933	Industrial Tribology	6	3
	One Elective Unit	6	3
<b>Year 4, Semester 2</b>			
MET350	Process Engineering	7	3
MET971	Industrial Practice	7	3
	One Elective Unit	7	3

## Elective Units

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

## Industrial Employment Units

BNT100	Industrial Employment 1	3	15 weeks
BNT200	Industrial Employment 2	3	15 weeks
BNT300	Industrial Employment 3	3	15 weeks
BNT400	Industrial Employment 4	3	15 weeks
BNT500	Industrial Employment 5	3	15 weeks
BNT600	Industrial Employment 6	3	15 weeks
BNT700	Industrial Employment 7	3	15 weeks
BNT800	Industrial Employment 8	3	15 weeks



# **FACULTY OF BUSINESS**

**BUSINESS**

# Courses

■ Master of Business in the fields of Accounting, Managerial Accounting and Finance and Accounting Legal Studies (BS87) .....	301
■ Master of Business in the fields of Communication Management, Journalism and Media Studies (BS84).....	303
■ Master of Business in the fields of Economics, Human Resource Management, Industrial Relations, International Business Management and Public Policy (BS83) .....	305
■ Master of Business (Marketing) (BS85).....	312
■ Master of Business Administration (BS81) .....	314
■ Master of Quality (BS86) .....	319
□ Graduate Diploma in Business Administration .....	320
■ Graduate Diploma in Advanced Accounting (BS70) .....	320
■ Graduate Diploma in Business (Administration) (BS78) .....	322
■ Graduate Diploma in Communication (BS72).....	327
■ Graduate Diploma in Business (Industrial Relations) (BS74) .....	332
■ Graduate Diploma in Quality (BS77).....	333
■ Bachelor of Business (Honours) (Accountancy) (BS60) .....	334
■ Bachelor of Business (Honours) (Communication) (BS61).....	334
■ Bachelor of Business (Honours) (Management) (BS62) .....	336
■ Special requirements for the Bachelor of Business degree course in the Faculty of Business .....	340
■ Bachelor of Business (BS50) .....	340
□ Accountancy Major .....	341
□ Advertising Major.....	345
□ Banking and Finance Major .....	347
□ Economics Major.....	349
□ Film and Television Production Major .....	352
□ Human Resource Management Major .....	354
□ Industrial Relations Major .....	356
□ International Business Major .....	358
□ Journalism Major.....	362
□ Management Major .....	364
□ Marketing Major .....	366
□ Organisational Communication Major .....	368
□ Organisational Studies Major.....	370
□ Public Administration Major .....	372
□ Public Relations Major .....	374
■ Associate Diploma in Business (Industrial Relations) (BS10) .....	383

# FACULTY OF BUSINESS

## Course Structures

### ■ Master of Business (BS87)

In the fields of: Accounting, Managerial Accounting and Finance, Accounting Legal Studies

**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 John Polichronis

**Course Content:** 14 units and a dissertation/research project

#### Entry Requirements

Applicants for admission to candidature for a degree of masters:

- (i) (a) shall hold a Bachelor of Business – Accountancy or Bachelor of Business - Banking and Finance degree from 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
- (b) shall hold, from another tertiary institution or from QUT, qualifications approved by the Accounting Board of Studies, 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
- (ii) shall normally have had at least two years of appropriate work experience.

#### Course Requirements

Students are required to complete satisfactorily 14 units and a dissertation/research project equivalent to two units.

In selecting units, students may choose from three areas of specialisation – Accounting, Managerial Accounting and Finance, and Accounting Legal Studies (see Lists 1, 2 and 3 respectively in the schedule of postgraduate units). The 14 units must include: AYN102 Accounting Research or BSN141 Applied Research Methods. A maximum of two general elective units may be drawn from any postgraduate units offered within QUT or elsewhere, subject to the approval of the course coordinator.

#### Dissertation/Research Project

Students are required to do either BSN100 Dissertation, or BSN142 Research Project. Students must complete AYN102 Accounting Research as a prerequisite to enrol in BSN100 Dissertation, or BSN141 Applied Research Methods as a prerequisite to BSN142 Research Project. Please note that BSN142 Research Project is incompatible with BSN100 Dissertation. The dissertation should reflect the application of theoretical analysis or problem-solving in Accounting, Managerial Accounting and Finance, or

Accounting Legal Studies. The research project should reflect the application of knowledge gained in the masters degree to the resolution of a contemporary business problem in the area of Public Accounting, Managerial Accounting and Finance, or Accounting Legal Studies. Students are advised to seek a topic, and to approach a supervisor, early in their program.

<b>Schedule of Postgraduate Units</b>		<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
<b>Core</b>			
AYN102	Accounting Research	12	3
	OR		
BSN141	Applied Research Methods	12	3
BSN100	Dissertation	24	6
	OR		
BSN142	Research Project	24	6

### **List 1**

#### **ACCOUNTING**

AYN103	Advanced Company Accounting	12	3
AYN104	Audit Sampling	12	3
AYN106	Auditing Honours	12	3
AYN107	Auditing Standards & Practice	12	3
AYN109	Computer Auditing	12	3
AYN111	External Reporting Issues	12	3
AYN115	Financial Accounting Honours	12	3
AYN117	Financial Reporting	12	3
AYN118	Internal Auditing	12	3
AYN119	International Accounting	12	3
AYN300	Accounting 1 (PY)	12	3
AYN301	Auditing (PY)	12	3
AYN302	Special Topic - Public Accounting	12	3

### **List 2**

#### **MANAGERIAL ACCOUNTING/FINANCE**

FNN100	Advanced Capital Budgeting	12	3
FNN101	Finance Honours	12	3
FNN103	Financial Modelling	12	3
FNN104	Financial Risk Management	12	3
FNN105	International Finance	12	3
FNN106	Managerial Accounting Honours	12	3
FNN110	Managerial Accounting Issues A Accounting/Finance	12	3
FNN111	Managerial Accounting Issues B	12	3
FNN112	Special Topic – Managerial	12	3
FNN300	Accounting 2 (PY)	12	3
FNN301	Management Accounting (PY)	12	3

### **List 3**

#### **ACCOUNTING LEGAL STUDIES**

ALN101	Advanced Tax Planning	12	3
ALN102	Advanced Taxation	12	3
ALN104	Commercial Law Honours	12	3
ALN105	Indirect Taxation	12	3
ALN106	International Taxation	12	3
ALN107	Liquidations & Receiverships	12	3
ALN109	Special Topic – Commercial Law	12	3
ALN110	Taxation Policy Honours	12	3
ALN300	Insolvency & Reconstruction (PY)	12	3
ALN301	Taxation 1 (PY)	12	3
ALN302	Taxation 2 (PY)	12	3

Professional Year (PY) units 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 units, but should note that abnormal timetables apply. Credit cannot be gained for both a PY unit and its equivalent unit.

The dissertation/research project proposal must be presented at a seminar to Faculty staff in the semester prior to enrolling in the dissertation/research project.

### Program

Formal hours in all coursework units will be approximately three hours per week (Credit Points = 12). The dissertation/research project will be regarded as the equivalent of six formal hours per week (Credit Points = 24).

For further information regarding postgraduate Accountancy courses students are advised to request a copy of the *1993 Guide to Postgraduate Studies in Accountancy*.

## ■ Master of Business (BS84)

In the fields of: Communication Management, Journalism and Media Studies

**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:** Associate Professor Philip Neilsen

### Entry Requirements

Applicants for admission to candidature for the Master of Communication degree shall hold a Bachelor of Business degree with a Communication major from QUT, or a comparable degree from another tertiary institution, having achieved a level of attainment considered by the Faculty of Business Academic Board as acceptable for progression to a degree of master.

The Master of Communication normally requires two years full-time study or four years part-time study. However, graduates possessing a Bachelor of Business (Honours) in a relevant discipline area from the communication field of study or an approved equivalent Honours qualification will receive credit for the first year full-time or the first two years part-time of the normal masters program as set out below.

**Note:** The required dissertation length is 12,000 to 15,000 words. The required thesis length is 30,000 words.

### Full-Time Course Structure

		Credit Points	Contact Hrs/Wk
<b>Year 1, Semester 1 (ALL MAJORS)</b>			
BSP102	Communication Seminar	12	3
COP106	Communication Theory 1	12	3
MJP101	Communication Theory 2	12	3
MJP102	Communication Policy Environment	12	3
	OR		
COP108	Communication Technologies & Society	12	3
	OR		
	A unit approved by the course coordinator	12	3
<b>Year 1, Semester 2</b>			
BSP100	Dissertation	48	

**Year 2, Semester 1 (COMMUNICATION MANAGEMENT)**

BSP101	Advanced Communication Seminar	12	3
CON101	Communication Strategies	12	3
CON102	Advanced Organisational Communication	12	3
CON103	Advanced Communication Management	12	3

**Year 2, Semester 2**

BSN116	Thesis	48	
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**Year 2, Semester 1 (JOURNALISM)**

MJN105	Comparative Journalism	12	3
MJN106	Journalistic Freedom & Responsibility	12	3
MJN107	News Media & International Conflict	12	3
BSP101	Advanced Communication Seminar	12	3

**Year 2, Semester 2**

BSN116	Thesis	48	
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**Year 2, Semester 1 (MEDIA STUDIES)**

BSP101	Advanced Communication Seminar	12	3
MJN100	Advanced Media Theory	12	3
MJN101	Advanced Media Analysis	12	3
MJN103	Australian Media Contexts	12	3

**Year 2, Semester 2**

BSN116	Thesis	48	
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**Part-Time Course Structure****Credit  
Points****Contact  
Hrs/Wk****Year 1, Semester 1 (ALL MAJORS)**

COP106	Communication Theory 1	12	3
MJP101	Communication Theory 2	12	3

**Year 1, Semester 2**

BSP102	Communication Seminar	12	3
BSP104	Dissertation Part 1	12	

**Year 2, Semester 1**

BSP105	Dissertation Part 2	12	
COP108	Communication Technologies & Society	12	3
	OR		
MJP102	Communication Policy Environment	12	3
	OR		
	Unit approved by the course coordinator	12	3

**Year 2, Semester 2**

BSP106	Dissertation Part 3	24	
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**Year 3, Semester 1 (COMMUNICATION MANAGEMENT)**

CON101	Communication Strategies	12	3
CON102	Advanced Organisational Communication	12	3

**Year 3, Semester 2**

BSN803	Thesis Part 1	12	
BSP101	Advanced Communication Seminar	12	3

**Year 4, Semester 1**

BSN804	Thesis Part 2	12	
CON103	Advanced Communication Management	12	3



**Year 4, Semester 2**

BSN805	Thesis Part 3	24	
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**Year 3, Semester 1 (JOURNALISM)**

MJN105	Comparative Journalism	12	3
MJN106	Journalistic Freedom & Responsibility	12	3

**Year 3, Semester 2**

BSN803	Thesis Part 1	12	
BSP101	Advanced Communication Seminar	12	3

**Year 4, Semester 1**

BSN804	Thesis Part 2	12	
MJN107	News Media & International Conflict	12	3

**Year 4, Semester 2**

BSN805	Thesis Part 3	24	
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**Year 3, Semester 1 (MEDIA STUDIES)**

MJN100	Advanced Media Theory	12	3
MJN101	Advanced Media Analysis OR	12	3
MJN103	Australian Media Contexts	12	3

**Year 3, Semester 2**

BSN803	Thesis Part 1	12	
BSP101	Advanced Communication Seminar	12	3

**Year 4, Semester 1**

BSN804	Thesis Part 2	12	
MJN101	Advanced Media Analysis OR	12	3
MJN103	Australian Media Contexts	12	3

**Year 4, Semester 2**

BSN805	Thesis Part 3	24	
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**Note:** The required dissertation length is 12000 to 15000 words. The required thesis length is 30,000 words.

**■ Master of Business (BS83)**

In the fields of: Economics, Human Resource Management, Industrial Relations, International Business, Management and Public Policy.

**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 Barry Smith

**Entry Requirements**

Applicants for admission to candidature for the Master of Business shall:

- hold an approved Business or other degree which includes a major in the area of intended masters level study, and a grade point average of 5 or better in units studied

in the three years of undergraduate study. Greater weight may be given to performance in advanced level units;

- (ii) should preferably have appropriate work experience, which might include voluntary work, employment in the home, and part-time work.

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

Candidates who have completed an appropriate BBus(Hons) or equivalent program may be admitted to the MBus with advanced standing such that they will normally be required to complete a further 96 credit points of thesis work.

### Course Requirements

Students must complete three prescribed units (36 credit points), one elective unit (12 credit points), and a thesis (144 credit points).

#### ECONOMICS MAJOR

##### Full-Time Course Structure

		Credit Points	Contact Hrs/Wk
<b>Year 1, Semester 1</b>			
BSB400	Research Methodology	12	3
BSN144/1	Thesis	12	3
EPN108	Developments in Microeconomic Theories	12	3
EPN111	Contemporary Macroeconomic Theories	12	3

##### Year 1, Semester 2

BSN144			
/2/3/4	Thesis	36	
	Elective Unit	12	

##### Year 2, Semester 1

BSN145			
/1/2/3/4	Thesis	48	

##### Year 2, Semester 2

BSN145			
/5/6/7/8	Thesis	48	

##### Part-Time Course Structure

		Credit Points	Contact Hrs/Wk
<b>Year 1, Semester 1</b>			
BSB400	Research Methodology	12	3
EPN111	Contemporary Macroeconomic Theories*	12	3
<b>Year 1, Semester 2</b>			
EPN108	Developments in Microeconomic Theories*	12	3
	Elective Unit	12	3
<b>Year 2, Semester 1</b>			
BSN144/1/2	Thesis	24	
<b>Year 2, Semester 2</b>			
BSN144/3/4	Thesis	24	
<b>Year 3, Semester 1</b>			
BSN145/1/2	Thesis	24	

\* Semesters of these units may be changed.

**Year 3, Semester 2**

BSN145/3/4 Thesis 24

**Year 4, Semester 1**BSN145  
/5/6 Thesis 24**Year 4, Semester 2**BSN145  
/7/8 Thesis 24**HUMAN RESOURCE MANAGEMENT MAJOR****Full-Time Course Structure****Credit  
Points****Contact  
Hrs/Wk****Year 1, Semester 1**

BSB400	Research Methodology	12	3
BSN144/1	Thesis	12	
HRN115	Contemporary Issues in HRM	12	3
HRN116	HRM Cases	12	3

**Year 1, Semester 2**BSN144  
/2/3/4 Thesis 36  
Elective Unit 12**Year 2, Semester 1**BSN145  
/1/2/3/4 Thesis 48**Year 2, Semester 2**BSN145  
/5/6/7/8 Thesis 48**Part-Time Course Structure****Credit  
Points****Contact  
Hrs/Wk****Year 1, Semester 1**

BSB400	Research Methodology	12	3
HRN115	Contemporary Issues in HRM	12	3

**Year 1, Semester 2**

BSN144/1	Thesis	12	
HRN116	HRM Cases*	12	3

**Year 2, Semester 1**

BSN144/2	Thesis	12	
	Elective Unit*	12	3

**Year 2, Semester 2**

BSN144/3/4 Thesis 24

**Year 3, Semester 1**

BSN145/1/2 Thesis 24

**Year 3, Semester 2**

BSN145/3/4 Thesis 24

\* Semesters of these units may be changed.

**Year 4, Semester 1**

BSN145		
/5/6	Thesis	24

**Year 4, Semester 2**

BSN145		
/7/8	Thesis	24

**INDUSTRIAL RELATIONS MAJOR****Full-Time Course Structure**

Credit Points	Contact Hrs/Wk
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**Year 1, Semester 1**

BSB400	Research Methodology	12	3
HRN101	Advanced Theory & Comparativism	12	3
HRN117	Industrial Relations & Work Organisation	12	3
BSN144/1	Thesis	12	

**Year 1, Semester 2**

BSN144			
/2/3/4	Thesis*	36	
	Elective Unit	12	3

**Year 2, Semester 1**

BSN145		
/1/2/3/4	Thesis	48

**Year 2, Semester 2**

BSN145		
/5/6/7/8	Thesis	48

**Part-Time Course Structure**

Credit Points	Contact Hrs/Wk
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**Year 1, Semester 1**

BSB400	Research Methodology	12	3
HRN101	Advanced Theory & Comparativism	12	3

**Year 1, Semester 2**

BSN144/1	Thesis	12	
HRN117	Industrial Relations & Work Organisation*	12	3

**Year 2, Semester 1**

BSN144/2	Thesis	12	
	Elective Unit*	12	3

**Year 2, Semester 2**

BSN144/3/4	Thesis	24	
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**Year 3, Semester 1**

BSN145/1/2	Thesis	24	
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**Year 3, Semester 2**

BSN145/3/4	Thesis	24	
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**Year 4, Semester 1**

BSN145/5/6	Thesis	24	
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\* Semesters of these units may be changed.

**Year 4, Semester 2**

BSN145/7/8 Thesis 24

**INTERNATIONAL BUSINESS MAJOR****Full-Time Course Structure****Credit  
Points****Contact  
Hrs/Wk****Year 1, Semester 1**

BSB400	Research Methodology	12	3
BSN144/1	Thesis	12	
EPN109	International Business Policy & Competitive Strategies	12	3
	Elective Unit	12	3

**Year 1, Semester 2**

BSN144			
/2/3/4	Thesis	36	
EPN110	Regional Study	12	3

**Year 2, Semester 1**

BSN145			
/1/2/3/4	Thesis	48	

**Year 2, Semester 2**

BSN145			
/5/6/7/8	Thesis	48	

**Part-Time Course Structure****Credit  
Points****Contact  
Hrs/Wk****Year 1, Semester 1**

BSB400	Research Methodology	12	3
EPN109	International Business Policy & Competitive Strategies	12	3

**Year 1, Semester 2**

EPN110	Regional Study	12	3
	Elective Unit	12	3

**Year 2, Semester 1**

BSN144/1/2	Thesis	24	
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**Year 2, Semester 2**

BSN144/3/4	Thesis	24	
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**Year 3, Semester 1**

BSN145/1/2	Thesis	24	
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**Year 3, Semester 2**

BSN145/3/4	Thesis	24	
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**Year 4, Semester 1**

BSN145			
/5/6	Thesis	24	

**Year 4, Semester 2**

BSN145			
/7/8	Thesis	24	

**MANAGEMENT MAJOR****Full-Time Course Structure****Credit  
Points****Contact  
Hrs/Wk****Year 1, Semester 1**

BSB400	Research Methodology	12	3
BSN144/1	Thesis	12	
HRN118	Advanced Readings in Management	12	3
HRN119	Current Issues in Management	12	3

**Year 1, Semester 2**

BSN144			
1/2/3/4	Thesis	36	
	Elective Unit	12	3

**Year 2, Semester 1**

BSN145			
1/1/2/3/4	Thesis	48	

**Year 2, Semester 2**

BSN145			
1/5/6/7/8	Thesis	48	

**Part-Time Course Structure****Credit  
Points****Contact  
Hrs/Wk****Year 1, Semester 1**

BSB400	Research Methodology	12	3
HRN118	Advanced Readings in Management	12	3

**Year 1, Semester 2**

HRN119	Current Issues in Management*	12	3
BSN144/1	Thesis	12	

**Year 2, Semester 1**

BSN144/2	Thesis	12	
	Elective Unit*	12	3

**Year 2, Semester 2**

BSN144/3/4	Thesis	24	
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**Year 3, Semester 1**

BSN145/1/2	Thesis	24	
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**Year 3, Semester 2**

BSN145/3/4	Thesis	24	
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**Year 4, Semester 1**

BSN145			
1/5/6	Thesis	24	

**Year 4, Semester 2**

BSN145			
1/6/7	Thesis	24	

\* Semesters of these units may be changed.

**PUBLIC POLICY MAJOR**  
**Full-Time Course Structure**

**Credit  
Points**      **Contact  
Hrs/Wk**

**Year 1, Semester 1**

BSB400	Research Methodology	12	3
BSN144/1	Thesis	12	
EPN104	Policy Analysis	12	3
EPN106	Program Management	12	3

**Year 1, Semester 2**

BSN144	Thesis	36	
2/3/4		12	3
	Elective Unit		

**Year 2, Semester 1**

BSN145			
1/1/2/3/4	Thesis	48	

**Year 2, Semester 2**

BSN145			
1/5/6/7/8	Thesis	48	

BUSINESS

**Part-Time Course Structure**

**Credit  
Points**      **Contact  
Hrs/Wk**

**Year 1, Semester 1**

BSB400	Research Methodology	12	3
EPN104	Policy Analysis	12	3

**Year 1, Semester 2**

BSN144/1	Thesis	12	
EPN106	Program Management*	12	3

**Year 2, Semester 1**

BSN144/2	Thesis	12	
	Elective Unit*	12	3

**Year 2, Semester 2**

BSN144/3/4	Thesis	24	
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**Year 3, Semester 1**

BSN145/1/2	Thesis	24	
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**Year 3, Semester 2**

BSN145/3/4	Thesis	24	
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**Year 4, Semester 1**

BSN145			
1/5/6	Thesis	24	

**Year 4, Semester 2**

BSN145			
1/7/8	Thesis	24	

**Note:** The thesis is a substantial written report, normally containing up to 60,000 words of examinable material.

\* Semesters of these units may be changed.

## ■ Master of Business (BS85)

In the fields of: Marketing Management and Marketing Science.  
(Subject to University approval.)

**Course Duration:** 2 years full-time, 4 years part-time.

**Total Credit Points:** 192

**Standard Credit Points/Semester:** 48

**Course Coordinator:** Mr Bill Collyer

### Entry Requirements

Applicants for admission to candidature for the Master of Business (Marketing) shall:

- (i) hold an approved Business or other degree which includes a relevant major in the area of intended masters level study;
- (ii) alternatively, candidates who produce evidence of other qualifications and/or experience which is considered by the Dean to qualify the candidate for admission may be accepted.

The Master of Business (Marketing) normally requires two years of full-time study or four years of part-time study. However, graduates possessing a Bachelor of Business (Honours) in a relevant discipline area from the marketing field of study or an approved equivalent Honours qualification will receive credit for the first year full-time or the first two years part-time of the normal masters program as set out in the Handbook.

### 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 units chosen from other institutions' masters-level programs.

Full-Time Course Structure		Credit Points	Contact Hrs/Wk
<b>Year 1, Semester 1</b>			
BSB400	Research Methodology	12	3
	OR		
MKN100	Seminars in Quantitative Research Methods	12	3
	Elective Unit 1*	12	3
	Elective Unit 2*	12	3
	Elective Unit 3*	12	3
<b>Year 1, Semester 2</b>			
MKN104			
/1/2/3/4	Thesis	48	
<b>Year 2, Semester 1</b>			
MKN104			
/5/6/7/8	Thesis	48	
<b>Year 2, Semester 2</b>			
MKN104			
/9/10/11/12	Thesis	48	



## Elective Units

\* Students must choose three elective units from:

BSB400	Research Methodology	12	3
MKN100	Seminars in Quantitative Research Methods	12	3
MKN101	Seminars in Business Forecasting	12	3
MKN102	Business Logistics	12	3
MKN103	Seminars in Marketing Modelling	12	3
MKN107	Seminars in Marketing Management	12	3
MKN108	Seminars in Consumer Behaviour	12	3
MKN109	Product Innovation & Development	12	3
MKN110	Seminars in Strategic Marketing	12	3

or any other appropriate postgraduate unit with the course coordinator's approval.

## Part-Time Course Structure

**Credit  
Points**

**Contact  
Hrs/Wk**

### Year 1, Semester 1

BSB400	Research Methodology	12	3
	OR		
MKN100	Seminars in Quantitative Research Methods	12	3
	Elective Unit 1*	12	3

### Year 1, Semester 2

	Elective Unit 2*	12	3
	Elective Unit 3*	12	3

### Year 2, Semester 1

MKN104			
/1/2	Thesis	24	

### Year 2, Semester 2

MKN104			
/3/4	Thesis	24	

### Year 3, Semester 1

MKN104			
/5/6	Thesis	24	

### Year 3, Semester 2

MKN104			
/7/8	Thesis	24	

### Year 4, Semester 1

MKN104			
/9/10	Thesis	24	

### Year 4, Semester 2

MKN104			
/11/12	Thesis	24	

## Elective Units

\* Students must choose three elective units from:

BSB400	Research Methodology	12	3
MKN100	Seminars in Quantitative Research Methods	12	3
MKN101	Seminars in Business Forecasting	12	3
MKN102	Business Logistics	12	3
MKN103	Seminars in Marketing Modelling	12	3
MKN107	Seminars in Marketing Management	12	3
MKN108	Seminars in Consumer Behaviour	12	3

MKN109	Product Innovation & Development	12	3
MKN110	Seminars in Strategic Marketing	12	3

or any other appropriate postgraduate unit with the course coordinator's approval.

## ■ 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

The Master of Business Administration is a postgraduate degree in business administration, designed for non-business graduates. The degree includes three majors: Management, Accounting, and Design and Engineering.

### Entry Requirements

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

- (i) an undergraduate degree 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 unit will be required to complete EPN105 Statistical Methods as an elective unit in the MBA.

**MBA Director:** Dr Alan Williams

### Coordinators:

Management Major – Mr Greg Southey

Accounting Major – Mr John Sweeting

Design and Engineering – Mr Bob Nicol

### MANAGEMENT MAJOR (MAN)

#### 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 Unit	12	3
	Elective Unit	12	3
	Elective Unit	12	3

**Year 2, Semester 2**

HRN112	Business Policy	12	3
	Elective Unit	12	3
	Elective Unit	12	3
	Elective Unit	12	3

**Part-Time Course Structure****Credit  
Points****Contact  
Hrs/Wk****Year 1, Semester 1**

AYN101	Accounting Principles	12	3
HRN104	Introduction to Management	12	3

**Year 1, Semester 2**

HRN105	Labour-Management 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
EPN101	Government-Business Relations	12	3

**Year 3, Semester 1**

HRN108	People in Organisations	12	3
	Elective Unit	12	3

**Year 3, Semester 2**

HRN112	Business Policy	12	3
	Elective Unit	12	3

**Year 4, Semester 1**

	Elective Unit	12	3
	Elective Unit	12	3

**Year 4, Semester 2**

	Elective Unit	12	3
	Elective Unit	12	3

**ACCOUNTANCY MAJOR (ACA)****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
AYN113	Financial Accounting 2	12	3
EPN101	Government-Business Relations	12	3
MKN105	Decision Support Systems	12	3

**Year 2, Semester 1**

AYN114	Financial Accounting 3	12	3
FNN102	Managerial Finance	12	3

\* AYN101 Accounting Principles is incompatible with AYN112 Financial Accounting 1.

HRN108	People in Organisations	12	3
	Elective Unit (ALB122 - Law of Business Associations)	12	3

### **Year 2, Semester 2**

FNN303	Management Accounting	12	3
HRN112	Business Policy	12	3
	Elective Unit (ALB132 - Taxation Law)	12	3
	Elective Unit (AYN120 Auditing)	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**

AYN112	Financial Accounting 1*	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
AYN113	Financial Accounting 2	12	3

### **Year 3, Semester 1**

FNN102	Managerial Finance	12	3
HRN108	People in Organisations	12	3

### **Year 3, Semester 2**

FNN303	Management Accounting	12	3
HRN112	Business Policy	12	3

### **Year 4, Semester 1**

AYN114	Financial Accounting 3	12	3
	Elective Unit (ALB122 - Law of Business Associations)	12	3

### **Year 4, Semester 2**

	Elective Unit (ALB132 - Taxation Law)	12	3
	Elective Unit (AYN120 - Auditing)	12	3

### **Incompatible Units**

**Note:** AYN101 Accounting Principles is incompatible with AYN112 Financial Accounting 1.

### **DESIGN AND ENGINEERING MAJOR**

<b>Full-Time Course Structure</b>	<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
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### **Year 1, Semester 1**

AYN101	Accounting Principles	12	3
EPN102	Managerial Economics	12	3
HRN104	Introduction to Management	12	3
MKN106	Marketing Methods & Practices	12	3

\* AYN101 Accounting Principles is incompatible with AYN112 Financial Accounting 1.

**Year 1, Semester 2**

ALN103	Business Law & Ethics	12	3
EPN101	Government-Business Relations	12	3
HRN105	Labour-Management Relations	12	3
MKN105	Decision Support Systems	12	3

**Year 2, Semester 1**

HRN108	People in Organisations	12	3
MEN170	Systems Modelling & Simulation	12	3
	Elective Unit	12	3
	Elective Unit	12	3

**Year 2, Semester 2**

HRN112	Business Policy	12	3
	Elective Unit	12	3
	Elective Unit	12	3
	Elective Unit	12	3

**Part-Time Course Structure**

Credit Points	Contact Hrs/Wk
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**Year 1, Semester 1**

HRN104	Introduction to Management	12	3
MKN106	Marketing Methods & Practice	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
MEN170	Systems Modelling & Simulations	12	3

**Year 2, Semester 2**

ALN103	Business Law & Ethics	12	3
HRN105	Labour-Management Relations	12	3

**Year 3, Semester 1**

AYN101	Accounting Principles	12	3
HRN108	People in Organisations	12	3

**Year 3, Semester 2**

HRN112	Business Policy	12	3
	Elective Unit	12	3

**Year 4, Semester 1**

	Elective Unit	12	3
	Elective Unit	12	3

**Year 4, Semester 2**

	Elective Unit	12	3
	Elective Unit	12	3

**Elective Units****MANAGEMENT MAJOR**

Elective units may be undertaken across a number of areas, provided that prerequisite requirements are met. Alternatively, a student may use the elective units to pursue more specialised study in an area of particular interest. Please consult the Postgraduate Student Office, Faculty of Business for a list of elective units available in 1993. Students undertaking the Management Major and who wish to major in areas such as Finance,

Economics, Marketing and International Business should take FNN102 Managerial Finance as an elective unit early in their program.

MBA candidates will be permitted to undertake elective units from a limited number of advanced undergraduate units offered within the Faculty of Business. A small number of Master of Business units may also be available as MBA elective units.

### **Elective Units**

#### **ACCOUNTING MAJOR**

Accounting Major students must undertake three elective units and upon completion will satisfy the academic requirements for Associate level membership of the Australian Society of CPAs.

To satisfy the academic requirements for CPA level membership of the Australian Society of CPAs and the Institute of Chartered Accountants in Australia, the following three units must be completed as elective units:

ALB122	Law of Business Associations	12	3
ALB132	Taxation Law	12	3
AYN120	Auditing	12	3

Accounting Major students who have not successfully completed at least one quantitative methods/statistics degree-level unit will be required to take the unit EPN105 Statistical Methods as an additional elective unit. Suggested elective units are noted in brackets in the course structure

### **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 unit by unit 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 units 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 may not be permitted to graduate with a GDBA unless they actually complete six GDBA/MBA units offered by this University.

### **Relationship between MBA and GDBA**

Following the successful completion of eight MBA units (including at least five units 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 units 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.

## ■ Master of Quality (BS86)

This course is administered by the Academic Boards of the Faculties of Built Environment and Engineering, Business and Science through the Key Centre in Strategic Management.

**Location:** Gardens Point campus

**Course Duration:** 2 years part-time

**Total Credit Points:** 96

**Standard Credit Points/Full-Time Semester:** 48

**Course Coordinator:** Professor Ian Saunders

### Entry Requirements

Applicants for the Master of Quality normally will enrol first for the Graduate Diploma in Quality. Students who perform adequately in the Graduate Diploma (normally a GPA of 5 or higher) will be eligible to proceed with the MQual.

Suitably qualified applicants may be exempted from some or all of the requirements of the Graduate Diploma.

Course Structure		Credit Points	Contact Hrs/Wk	Duration (Wks)
<b>Year 1, Semester 1</b>				
BSN143	Implementing and Sustaining Total Quality Management	12	3	14
MAN120	Quantitative Systems Analysis	6	3	7
MEN180	Project Management	6	3	7
<b>Year 1, Semester 2</b>				
HRN112	Business Policy	12	3	14
HRN114	Legal and Industrial Requirements	6	3	7
MEN181	Loss Control Management	6	3	7
<b>Year 2, Semester 1</b>				
Choose any two elective units from the following four units:				
MKN111	Marketing for Quality Management	6	3	7
OR				
MAN210	Designed Experiments for Quality Improvement	6	3	7
OR				
ISN380	Information Systems & Quality	6	3	7
OR				
MEN271	Metrology AND	6	3	7
BSN149	Project	12	3	14
<b>Year 2, Semester 2</b>				
BSN150	Project (continued)	24	3	14

## □ 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 units (including at least six of the 12 compulsory units), 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). See details elsewhere in this Handbook.

## ■ 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

Applicants should hold 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 units in order to make good any deficiency in their qualifications to enter the postgraduate course.

### Course Requirements

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

#### List 1

##### ACCOUNTING

AYN103	Advanced Company Accounting	AYN117	Financial Reporting
AYN104	Audit Sampling	AYN118	Internal Auditing
AYN106	Auditing Honours	AYN119	International Accounting
AYN107	Auditing Standards & Practice	AYN300	Accounting 1 (PY)
AYN109	Computer Auditing	AYN301	Auditing (PY)
AYN111	External Reporting Issues	AYN302	Special Topic - Public Accounting
AYN115	Financial Accounting Honours		

#### List 2

##### MANAGERIAL ACCOUNTING/FINANCE

FNN100	Advanced Capital Budgeting	FNN110	Managerial Accounting Issues A
FNN101	Finance Honours	FNN111	Managerial Accounting Issues B
FNN103	Financial Modelling	FNN112	Special Topic – Managerial Accounting/Finance
FNN104	Financial Risk Management	FNN300	Accounting 2 (PY)
FNN105	International Finance	FNN301	Management Accounting (PY)
FNN106	Managerial Accounting Honours		



### List 3

#### ACCOUNTING LEGAL STUDIES

ALN101	Advanced Tax Planning	ALN109	Special Topic – Commercial Law
ALN102	Advanced Taxation	ALN110	Taxation Policy Honours
ALN104	Commercial Law Honours	ALN300	Insolvency & Reconstruction (PY)
ALN105	Indirect Taxation	ALN301	Taxation 1 (PY)
ALN106	International Taxation	ALN302	Taxation 2 (PY)
ALN107	Liquidations & Receiverships		

### List 4

EPN101	Government-Business Relations
HRN108	People in Organisations
HRN112	Business Policy
MKN106	Marketing Methods & Practice

### 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:

ALN101	Advanced Tax Planning
ALN301	Taxation 1 (PY)
AYN117	Financial Reporting
AYN300	Accounting 1 (PY)
FNN300	Accounting 2 (PY)
	Elective Unit 1
	Elective Unit 2

Plus one of:

ALN300	Insolvency & Reconstruction (PY)
ALN302	Taxation 2 (PY)
AYN301	Auditing (PY)
FNN301	Management Accounting (PY)

Postgraduate units will be offered every year subject to staff availability and student numbers.

### Units Offered

**Credit  
Points**      **Contact  
Hrs/Wk**

#### Semester 1

ALN101	Advanced Tax Planning	12	3
ALN102	Advanced Taxation	12	3
ALN106	International Taxation	12	3
AYN102	Accounting Research	12	3
AYN104	Audit Sampling	12	3
AYN107	Auditing Standards & Practice	12	3
AYN115	Financial Accounting Honours	12	3
AYN117	Financial Reporting	12	3
AYN301	Auditing (PY)	12	3
FNN100	Advanced Capital Budgeting	12	3
FNN101	Finance Honours	12	3
FNN106	Managerial Accounting Honours	12	3

FNN110	Managerial Accounting Issues A	12	3
FNN111	Managerial Accounting Issues B	12	3
FNN300	Accounting 2 (PY)	12	3
FNN301	Management Accounting (PY)	12	3

## Semester 2

ALN104	Commercial Law Honours	12	3
ALN105	Indirect Taxation	12	3
ALN107	Liquidations & Receiverships	12	3
ALN110	Taxation Policy Honours	12	3
ALN300	Insolvency & Reconstruction (PY)	12	3
ALN301	Taxation 1 (PY) (Note: Classes begin in April)	12	3
ALN302	Taxation 2 (PY)	12	3
AYN103	Advanced Company Accounting	12	3
AYN106	Auditing Honours	12	3
AYN109	Computer Auditing	12	3
AYN111	External Reporting Issues	12	3
AYN118	Internal Auditing	12	3
AYN119	International Accounting	12	3
AYN300	Accounting 1 (PY)	12	3
BSN100	Dissertation	12	3
FNN103	Financial Modelling	12	3
FNN104	Financial Risk Management	12	3
FNN105	International Finance	12	3

## ■ Graduate Diploma in Business (Administration) (BS78)

In the fields of: Arts Administration, Human Services, Management, Organisational Change, and Personnel Management

**Location:** Kedron Park and Gardens Point campuses

**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

A candidate for entry into the Graduate Diploma of Business Administration program should normally possess:

- (i) an undergraduate degree from a recognised Australian or overseas institution;
- (ii) at least two years of appropriate full-time work experience.
  - (a) Applicants for the Arts Administration major may be eligible with part-time or volunteer work experience. A selection interview is required.
  - (b) Applicants for the Human Services major must have not less than three years experience in human service organisations. A selection interview is required.
- (iii) mature age applicants without a degree but with extensive experience at an appropriate level will be considered for special entry.

**ARTS ADMINISTRATION MAJOR****Full-Time Course Structure****Credit  
Points****Contact  
Hrs/Wk****Year 1, Semester 1**

HRN104	Introduction to Management	12	3
AYN101	Accounting Principles	12	3
	OR		
EPN102	Managerial Economics	12	3
HRN108	People in Organisations	12	3
	OR		
MKN106	Marketing Methods and Practices	12	3
MKP108	Arts Administration & Society	12	3

**Year 1, Semester 2**

ALN103	Business Law & Ethics	12	3
	OR		
COB112	Organisational Communication	12	3
	OR		
HRN105	Labour Management Relations	12	3
MKP109	The Arts Industry	12	3
MKP107	Marketing for Arts Administrators	12	3
	Elective Unit	12	3

**BUSINESS****Part-Time Course Structure****Credit  
Points****Contact  
Hrs/Wk****Year 1, Semester 1**

HRN104	Introduction to Management	12	3
MKP108	Arts Administration & Society	12	3

**Year 1, Semester 2**

ALN103	Business Law & Ethics	12	3
	OR		
COB112	Organisational Communication	12	3
	OR		
HRN105	Labour-Management Relations	12	3
MKP109	The Arts Industry	12	3

**Year 2, Semester 1**

HRN108	People in Organisations	12	3
	OR		
MKN106	Marketing Methods & Practices	12	3
AYN101	Accounting Principles	12	3
	OR		
EPN102	Managerial Economics	12	3

**Year 2, Semester 2**

MKP107	Marketing for Arts Administrators	12	3
	Elective Unit	12	3

**HUMAN SERVICES MAJOR****Part-Time Course Structure****Credit  
Points****Contact  
Hrs/Wk****Year 1, Semester 1**

COP118	Managing Human Service Organisations 1	12	3
HRN104	Introduction to Management	12	3

**Year 1, Semester 2**

ALN103	Business Law & Ethics	12	3
	OR		
COB112	Organisational Communication	12	3
	OR		
HRN105	Labour-Management Relations	12	3
COP110	Social & Organisational Change	12	3

**Year 2, Semester 1**

HRN108	People in Organisations	12	3
	OR		
MKN106	Marketing Methods & Practice	12	3
AYN101	Accounting Principles	12	3
	OR		
EPN102	Managerial Economics	12	3

**Year 2, Semester 2**

COP119	Managing Human Service Organisations 2	12	3
	Elective Unit	12	3

This major is only offered part-time.

**MANAGEMENT MAJOR****Full-Time Course Structure**

**Credit  
Points**      **Contact  
Hrs/Wk**

**Year 1, Semester 1**

HRN104	Introduction to Management	12	3
AYN101	Accounting Principles	12	3
	OR		
EPN102	Managerial Economics	12	3
HRN108	People in Organisations	12	3
	OR		
MKN106	Marketing Methods & Practice	12	3
	Elective Unit	12	3

**Year 1, Semester 2**

ALN103	Business Law & Ethics	12	3
	OR		
HRN105	Labour-Management Relations	12	3
	Elective Unit	12	3
	Elective Unit	12	3
	Elective Unit	12	3

**Part-Time Course Structure**

**Credit  
Points**      **Contact  
Hrs/Wk**

**Year 1, Semester 1**

HRN104	Introduction to Management	12	3
AYN101	Accounting Principles	12	3
	OR		
EPN102	Managerial Economics	12	3

**Year 1, Semester 2**

ALN103	Business Law & Ethics	12	3
	OR		
HRN105	Labour-Management Relations	12	3
	Elective Unit	12	3

**Year 2, Semester 1**

HRN108	People in Organisations	12	3
	OR		

MKN106	Marketing Methods & Practices	12	3
	Elective Unit	12	3
<b>Year 2, Semester 2</b>			
	Elective Unit	12	3
	Elective Unit	12	3

## ORGANISATIONAL CHANGE MAJOR

### Full-Time Course Structure

#### Year 1, Semester 1

COB102	Consulting for Organisational Change	12	3
HRN104	Introduction to Management	12	3
AYN101	Accounting Principles	12	3
	OR		
EPN102	Managerial Economics	12	3
HRN108	People in Organisations	12	3
	OR		
MKN106	Marketing Methods & Practices	12	3

#### Year 1, Semester 2

ALN103	Business Law & Ethics	12	3
	OR		
COB112	Organisational Communication	12	3
	OR		
HRN105	Labour-Management Relations	12	3
COB103	Perspectives on Organisation & Environment	12	3
COB111	Organisational Change: Applications	12	3
COP110	Social & Organisational Change	12	3

### Part-Time Course Structure

#### Year 1, Semester 1

COB102	Consulting for Organisational Change	12	3
HRN104	Introduction to Management	12	3

#### Year 1, Semester 2

ALN103	Business Law & Ethics	12	3
	OR		
COB112	Organisational Communication	12	3
	OR		
HRN105	Labour-Management Relations	12	3
COP110	Social & Organisational Change	12	3

#### Year 2, Semester 1

HRN108	People in Organisations	12	3
	OR		
MKN106	Marketing Methods & Practices	12	3
AYN101	Accounting Principles	12	3
	OR		
EPN102	Managerial Economics	12	3

#### Year 2, Semester 2

COB103	Perspectives on Organisation & Environment	12	3
COB111	Organisational Change: Applications	12	3

**PERSONNEL MANAGEMENT MAJOR****Full-Time Course Structure**

		<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
<b>Year 1, Semester 1</b>			
HRN104	Introduction to Management	12	3
HRN108	People in Organisations	12	3
HRP110	Human Resource Management	12	3
	Elective Unit	12	3

**Year 1, Semester 2**

HRN105	Labour Management Relations	12	3
	HR Elective Unit	12	3
	HR Elective Unit	12	3
	Elective Unit	12	3

**Part-Time Course Structure**

		<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
<b>Year 1, Semester 1</b>			
HRN104	Introduction to Management	12	3
HRP110	Human Resource Management	12	3

**Year 1, Semester 2**

HRN105	Labour-Management Relations	12	3
	Elective Unit	12	3

**Year 2, Semester 1**

HRN108	People in Organisations	12	3
	HR Elective Unit	12	3

**Year 2, Semester 2**

	HR Elective Unit	12	3
	Elective Unit	12	3

**Elective Units**

Arts Administration and Human Services minors select elective units from:

**ELECTIVE UNITS (2 units)**

COB102	Consulting for Organisational Change	12	3
COB108	Inter-Organisational Relations	12	3
COB114	Trends in Organisational Design	12	3
COP111	Independent Study	12	1
COP123	Applications in Communication Technology	12	3
COP124	Issues in Communication Technology in Organisations	12	3
MKB124	Public Relations Principles	12	3
MKP102	Entrepreneurship	12	3
MKP100	Fundraising Principles	12	3

**Notes:**

- Elective units other than those listed may be selected from other undergraduate and postgraduate courses at QUT subject to approval of the course coordinator and the unit lecturer.
- At least 50% of units taken must be taken at postgraduate level.
- If students have undertaken equivalent studies in a prior award, they will be required to substitute for the unit(s).
- Students intending to seek enrolment in the MBA are advised to choose elective units compatible with the MBA structure.

## ■ Graduate Diploma in Communication (BS72)

With majors in: Advertising, Film and Television, Fundraising, Journalism, Organisational Communication, and Public Relations

**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

Except in exceptional circumstances and with the approval of the Dean of the Faculty a part-time student may not enrol for more than two units in any one semester. Prerequisites for all units with COB, MJB, MKB codes may be waived for students in the Graduate Diploma in Communication at the discretion of the Head of School or their nominee.

#### ADVERTISING MAJOR

##### Full-Time Course Structure

##### Year 1, Semester 1

COB138	Written Communication: Theory & Practice	12	3
	Advertising Elective Unit from Group 1 (below)(a)	12	3
	Advertising Elective Unit from Group 1 (below)	12	3
	Elective Unit (b)	12	3

##### Year 1, Semester 2

COB113	Theoretical Perspectives on Communication	12	3
MKB126	Advertising Management	12	3
	Advertising Elective Unit from Group 2 (below)(c)	12	3
	Elective Unit (c)	12	3

Part-Time Course Structure		Credit Points	Contact Hrs/Wk
<b>Year 1, Semester 1</b>			
	Advertising Elective Unit from Group 1 (below)(a)	12	3
	Elective Unit (b)	12	3
<b>Year 1, Semester 2</b>			
COB138	Written Communication: Theory & Practice	12	3
	Advertising Elective Unit from Group 1 (below)	12	3
<b>Year 2, Semester 1</b>			
COB113	Theoretical Perspectives on Communication	12	3
	Elective Unit (c)	12	3
<b>Year 2, Semester 2</b>			
MKB126	Advertising Management	12	3
	Advertising Elective Unit from Group 2 (below)(c)	12	3
<b>Advertising Elective Units Group 1</b>			
MKB116	Principles of Advertising (a)	12	3
MKB118	Advertising Copywriting	12	3
MKB122	Advertising Regulation & Ethics	12	3
MKB125	Media Planning	12	3
MKB157	Principles of Direct Marketing	12	3
<b>Advertising Elective Units Group 2</b>			
MKB119	Advertising Copywriting - Electronic (c)	12	3
MKB121	Retail Advertising	12	3
MKB128	Direct Response Advertising	12	3
(i) MKB116 <b>must be taken</b> by students who have not worked in the advertising or marketing industries. It must <b>not</b> be taken by those who have worked in those industries. If in doubt students should consult the Senior Lecturer in Advertising. (ii) Students who have not previously studied a marketing unit are <b>strongly</b> recommended to take MKB140 Principles of Marketing as their Year 1, Semester 1 elective unit. (iii) Students taking MKB119 <b>must</b> take MJB126 Video Production as their Year 2, Semester 1 elective unit.			
<b>FILM AND TELEVISION MAJOR</b>			
Full-Time Course Structure		Credit Points	Contact Hrs/Wk
<b>Year 1, Semester 1</b>			
COB138	Written Communication: Theory & Practice	12	3
MJB126	Video Production	12	3
MJB127	Narrative Concepts	12	3
MJB129	Film & Television Scriptwriting	12	3
<b>Year 1, Semester 2</b>			
COB113	Theoretical Perspectives on Communication	12	3
MJB134	Video Documentary Production	12	3
	Elective Unit	12	3
	Elective Unit	12	3



**Part-Time Course Structure****Credit  
Points****Contact  
Hrs/Wk****Year 1, Semester 1**

COB138	Written Communication: Theory & Practice	12	3
MJB127	Narrative Concepts	12	3

**Year 1, Semester 2**

MJB126	Video Production	12	3
MJB129	Film & Television Scriptwriting	12	3

**Year 2, Semester 1**

MJB134	Video Documentary Production	12	3
	Elective Unit	12	3

**Year 2, Semester 2**

COB113	Theoretical Perspectives on Communication	12	3
	Elective Unit	12	3

**FUNDRAISING MAJOR****Full-Time Course Structure****Credit  
Points****Contact  
Hrs/Wk****Year 1, Semester 1**

COB138	Written Communication: Theory & Practice	12	3
MKB140	Principles of Marketing	12	3
MKP100	Fundraising Principles	12	3
	Elective Unit	12	3

**Year 1, Semester 2**

COB113	Theoretical Perspectives on Communication	12	3
MKB157	Principles of Direct Marketing	12	3
MKP101	Fundraising Campaigns	12	3
	Elective Unit	12	3

**Part-Time Course Structure****Credit  
Points****Contact  
Hrs/Wk****Year 1, Semester 1**

COB138	Written Communication: Theory & Practice	12	3
MKP100	Fundraising Principles	12	3

**Year 1, Semester 2**

COB113	Theoretical Perspectives on Communication	12	3
MKB140	Principles of Marketing	12	3

**Year 2, Semester 1**

MKB157	Principles of Direct Marketing	12	3
	Elective Unit	12	3

**Year 2, Semester 2**

MKP101	Fundraising Campaigns	12	3
	Elective Unit	12	3

**JOURNALISM MAJOR****Full-Time Course Structure****Credit  
Points****Contact  
Hrs/Wk****Year 1, Semester 1**

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 Unit	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 Unit	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 Unit	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 Unit	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
	OR		
COB109	Issues in Publishing	12	3
COB113	Theoretical Perspectives on Communication	12	3
COB138	Written Communication: Theory & Practice	12	3
	Elective Unit	12	3

### **Year 1, Semester 2**

COB112	Organisational Communication	12	3
COB157	Corporate Writing & Editing	12	3
CON102	Advanced Organisational Communication	12	3
	Elective Unit	12	3

### **Part-Time Course Structure**

**Credit  
Points**      **Contact  
Hrs/Wk**

### **Year 1, Semester 1**

COB106	Group Communication: Theory & Practice	12	3
	OR		
COB109	Issues in Publishing	12	3
COB138	Written Communication: Theory & Practice	12	3

**Year 1, Semester 2**

COB112	Organisational Communication	12	3
COB113	Theoretical Perspectives on Communication	12	3

**Year 2, Semester 1**

Elective Unit	12	3
Elective Unit	12	3

**Year 2, Semester 2**

COB157	Corporate Writing & Editing	12	3
CON102	Advanced Organisational Communication	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 Unit	12	3

**Year 1, Semester 2**

COB113	Theoretical Perspectives on Communication	12	3
MKB123	Publications Management	12	3
MKB132	Government & Financial Relations	12	3
	Elective Unit	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**

COB113	Theoretical Perspectives on Communication	12	3
MKB129	Publicity & Promotion - Print	12	3

**Year 2, Semester 1**

MKB123	Publications Management	12	3
	Elective Unit	12	3

**Year 2, Semester 2**

MKB132	Government & Financial Relations	12	3
	Elective Unit	12	3

**Elective Units**

It is recommended that students select their elective units from another major in the Graduate Diploma in Communication. Any deviation from this must be approved in writing by the course coordinator or 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:** To be advised.

### 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	International Industrial Relations	12	3
HRP104	Industrial Relations Practices	12	3
	OR		
	Elective Unit		
HRP107	Industrial Relations Theory	12	3
<b>Year 1, Semester 2</b>			
ALP102	Australian Industrial Law	12	3
HRP103	Industrial Relations Strategies & Policies	12	3
	OR		
	Elective Unit		
HRP105	Industrial Relations Processes	12	3
HRP106	Industrial Relations & Society	12	3

### Part-Time Course Structure

		<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
<b>Year 1, Semester 1</b>			
ALP101	Employment Law	12	3
HRP100	International Industrial Relations	12	3
<b>Year 1, Semester 2</b>			
ALP102	Australian Industrial Law	12	3
HRP106	Industrial Relations & Society	12	3
<b>Year 2, Semester 1</b>			
HRP104	Industrial Relations Practices	12	3
	OR		
	Elective Unit		
HRP107	Industrial Relations Theory	12	3
<b>Year 2, Semester 2</b>			
HRP103	Industrial Relations Strategies & Policies	12	3
HRP105	Industrial Relations Processes	12	3
	OR		
	Elective Unit		

Elective units to be selected from:

HRB105	Human Resources & the Organisation	12	3
HRN104	Introduction to Management	12	3
HRN108	People in Organisations	12	3

or a unit approved by the course coordinator.

## ■ Graduate Diploma in Quality (BS77)

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

## ■ 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:

- (i) a QUT Bachelor of Business (Accountancy) degree or equivalent; and
- (ii) usually should have attained a grade point average (GPA) of least 5 over that degree, including grades of at least credit in all units 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

#### Core Units (Compulsory)

AYN102	Accounting Research
BSN100	Dissertation

**Credit  
Points**

12  
24

**Contact  
Hrs/Wk**

3

### Other Units

Students must complete five units from this group (subject to the approval of the course coordinator) including at least one of AYN115, FNN101, FNN106.

ALN104	Commercial Law Honours	12	3
ALN110	Taxation Policy Honours	12	3
AYN106	Auditing Honours	12	3
AYN115	Financial Accounting Honours	12	3
FNN101	Finance Honours	12	3
FNN106	Managerial Accounting Honours	12	3
	Elective Unit*	12	
	Elective Unit*	12	

## ■ 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

\* Elective units may be taken from postgraduate units offered by any faculty within the University, subject to the approval of the course coordinator.

**Course Coordinators:**

Dr Stuart Cunningham – Communication

Mr Bill Collyer – Marketing

**Entry Requirements**

Applicants for admission to candidature for the Bachelor of Business (Honours) shall:

- (i) hold a Bachelor of Business from QUT with a grade point average (GPA) of 5 or better in relevant units studied in the three years of undergraduate study; or
- (ii) hold from QUT or from another tertiary institution, qualifications approved by the relevant Board of Studies as equivalent to the requirements set out above, including a GPA of 5 or above;
- (iii) alternatively, candidates who produce evidence of other qualifications and/or experience which is considered by the Dean on advice of the course coordinator to qualify the candidate for admission, may be accepted.

**Full-Time Course Structure****Credit  
Points****Contact  
Hrs/Wk****Year 1, Semester 1**

BSP102	Communication Seminar	12	3
COP106	Communication Theory 1	12	3
MJP101	Communication Theory 2	12	3
MJP102	Communication Policy Environment	12	3
	OR		
COP108	Communication Technologies & Society	12	3
	OR		
	Unit approved by the course coordinator	12	3

**Year 1, Semester 2**

BSP100	Dissertation	48	
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**Part-Time Course Structure****Credit  
Points****Contact  
Hrs/Wk****Year 1, Semester 1**

COP106	Communication Theory 1	12	3
MJP101	Communication Theory 2	12	3

**Year 1, Semester 2**

BSP102	Communication Seminar	12	3
BSP104	Dissertation Part 1	12	

**Year 2, Semester 1**

COP108	Communication Technologies & Society	12	3
	OR		
MJP102	Communication Policy Environment	12	3
	OR		
	Unit approved by the course coordinator	12	3
BSP105	Dissertation Part 2	12	

**Year 2, Semester 2**

BSP106	Dissertation Part 3	24	
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## ■ Bachelor of Business (Honours) (BS62)

With majors in: Economics, Human Resource Management, Industrial Relations, International Business, Management and Public Policy

**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 for admission to candidature for a Bachelor of Business (Honours) shall;

- (i) hold a Bachelor of Business from QUT and shall have achieved a grade point average (GPA) of 5 or better in units studied in the three years of undergraduate study. Greater weight may be given to performance in advanced level units; or
- (ii) hold from QUT or another tertiary institution, qualifications approved by the Faculty of Business Academic Board as equivalent to the requirements set out in paragraph (i); or
- (iii) have other qualifications and experience which is considered by the Dean to qualify for admission.

Applications for admission to Honours will normally be at the end of the final year of the pass degree, or within 18 months of completing the pass degree.

### Course Requirements

Students must complete three prescribed units (36 credit points), one elective unit (12 credit points), and a thesis (48 credit points).

Coursework units and thesis will be graded on a 1-7 scale. The course coordinator, in conjunction with thesis examiners and supervisors, will recommend awards of 1st class, 2nd class division A, 2nd class division B, or 3rd class Honours to Academic Board, on the basis that the thesis is weighted at twice the weight of the coursework.

### ECONOMICS MAJOR

#### Full-Time Course Structure

		Credit Points	Contact Hrs/Wk
<b>Year 1, Semester 1</b>			
BSB400	Research Methodology	12	3
BSN144/1	Thesis	12	
EPN108	Developments in Microeconomic Theories	12	3
EPN111	Contemporary Macroeconomic Theories	12	3
<b>Year 1, Semester 2</b>			
BSN144			
/2/3/4	Thesis	36	
	Elective Unit	12	3



**Part-Time Course Structure****Credit  
Points****Contact  
Hrs/Wk****Year 1, Semester 1**

BSB400	Research Methodology	12	3
EPN111	Contemporary Macroeconomic Theories	12	3

**Year 1, Semester 2**

BSN144/1	Thesis	12	
EPN108	Developments in Microeconomic Theories*	12	3

**Year 2, Semester 1**

BSN144/2	Thesis	12	
	Elective Unit*	12	3

**Year 2, Semester 2**

BSN144/3/4	Thesis	24	
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**HUMAN RESOURCE MANAGEMENT MAJOR****Full-Time Course Structure****Credit  
Points****Contact  
Hrs/Wk****Year 1, Semester 1**

BSB400	Research Methodology	12	3
BSN144/1	Thesis	12	3
HRN115	Contemporary Issues in HRM	12	3
HRN116	HRM Cases	12	3

**Year 1, Semester 2**

BSN144		36	
/2/3/4	Thesis	12	3
	Elective Unit		

**Part-Time Course Structure****Credit  
Points****Contact  
Hrs/Wk****Year 1, Semester 1**

BSB400	Research Methodology	12	3
HRN115	Contemporary Issues in HRM	12	3

**Year 1, Semester 2**

BSN144/1	Thesis	12	
HRN116	HRM Cases*	12	3

**Year 2, Semester 1**

BSN144/2	Thesis	12	
	Elective Unit*	12	3

**Year 2, Semester 2**

BSN144/3/4	Thesis	24	
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**INDUSTRIAL RELATIONS MAJOR****Full-Time Course Structure****Credit  
Points****Contact  
Hrs/Wk****Year 1, Semester 1**

BSB400	Research Methodology	12	3
BSN144/1	Thesis	12	
HRN101	Advanced Theory & Comparativism	12	3
HRN117	Industrial Relations & Work Organisation	12	3

\* Semesters of these units may be changed.

**Year 1, Semester 2**

BSN144		
2/3/4	Thesis	36
	Elective Unit	12

**Part-Time Course Structure**

Credit Points	Contact Hrs/Wk
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**Year 1, Semester 1**

BSB400	Research Methodology	12	3
HRN101	Advanced Theory & Comparativism	12	

**Year 1, Semester 2**

BSN144/1	Thesis	12
HRN117	Industrial Relations & Work Organisation*	12

**Year 2, Semester 1**

BSN144/2	Thesis	12
	Elective Unit*	12

**Year 2, Semester 2**

BSN144/3/4	Thesis	24
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**INTERNATIONAL BUSINESS MAJOR****Full-Time Course Structure**

Credit Points	Contact Hrs/Wk
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**Year 1, Semester 1**

BSB400	Research Methodology	12	3
BSN144/1	Thesis	12	
EPN109	International Business Policy & Competitive Strategies	12	3
	Elective Unit	12	

**Year 1, Semester 2**

BSN144		
2/3/4	Thesis	36
EPN110	Regional Study	12
		3

**Part-Time Course Structure**

Credit Points	Contact Hrs/Wk
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**Year 1, Semester 1**

BSB400	Research Methodology	12	3
EPN109	International Business Policy & Competitive Strategies	12	

**Year 1, Semester 2**

EPN110	Regional Study	12
	Elective Unit	12

**Year 2, Semester 1**

BSN144/1/2	Thesis	24
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**Year 2, Semester 2**

BSN144/3/4	Thesis	24
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\* Semesters of these units may be changed.

**MANAGEMENT MAJOR****Full-Time Course Structure****Credit  
Points****Contact  
Hrs/Wk****Year 1, Semester 1**

BSB400	Research Methodology	12	3
BSN144/1	Thesis	12	
HRN118	Advanced Readings in Management	12	3
HRN119	Current Issues in Management	12	3

**Year 1, Semester 2**

BSN144			
1/2/3/4	Thesis	36	
	Elective Unit	12	

**Part-Time Course Structure****Credit  
Points****Contact  
Hrs/Wk****Year 1, Semester 1**

BSB400	Research Methodology	12	3
HRN118	Advanced Readings in Management	12	

**Year 1, Semester 2**

BSN144/1	Thesis	12	
HRN119	Current Issues in Management*	12	

**Year 2, Semester 1**

BSN144/2	Thesis	12	
	Elective Unit*	12	

**Year 2, Semester 2**

BSN144/3/4	Thesis	24	
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**PUBLIC POLICY MAJOR****Full-Time Course Structure****Credit  
Points****Contact  
Hrs/Wk****Year 1, Semester 1**

BSN144/1	Thesis	12	
BSB400	Research Methodology	12	
EPN104	Policy Analysis	12	3
EPN106	Program Management	12	3

**Year 1, Semester 2**

BSN144			
2/3/4	Thesis	36	
	Elective Unit	12	

**Part-Time Course Structure****Credit  
Points****Contact  
Hrs/Wk****Year 1, Semester 1**

BSB400	Research Methodology	12	
EPN104	Policy Analysis	12	

**Year 1, Semester 2**

BSN144/1	Thesis	12	
EPN106	Program Management*	12	

\* Semesters of these units may be changed.

## **Year 2, Semester 1**

BSN144/2	Thesis	12
	Elective Unit*	12

## **Year 2, Semester 2**

BSN144/3/4	Thesis	24
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**Note:** It is recommended that students select their elective units from the major in the Honours program in which they are enrolled or an approved advanced undergraduate unit which was not completed in their undergraduate degree.

## **■ Special requirements for the Bachelor of Business degree 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 units 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 units 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 unit 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:** Dr Mike Quayle

### **Subject Area Coordinators:**

Accountancy, Banking and Finance, and Accounting Legal Studies – Ms Chris Ryan  
Economics, International Business and Public Administration – Mr Peter Carroll  
Human Resource Management, Management and Industrial Relations – Mr Paul Sutcliffe  
Journalism and Film and Television – Associate Professor Len Granato  
Marketing, Advertising and Public Relations – Mr Terry Euler  
Organisational Communication and Organisational Studies – Ms Lyn Simpson

### **Course Requirements**

Students commencing the Bachelor of Business from 1992 onwards must complete the following requirements:

- (i) 24 units totalling 288 credit points;
- (ii) these units will comprise four faculty core units, four units as required by a student's Board of Studies and eight specific units comprising a Primary Major and one of the following:
  - (a) Extended Major and four elective units or a minor
  - (b) Secondary Major
  - (c) two minors

\* *Semesters of these units may be changed.*

- (d) one Minor and four elective units
- (e) eight elective units.

Elective units may be chosen from any degree course at QUT or from any other recognised University subject to the approval of the student's course coordinator.

#### DEFINITIONS

Different types of Major:

- (i) **Primary Major** – a group of eight specified units in a particular discipline area. These units 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 units in a discipline area different from the primary major.
- (iii) **Minor** – a coherent group of four specified units in a discipline area.
- (iv) **Extended Major** – an additional group of four specified units in the same discipline area as the primary major.

### ☐ **Accountancy Major (ACA)**

#### ACCOUNTANCY EXTENDED MAJOR

**Location:** School of Accountancy; Gardens Point and Kedron Park campuses, Sunshine Coast centre (First two and a half years only)

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

**Total Credit Points:** 288

**Standard Credit Points/Full-Time Semester:** 48

**Subject Area 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 as satisfying the academic requirements of 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 Finance 3 as elective units.

To satisfy the academic requirements for CPA level membership of the ASCPA and membership of the ICA, graduates must complete the Accountancy Extended Major.

To satisfy the academic requirements for Associate level membership of the ASCPA, graduates must have completed the Accountancy major.

**ACCOUNTANCY EXTENDED MAJOR****Full-Time Course Structure****Credit  
Points****Contact  
Hrs/Wk****Year 1, Semester 1**

AYB110	Accounting	12	4
EPB150	Microeconomics	12	3
ISB892	Business Computing	12	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**

ALB122	Law of Business Associations*	12	3
AYB101	Computerised Accounting Systems*	12	3
AYB112	Company Accounting	12	4
COB160	Professional Communication (Business)	12	3

**Year 2, Semester 2**

AYB210	Auditing	12	3
BSB102	Management & Organisation	12	3
FNB111	Finance 1	12	4
FNB123	Managerial Accounting 1	12	4

**Year 3, Semester 1**

ALB132	Taxation Law*	12	3
FNB112	Finance 2*	12	4
FNB124	Managerial Accounting 2	12	4
	Elective Unit	12	

**Year 3, Semester 2**

AYB113	Accounting Theory & Applications	12	4
	Elective Unit	12	
	Elective Unit	12	
	Elective Unit	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

**Year 2, Semester 1**

ISB892	Business Computing	12	4
MAB173	Quantitative Methods	12	3

**Year 2, Semester 2**

ALB110	Business Law	12	3
EPB110	Business Statistics	12	3

\* *Extended major units.*

**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
FNB111	Finance 1	12	4

**Year 4, Semester 1**

ALB122	Law of Business Associations*	12	3
AYB112	Company Accounting	12	4

**Year 4, Semester 2**

AYB210	Auditing	12	3
FNB123	Managerial Accounting 1	12	4

**Year 5, Semester 1**

ALB132	Taxation Law*	12	3
FNB112	Finance 2*	12	4

**Year 5, Semester 2**

AYB113	Accounting Theory & Applications	12	4
	Elective Unit	12	

**Year 6, Semester 1**

FNB124	Managerial Accounting 2	12	4
	Elective Unit	12	

**Year 6, Semester 2**

	Elective Unit	12	
	Elective Unit	12	

**HONOURS YEAR (OPTIONAL)**

Refer to the course outline of BS60 for details.

**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 units as electives:

**Secondary Major Options**

ALB100	Taxation Disputes	12	3
ALB103	Financial Institutions Law	12	3
ALB105	International Business Law	12	3
ALB111	Commercial & Securities Law	12	3
ALB120	Company Law & Practice	12	3
ALB121	Insolvency Law & Practice	12	3
ALB130	Indirect Taxation	12	3
ALB131	Tax Planning	12	3
ALB133	Taxation of Business Entities	12	3

**Note:** Students undertaking this secondary major should do ALB132 Taxation Law in Year 2, Semester 2 of the full-time program (Year 4, Semester 2 of the part-time program) instead of AYB210 Auditing, so as to allow for a suitable choice of elective units to be undertaken in the law major.

\* Extended major units.

# ACCOUNTANCY WITH BUSINESS COMPUTING SECONDARY MAJOR

## Full-Time Course Structure

**Credit  
Points**      **Contact  
Hrs/Wk**

### Year 1, Semester 1

AYB110	Accounting	12	4
EPB150	Microeconomics	12	3
ISB892	Business Computing	12	4
MAB173	Quantitative Methods	12	3

### Year 1, Semester 2

AYB111	Financial Accounting	12	4
CSB155	Introduction to Computing	12	4
EPB110	Business Statistics	12	3
EPB140	Macroeconomics	12	3

### Year 2, Semester 1

ALB110	Business Law	12	3
AYB101	Computerised Accounting Systems	12	3
COB160	Professional Communication (Business)	12	3
ITB222	Systems Analysis & Design 1	12	4

### Year 2, Semester 2

AYB112	Company Accounting	12	4
BSB102	Management & Organisation	12	3
FNB123	Managerial Accounting 1	12	4
ITB221	Laboratory 3 (Commercial Programming)	12	4

### Year 3, Semester 1

AYB210	Auditing	12	3
FNB124	Managerial Accounting 2	12	4
ISP383	Office Information Systems	12	3
	OR		
ITB242	Decision Support Systems	12	3
ITB520	Data Communications	12	4

### Year 3, Semester 2

AYB113	Accounting Theory & Applications	12	4
AYB212	Computer Security & Audit	12	3
FNB111	Finance 1	12	4
	Elective Unit*	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

### Year 2, Semester 1

ISB892	Business Computing	12	4
MAB173	Quantitative Methods	12	3

\* Computing elective units.



**Year 2, Semester 2**

EPB110	Business Statistics	12	3
CSB155	Introduction to Computing	12	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
ITB222	Systems Analysis & Design 1	12	4

**Year 4, Semester 1**

ALB110	Business Law	12	3
ITB520	Data Communications	12	4

**Year 4, Semester 2**

AYB112	Company Accounting	12	4
FNB123	Managerial Accounting 1	12	4

**Year 5, Semester 1**

AYB210	Auditing	12	3
ITB221	Laboratory 3 (Commercial Programming)	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
ISP383	Office Information Systems	12	3
	OR		
ITB242	Decision Support Systems	12	3

**Year 6, Semester 2**

AYB113	Accounting Theory & Applications	12	4
	Elective Unit*	12	

**HONOURS YEAR (OPTIONAL)**

Refer to the course outline of BS60 for details.

**□ Advertising Major (ADV)**

**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

**Subject Area Coordinator:** Mr Terry Euler

**Standard Credit Points/Full-Time Semester:** 48

**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

\* Computing elective unit.

Advertisers and the Australian Direct Marketing Association. Graduates are eligible for Associate Membership (Dip) of the Advertising Institute of Australia.

<b>Full-Time Course Structure</b>		<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
<b>Year 1, Semester 1</b>			
COB113	Theoretical Perspectives on Communication	12	3
COB138	Written Communication: Theory & Practice	12	3
MKB112	Research Methods	12	3
MKB140	Principles of Marketing	12	3
<b>Year 1, Semester 2</b>			
COB134	Speech Communication: Theory & Practice	12	3
ISB892	Business Computing	12	3
MKB116	Principles of Advertising	12	3
MKB142	Consumer Behaviour	12	3
<b>Year 2, Semester 1</b>			
MKB118	Advertising Copywriting	12	3
MKB122	Advertising Regulation & Ethics	12	3
MKB157	Principles of Direct Marketing	12	3
	Elective Unit	12	
<b>Year 2, Semester 2</b>			
MKB125	Media Planning	12	3
MKB141	Marketing Management	12	3
	Elective Unit*		
	Elective Unit*		
<b>Year 3, Semester 1</b>			
COB106	Group Communication: Theory & Practice	12	3
EPB116	Economic Principles	12	3
MKB126	Advertising Management	12	3
	Elective Unit	12	
<b>Year 3, Semester 2</b>			
MKB128	Direct Response Advertising	12	3
MKB131	Advertising Campaigns	12	3
EPB124	Government	12	3
	Elective Unit	12	
<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
MKB140	Principles of Marketing	12	3
<b>Year 1, Semester 2</b>			
COB113	Theoretical Perspectives on Communication	12	3
MKB112	Research Methods	12	3
<b>Year 2, Semester 1</b>			
ISB892	Business Computing	12	3
MKB116	Principles of Advertising	12	3

\* Students are recommended to take MKB119 Advertising Copywriting - Electronic and MKB121 Retail Advertising for these elective units.

**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**

MKB157	Principles of Direct Marketing Elective Unit	12 12	3
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**Year 4, Semester 1**

MKB141	Marketing Management Elective Unit*	12 12	3
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**Year 4, Semester 2**

COB134	Speech Communication: Theory & Practice	12	3
MKB126	Advertising Management	12	3

**Year 5, Semester 1**

MKB128	Direct Response Advertising Elective Unit*	12 12	3
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**Year 5, Semester 2**

COB106	Group Communication: Theory & Practice Elective Unit	12 12	3
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**Year 6, Semester 1**

EPB124	Government	12	3
MKB131	Advertising Campaigns	12	3

**Year 6, Semester 2**

EPB116	Economic Principles Elective Unit	12 12	3
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**HONOURS YEAR (OPTIONAL)**

Refer to the course outline of BS61 for details.

**□ Banking and Finance Major (BKF)****BANKING AND FINANCE EXTENDED MAJOR**

**Location:** School of Finance, Gardens Point campus, Sunshine Coast centre (First year only).

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

**Total Credit Points:** 288

**Standard Credit Points/Full-Time Semester:** 48

**Subject Area 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.

\* Students are recommended to take MKB119 Advertising Copywriting - Electronic and MKB121 Retail Advertising for these elective units.

The degree is recognised as satisfying the academic requirements for membership purposes by the Australian Institute of Bankers. If the units 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 units 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 Corporate Managers, Secretaries and Administrators (ICMSA).

Full-Time Course Structure		Credit Points	Contact Hrs/Wk
<b>Year 1, Semester 1</b>			
AYB110	Accounting	12	4
EPB150	Microeconomics	12	3
ISB892	Business Computing	12	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>			
ALB103	Financial Institutions Law	12	3
AYB112	Company Accounting*	12	4
COB160	Professional Communication (Business)	12	3
FNB111	Finance 1	12	4
<b>Year 2, Semester 2</b>			
BSB102	Management & Organisation	12	3
FNB112	Finance 2	12	4
FNB117	Financial Modelling	12	4
FNB123	Managerial Accounting 1	12	4
<b>Year 3, Semester 1</b>			
FNB100	Australian Financial Markets	12	3
FNB114	Financial Institutions - Lending	12	3
	Elective Unit	12	
	Elective Unit	12	
<b>Year 3, Semester 2</b>			
FNB115	Financial Institutions - Management	12	4
FNB120	International Finance*	12	4
	Elective Unit	12	
	Elective Unit	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

\* Extended major units.

**Year 2, Semester 1**

ISB892	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 Elective Unit	12	4
		12	

**Year 6, Semester 1**

	Elective Unit	12	
	Elective Unit	12	

**Year 6, Semester 2**

FNB120	International Finance*	12	4
	Elective Unit	12	

**HONOURS YEAR (OPTIONAL)**

Refer to the course outline of BS60 for details.

**□ 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

**Subject Area Coordinator:** Mr Peter Carroll

\* Extended major units.

### Professional Recognition

This degree satisfies the academic requirements for ordinary membership of the Economics Society of Australia, and, with the completion of the extended major, for professional membership of the Queensland division of the Economics Society, the Chartered Institute of Transport, the Market Research Society and the Australian Marketing Institute. It also partially fulfils the requirements for affiliate membership of the Australian Institute of Bankers.

### Full-Time Course Structure

		Credit Points	Contact Hrs/Wk
<b>Year 1, Semester 1</b>			
BSB102	Management & Organisation	12	3
	OR		
EPB124	Government	12	3
EPB140	Macroeconomics	12	3
ISB892	Business Computing	12	4
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	12	3
	OR		
EPB124	Government	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	12	3
	Major Option	12	
	Elective Unit	12	

### Year 3, Semester 1

Major Option	12
Extended Major Option or Elective Unit	12
Extended Major Option or Elective Unit	12
Elective Unit	12

### Year 3, Semester 2

Extended Major Option or Elective Unit	12
Extended Major Option or Elective Unit	12
Elective Unit	12
Elective Unit	12

### Part-Time Course Structure

		Credit Points	Contact Hrs/Wk
<b>Year 1, Semester 1</b>			
EPB140	Macroeconomics	12	3
ISB892	Business Computing	12	4

**Year 1, Semester 2**

BSB102	Management & Organisation	12	3
	OR		
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
EPB104	Applied Economic Techniques 1	12	3

**Year 4, Semester 2**

Major Option	12
Elective Unit	12

**Year 5, Semester 1**

Major Option	12
Elective Unit	12

**Year 5, Semester 2**

Extended Major Option or Elective Unit	12
Elective Unit	12

**Year 6, Semester 1**

Extended Major Option or Elective Unit	12
Extended Major Option or Elective Unit	12

**Year 6, Semester 2**

Extended Major Option	12
Elective Unit	12

Students may select their Major and Extended Major options from the list below.

**MAJOR AND EXTENDED MAJOR OPTIONS**

EPB102	Applied Econometrics A*	12	3
EPB103	Applied Econometrics B	12	3
EPB107	Business Economic Forecasting	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

\* Denotes major option.

EPB160	Public Sector Economics*	12	3
EPB164	Spatial & Regional Economics	12	3
EPB168	Transport & Communication Economics	12	3
FNB111	Finance I	12	4

## HONOURS YEAR (OPTIONAL)

Refer to the course outline of BS62 for details.

## □ Film and Television 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

**Standard Credit Points/Full-Time Semester:** 48

**Subject Area Coordinator:** Mr Ridley Williams

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
ISB892	Business Computing	12	4
MJB118	Fundamentals of Photography*+	12	3
<b>Year 1, Semester 2</b>			
COB134	Speech Communication: Theory & Practice	12	3
MJB108	Creative Sound & Image*+	12	3
MJB120	Newsriting	12	3
MJB127	Narrative Concept*	12	3
<b>Year 2, Semester 1</b>			
COB106	Group Communication: Theory & Practice	12	3
MJB126	Video Production	12	3
MJB129	Film & Television Scriptwriting*+	12	3
	Elective Unit	12	
<b>Year 2, Semester 2</b>			
MJB113	Film Drama Production*+	12	3
MJB116	Film Language & Genre	12	3
MJB134	Video Documentary Production*+	12	3
	Elective Unit	12	
<b>Year 3, Semester 1</b>			
MJB104	Media Industries & Issues	12	3
MJB114	Film & Video Business*	12	3
MJB131	Television Studio/Post Production*+	12	3
	Elective Unit	12	
<b>Year 3, Semester 2</b>			
BSB102	Management & Organisation	12	3
EPB116	Economic Principles	12	3

\* Workshops may involve a further three hours.

+ Denotes major option.



MJB102	Text Analysis OR	12	3
MJB115	Supervised Project Film & TV+ Elective Unit	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
ISB892	Business Computing	12	4
<b>Year 1, Semester 2</b>			
COB113	Theoretical Perspectives on Communication	12	3
MJB118	Fundamentals of Photography*+	12	3
<b>Year 2, Semester 1</b>			
COB134	Speech Communication: Theory & Practice	12	3
MJB127	Narrative Concepts*+	12	3
<b>Year 2, Semester 2</b>			
MJB120	Newsriting	12	3
MJB129	Film & Television Scriptwriting*+	12	3
<b>Year 3, Semester 1</b>			
MJB108	Creative Sound & Image*+	12	3
MJB116	Film Language & Genre#	12	3
<b>Year 3, Semester 2</b>			
COB106	Group Communication: Theory & Practice	12	3
MJB126	Video Production+	12	3
<b>Year 4, Semester 1</b>			
EPB116	Economic Principles	12	3
MJB134	Video Documentary Production*+	12	3
<b>Year 4, Semester 2</b>			
MJB104	Media Industries & Issues	12	3
MJB131	Television Studio/Post Production*+	12	3
<b>Year 5, Semester 1</b>			
MJB113	Film Drama Production*+	12	3
	Elective Unit	12	
<b>Year 5, Semester 2</b>			
MJB114	Film & Video Business*	12	3
	Elective Unit	12	
<b>Year 6, Semester 1</b>			
MJB102	Text Analysis OR	12	3
MJB115	Supervised Project Film & TV+ Elective Unit	12 12	3
<b>Year 6, Semester 2</b>			
BSB102	Management & Organisation Elective Unit	12 12	3

\* Denotes major option.

+ Workshops may involve a further three hours.

# Students may not take both Film Language and Genre, and Film Genres.

## HONOURS YEAR (OPTIONAL)

Refer to the course outline of BS61 for details.

### ☐ 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

**Subject Area Coordinator:** Mr Paul Sutcliffe

#### Professional Recognition

This degree satisfies the academic requirements for membership of the Australian Human Resources Institute, the Australian Institute of Management and the Australian Institute of Training and Development.

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
ISB892	Business Computing	12	4
HRB130	Organisational Behaviour	12	3
<b>Year 1, Semester 2</b>			
AYB100	Accounting for Managers	12	3
EPB109	Business Methodology	12	3
	OR		
EPB163	Research & Survey Methods	12	3
EPB124	Government	12	3
HRB131	Personnel Management & Industrial Relations	12	3
<b>Year 2, Semester 1</b>			
HRB105	Human Resources & the Organisation	12	3
	Major Option	12	
	Elective Unit	12	
	Elective Unit	12	
<b>Year 2, Semester 2</b>			
HRB103	Employment Regulation & Administration	12	3
HRB104	Foundation HR Competencies	12	3
	Major Option	12	
	Elective Unit	12	
<b>Year 3, Semester 1</b>			
HRB100	Advanced Organisational Behaviour	12	3
	Major Option	12	
	Elective Unit	12	
	Elective Unit	12	

\* Students selecting Macroeconomics must also include Microeconomics in their program.

**Year 3, Semester 2**

HRB136	Strategic HRM	12	3
	Elective Unit	12	
	Elective Unit	12	
	Elective Unit	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**

HRB105	Human Resources & the Organisation	12	3
ISB892	Business Computing	12	3

**Year 2, Semester 2**

EPB109	Business Methodology	12	3
	OR		
EPB163	Research & Survey Methods	12	4
HRB104	Foundation HRM Competencies	12	3

**Year 3, Semester 1**

EPB124	Government	12	3
	Major Option	12	

**Year 3, Semester 2**

AYB100	Accounting for Managers	12	3
HRB103	Employment Regulation & Administration	12	3

**Year 4, Semester 1**

HRB100	Advanced Organisational Behaviour	12	3
	Elective Unit	12	

**Year 4, Semester 2**

Major Option	12	
Elective Unit	12	

**Year 5, Semester 1**

Elective Unit	12	
Elective Unit	12	

**Year 5, Semester 2**

Elective Unit	12	
Elective Unit	12	

**Year 6, Semester 1**

Major Option	12	
Elective Unit	12	

**Year 6, Semester 2**

HRB136	Strategic HRM	12	3
	Elective Unit	12	

\* Students selecting Macroeconomics must also include Microeconomics in their program.

## MAJOR AND EXTENDED MAJOR OPTIONS

Extended majors are any four units 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
HRB118	International Management	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
HRB402	Public Personnel Management	12	3

## HONOURS YEAR (OPTIONAL)

Refer to the course outline of BS62 for details.

## □ Industrial Relations Major (IRE)

**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

**Subject Area Coordinator:** Mr Paul Sutcliffe

### Professional Recognition

Graduates can join the Industrial Relations Society and the Australian Human Resources Institute.

### 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>			
EPB106	Australian Economic History*	12	3
	OR		
EPB150	Microeconomics*	12	3
HRB113	Industrial Relations History	12	3

\* 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
ISB892	Business Computing	12	4

### Year 2, Semester 1

HRB110	Industrial Law	12	3
HRB114	Industrial Relations Institutions	12	3
HRB138	Work & Society	12	3
	Elective Unit	12	

### Year 2, Semester 2

HRB137	Wages & Employment	12	3
	Core Option	12	
	Major Option	12	
	Elective Unit	12	

### Year 3, Semester 1

	Major Option	12	
	Elective Unit	12	
	Elective Unit	12	
	Elective Unit	12	

### Year 3, Semester 2

	Major Option	12	
	Elective Unit	12	
	Elective Unit	12	
	Elective Unit	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

HRB113	Industrial Relations History	12	3
ISB892	Business Computing	12	4

### Year 2, Semester 1

EPB124	Government	12	3
HRB131	Personnel Management & Industrial Relations	12	3

### Year 2, Semester 2

EPB106	Australian Economic History*	12	3
	OR		
EPB150	Microeconomics*	12	3
HRB137	Wages & Employment	12	3

### Year 3, Semester 1

HRB114	Industrial Relations Institutions	12	3
	Elective Unit	12	

### Year 3, Semester 2

HRB130	Organisational Behaviour	12	3
	Core Option	12	

\* Students must complete either EPB140 Macroeconomics and EPB150 Microeconomics or EPB116 Economics Principles and EPB106 Australian Economic History.

**Year 4, Semester 1**

HRB138	Work & Society	12	3
	Elective Unit	12	

**Year 4, Semester 2**

Major Option	12
Elective Unit	12

**Year 5, Semester 1**

HRB110	Industrial Law	12	3
	Elective Unit	12	

**Year 5, Semester 2**

Major Option	12
Elective Unit	12

**Year 6, Semester 1**

Major Option	12
Elective Unit	12

**Year 6, Semester 2**

Elective Unit	12
Elective Unit	12

Students should select their core options, and major and extended major options from the following lists.

**CORE OPTIONS**

AYB100	Accounting for Managers	12	3
EPB109	Business Methodology	12	3
	OR		
EPB163	Research & Survey Methods	12	3
EPB112	Critical Analysis	12	3

**MAJOR AND EXTENDED MAJOR OPTIONS**

Extended majors are any four units 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
HRB128	Occupational Health & Safety Management	12	3
HRB144	Public Sector Industrial Relations	12	3
HRB150	Comparative Industrial Relations	12	3

**HONOURS YEAR (OPTIONAL)**

Refer to the course outline of BS62 for details.

**☐ International Business Major (INB)**

**Location:** School of Economics and Public Policy, 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 Area Coordinator:** Mr Peter Carroll

## 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
ISB892	Business Computing	12	4
	Language 1*	12	3

#### Year 1, Semester 2

AYB100	Accounting for Managers	12	3
	OR		
AYB110	Accounting	12	4
EPB150	Microeconomics	12	3
EPB163	Research & Survey Methods	12	3
	OR		
MAB173	Quantitative Methods	12	3
	Language 2*	12	3

#### Year 2, Semester 1

ALB110	Business Law	12	3
EPB124	Government	12	3
MKB140	Principles of Marketing	12	3
	Language 3*	12	3

#### Year 2, Semester 2

EPB132	International Trade & Finance	12	3
	Area Studies Option	12	
	Language 4*	12	3
	Elective Unit	12	

#### Year 3, Semester 1

EPB133	Globalisation & World Business+ or Elective Unit	12	3
FNB107	Corporate Finance+ or Elective Unit	12	3
	OR		
FNB111	Finance 1 + or Elective Unit	12	4
	Area Studies Option	12	
	Elective Unit	12	

#### Year 3, Semester 2

ALB105	International Business Law+ or Elective Unit	12	3
	OR		
EPB131	International Politics & Business+ or Elective Unit	12	3
MKB149	International Marketing+ or Elective Unit	12	3
	Elective Unit	12	
	Elective Unit	12	

### Part-Time Course Structure

**Credit  
Points**

**Contact  
Hrs/Wk**

#### Year 1, Semester 1

BSB102	Management & Organisation	12	3
ISB892	Business Computing	12	4

\* Language to be chosen from designated options.

+ Denotes extended major unit.

**Year 1, Semester 2**

EPB140	Macroeconomics	12	3
EPB163	Research & Survey Methods	12	3
	OR		
MAB173	Quantitative Methods	12	3

**Year 2, Semester 1**

AYB100	Accounting for Managers	12	3
	OR		
AYB110	Accounting	12	4
EPB124	Government	12	3

**Year 2, Semester 2**

ALB110	Business Law	12	3
EPB150	Microeconomics	12	3

**Year 3, Semester 1**

MKB140	Principles of Marketing	12	3
	Language 1*	12	3

**Year 3, Semester 2**

	Language 2*	12	3
	Area Studies Option	12	

**Year 4, Semester 1**

FNB107	Corporate Finance+ or Elective Unit	12	3
	OR		
FNB111	Finance 1+ or Elective Unit	12	4
	Language 3*	12	3

**Year 4, Semester 2**

EPB132	International Trade & Finance	12	3
	Language 4*	12	3

**Year 5, Semester 1**

EPB133	Globalisation & World Business+ or Elective Unit	12	3
	Area Studies Option	12	

**Year 5, Semester 2**

MKB149	International Marketing+ or Elective Unit	12	3
	Elective Unit	12	

**Year 6, Semester 1**

	Elective Unit	12	
	Elective Unit	12	

**Year 6, Semester 2**

ALB105	International Business Law+ or Elective Unit	12	3
	OR		
EPB131	International Politics & Business+ or Elective Unit	12	3
	Elective Unit	12	

**The codes for language units are as follows:**

**Year 1, Semester 1****FRENCH**

HUB670	Introductory French 1 OR	12	5
HUB672	French Language & Culture 1#	12	4

\* Language to be chosen from designated options.

+ Denotes extended major unit.

# Advanced level unit for students who have completed Year 12 in this language.



**INDONESIAN**

HUB641	Introductory Indonesian 1	12	5
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**JAPANESE**

HUB660	Introductory Japanese 1	12	5
	OR		
HUB662	Japanese Language & Culture 1*	12	4

**GERMAN**

HUB735	Introductory German 1	12	5
	OR		
HUB737	German Language & Culture 1*	12	4

**Year 1, Semester 2****FRENCH**

HUB671	Introductory French 2	12	5
	OR		
HUB673	French Language & Culture 2*	12	4

**INDONESIAN**

HUB642	Introductory Indonesian 2	12	5
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**JAPANESE**

HUB661	Introductory Japanese 2	12	5
	OR		
HUB663	Japanese Language & Culture 2*	12	4

**GERMAN**

HUB736	Introductory German 2	12	5
	OR		
HUB738	German Language & Culture 2*	12	4

**Year 2, Semester 1**

HUB643	Indonesian Language & Culture 3		
HUB664	Japanese Language & Culture 3		
HUB674	French Language & Culture 3		
HUB739	German Language & Culture 3		

**Year 2, Semester 2**

HUB644	Indonesian Language & Culture 4		
HUB665	Japanese Language & Culture 4		
HUB675	French Language & Culture 4		
HUB740	German Language & Culture 4		

**Year 3, Semester 1**

HUB645	Indonesian Language & Culture 5		
HUB666	Japanese Language & Culture 5		
HUB676	French Language & Culture 5		
HUB741	German Language & Culture 5		

**Year 3, Semester 2**

HUB646	Indonesian Language & Culture 6		
HUB667	Japanese Language & Culture 6		
HUB677	French Language & Culture 6		
HUB742	German Language & Culture 6		

**Area Studies Options**

Students must select either Europe or Asia but may do both using elective units.

**ASIA**

EPB105	Asian Economic Development	12	3
EPB108	Business in Asia	12	3

\* Advanced level unit for students who have completed Year 12 in this language.

EUROPE			
EPB120	European Economic History	12	3
EPB121	European Integration	12	3

## HONOURS YEAR (OPTIONAL)

Refer to the course outline of BS62 for details.

## ☐ 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

**Subject Area Coordinator:** Dr Errol Hodge

### Professional Recognition

This degree is recognised by the Australian Journalists' Association.

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
ISB892	Business Computing	12	4
MJB120	News writing	12	3
<b>Year 1, Semester 2</b>			
COB134	Speech Communication: Theory & Practice	12	3
EPB116	Economic Principles	12	3
EPB124	Government	12	3
MJB121	Reporting Principles	12	3
<b>Year 2, Semester 1</b>			
COB106	Group Communication: Theory & Practice	12	3
MJB124	Feature Writing	12	3
MJB126	Video Production	12	3
	Elective Unit	12	
<b>Year 2, Semester 2</b>			
COB144	Literature & Communication	12	3
MJB132	Radio & Television Journalism 1	12	3
MJB139	Journalistic Ethics & Issues	12	3
	Elective Unit	12	
<b>Year 3, Semester 1</b>			
MJB104	Media Industries & Issues	12	3
MJB122	Sub-Editing & Layout	12	3
MJB138	Radio & Television Journalism 2	12	3
	Elective Unit	12	
<b>Year 3, Semester 2</b>			
MJB102	Text Analysis	12	3
MJB103	News Production	12	3

MJB137	Public Affairs Reporting Elective Unit	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
ISB892	Business Computing	12	4
<b>Year 1, Semester 2</b>			
COB113	Theoretical Perspectives on Communication	12	3
MJB120	Newsriting	12	3
<b>Year 2, Semester 1</b>			
COB134	Speech Communication: Theory & Practice	12	3
MJB121	Reporting Principles	12	3
<b>Year 2, Semester 2</b>			
EPB116	Economic Principles	12	3
MJB124	Feature Writing	12	3
<b>Year 3, Semester 1</b>			
EPB124	Government	12	3
MJB139	Journalistic Ethics & Issues	12	3
<b>Year 3, Semester 2</b>			
COB106	Group Communication: Theory & Practice	12	3
MJB126	Video Production	12	3
<b>Year 4, Semester 1</b>			
COB144	Literature & Communication	12	3
MJB132	Radio & Television Journalism 1	12	3
<b>Year 4, Semester 2</b>			
MJB104	Media Industries & Issues	12	3
MJB138	Radio & Television Journalism 2	12	3
<b>Year 5, Semester 1</b>			
MJB137	Public Affairs Reporting Elective Unit	12 12	3
<b>Year 5, Semester 2</b>			
MJB122	Sub-Editing & Layout Elective Unit	12 12	3
<b>Year 6, Semester 1</b>			
MJB102	Text Analysis	12	3
MJB103	News Production	12	3
<b>Year 6, Semester 2</b>			
	Elective Unit	12	
	Elective Unit	12	

## HONOURS YEAR (OPTIONAL)

Refer to the course outline BS61 for details.

## □ 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

**Subject Area 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
	OR		
AYB110	Accounting	12	4
EPB106	Australian Economic History*	12	3
	OR		
EPB150	Microeconomics*	12	3
HRB131	Personnel Management & Industrial Relations	12	3
ISB892	Business Computing	12	4
<b>Year 2, Semester 1</b>			
HRB116	Innovation & Entrepreneurship	12	3
HRB126	Management Processes	12	3
	Major Option	12	
	Elective Unit	12	
<b>Year 2, Semester 2</b>			
HRB127	Management Theory & Issues	12	3
	Major Option	12	
	Elective Unit	12	
	Elective Unit	12	
<b>Year 3, Semester 1</b>			
HRB129	Operations & Production Management	12	3
	Major Option	12	
	Elective Unit	12	
	Elective Unit	12	
<b>Year 3, Semester 2</b>			
HRB125	Management Strategy & Policy	12	3
	Elective Unit	12	

\* Students must complete either EPB140 Macroeconomics and EPB150 Microeconomics or EPB116 Economic Principles and EPB106 Australian Economic History.

Elective Unit	12
Elective Unit	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

HRB126	Management Processes	12	3
ISB892	Business Computing	12	4

### Year 2, Semester 2

AYB110	Accounting	12	4
	OR		
AYB100	Accounting for Managers	12	3
EPB106	Australian Economic History*	12	3
	OR		
EPB150	Microeconomics*	12	3

### Year 3, Semester 1

EPB124	Government	12	3
HRB116	Innovation & Entrepreneurship	12	3

### Year 3, Semester 2

Major Option	12
Elective Unit	12

### Year 4, Semester 1

HRB129	Operations & Production Management	12	3
	Elective Unit	12	

### Year 4, Semester 2

HRB127	Management Theory & Issues	12	3
	Elective Unit	12	

### Year 5, Semester 1

Major Option	12
Elective Unit	12

### Year 5, Semester 2

Elective Unit	12
Elective Unit	12

### Year 6, Semester 1

Major Option	12
Elective Unit*	12

### Year 6, Semester 2

HRB125	Management Policy & Strategy	12	3
	Elective Unit	12	

\* Students must complete either EPB140 Macroeconomics and EPB150 Microeconomics or EPB116 Economic Principles and EPB106 Australian Economic History.

## MAJOR AND EXTENDED MAJOR OPTIONS

Extended majors are any four units from the list of options not already completed in the major.

COB102	Consulting for Organisational Change	12	3
EPB109	Business Methodology	12	3
	OR		
EPB163	Research & Survey Methods	12	3
FNB111	Finance I	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
HRB135	Small Business Management	12	3
HRB140	Management & Technology	12	3
HRB147	Sports Administration	12	3
HRB403	Quality Management	12	3
MKB140	Principles of Marketing	12	3

## HONOURS YEAR (OPTIONAL)

Refer to the course outline of BS62 for details.

## ☐ 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

**Subject Area Coordinator:** Mr Terry Euler

### Professional Recognition

Students of the marketing degree may meet the requirements for 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>			
COB160	Professional Communication	12	3
EPB116	Economic Principles	12	3
ISB892	Business Computing	12	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 Unit	12	
	Elective Unit	12	

### Year 2, Semester 2

MKB108	Market Practices	12	3
	OR		
MKB146	Services Marketing	12	3
MKB148	Marketing Decision Making	12	3
	Elective Unit	12	
	Elective Unit	12	

### Year 3, Semester 1

MKB136	Marketing Logistics	12	3
MKB151	Marketing Research	12	3
	Elective Unit	12	
	Elective Unit	12	

### Year 3, Semester 2

FNB107	Corporate Finance*	12	3
	OR		
FNB111	Finance 1	12	4
MKB155	Strategic Marketing	12	3
	Elective Unit	12	
	Elective Unit	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

COB160	Professional Communication	12	3
ISB892	Business Computing	12	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

BSB102	Management & Organisation	12	3
	OR		
EPB124	Government	12	3
EPB109	Business Methodology	12	3

### Year 3, Semester 1

MKB141	Marketing Management	12	3
	Elective Unit	12	

### Year 3, Semester 2

MKB146	Services Marketing	12	3
	Elective Unit	12	

\* Students not wishing to do more Finance units are advised to complete FNB107 Corporate Finance.

**Year 4, Semester 1**

ALB110	Business Law	12	3
	Elective Unit	12	

**Year 4, Semester 2**

MKB108	Market Practices	12	3
	OR		
MKB148	Marketing Decision Making	12	3
	Elective Unit	12	

**Year 5, Semester 1**

MKB151	Marketing Research	12	3
	Elective Unit	12	

**Year 5, Semester 2**

FNB107	Corporate Finance*	12	3
	OR		
FNB111	Finance 1	12	4
	Elective Unit	12	

**Year 6, Semester 1**

MKB136	Marketing Logistics	12	3
	Elective Unit	12	

**Year 6, Semester 2**

MKB155	Strategic Marketing	12	3
	Elective Unit	12	

**HONOURS YEAR (OPTIONAL)**

Refer to the course outline of BS61 for details.

**□ 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

**Subject Area Coordinator:** Ms Lyn Simpson

**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
ISB892	Business Computing	12	4

\* Students not wishing to do more Finance units are advised to complete FNB107 Corporate Finance.



**Year 1, Semester 2**

BSB102	Management & Organisation	12	3
COB134	Speech Communication: Theory & Practice	12	3
EPB124	Government	12	3
MJB120	Newswriting	12	3

**Year 2, Semester 1**

COB106	Group Communication: Theory & Practice	12	3
COB159	Research Concepts & Techniques	12	3
	Elective Unit/Minor/Major 2	12	
	Elective Unit/Minor/Major 2	12	

**Year 2, Semester 2**

COB112	Organisational Communication	12	3
COB157	Corporate Writing & Editing	12	3
	Elective Unit/Minor/Major 2	12	
	Elective Unit/Minor/Major 2	12	

**Year 3, Semester 1**

COB102	Consulting for Organisational Change	12	3
COB158	Advanced Speech Communication (Theory & Practice)	12	3
	Elective Unit/Minor/Major 2	12	
	Elective Unit/Minor/Major 2	12	

**Year 3, Semester 2**

COB101	Computer Mediated Communication	12	3
COB103	Critical Perspectives on Organisations & Environment	12	3
	Elective Unit/Minor/Major 2	12	
	Elective Unit/Minor/Major 2	12	

**Part-Time Course Structure**

**Credit Points**      **Contact Hrs/Wk**

**Year 1, Semester 1**

COB138	Written Communication: Theory & Practice	12	3
ISB892	Business Computing	12	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	Newswriting	12	3

**Year 3, Semester 1**

	Elective Unit/Minor/Major 2	12	
	Elective Unit/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 Unit/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 Unit/Minor/Major 2	12	

**Year 5, Semester 2**

	Elective Unit/Minor/Major 2	12	
	Elective Unit/Minor/Major 2	12	

**Year 6, Semester 1**

COB100	Communication Management	12	3
COB103	Critical Perspectives on Organisations & Environment	12	3

**Year 6, Semester 2**

	Elective Unit/Minor/Major 2	12	
	Elective Unit/Minor/Major 2	12	

**HONOURS YEAR (OPTIONAL)**

Refer to the course outline of BS61 for details.

**□ 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

**Subject Area Coordinator:** Ms Lyn Simpson

**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
<b>Year 1, Semester 1</b>			
COB110	Organisation & Society	12	3
COB138	Written Communication: Theory & Practice	12	3
EPB116	Economic Principles	12	3
EPB124	Government	12	3
<b>Year 1, Semester 2</b>			
BSB102	Management & Organisation	12	3
COB105	Ethics	12	3
COB134	Speech Communication: Theory & Practice	12	3
	Elective Unit/minor/major 2	12	
<b>Year 2, Semester 1</b>			
COB129	Organisational Processes	12	3
COB159	Research Concepts & Techniques	12	3

HRB104	Foundation HR Competencies	12	3
	Elective Unit/minor/major 2	12	

### Year 2, Semester 2

COB108	Inter-Organisational Relations	12	3
COB112	Organisational Communication	12	3
	Elective Unit/minor/major 2	12	
	Elective Unit/minor/major 2	12	

### Year 3, Semester 1

COB102	Consulting for Organisational Change	12	3
COB113	Theoretical Perspectives on Communication	12	3
	Elective Unit/minor/major 2	12	
	Elective Unit/minor/major 2	12	

### Year 3, Semester 2

COB103	Critical Perspectives on Organisations & Environment	12	3
COB111	Organisational Change: Applications	12	3
	Elective Unit/minor/major 2	12	
	Elective Unit/minor/major 2	12	

### Part-Time Course Structure

**Credit  
Points**

**Contact  
Hrs/Wk**

### Year 1, Semester 1

COB110	Organisation & Society	12	3
EPB124	Government	12	3

### Year 1, Semester 2

BSB102	Management & Organisation	12	3
COB105	Ethics	12	3

### Year 2, Semester 1

COB129	Organisational Processes	12	3
COB134	Speech Communication: Theory & Practice	12	3

### Year 2, Semester 2

COB138	Written Communication: Theory & Practice	12	3
COB159	Research Concepts & Techniques	12	3

### Year 3, Semester 1

EPB116	Economic Principles	12	3
HRB104	Foundation HR Competencies	12	3

### Year 3, Semester 2

COB108	Inter-Organisational Relations	12	3
	Elective Unit/minor/major 2	12	

### Year 4, Semester 1

COB112	Organisational Communication	12	3
	Elective Unit/minor/major 2	12	

### Year 4, Semester 2

COB102	Consulting for Organisational Change	12	3
COB113	Theoretical Perspectives on Communication	12	3

### Year 5, Semester 1

	Elective Unit/minor/major 2	12	
	Elective Unit/minor/major 2	12	

## Year 5, Semester 2

Elective Unit/minor/major 2	12
Elective Unit/minor/major 2	12

## Year 6, Semester 1

COB103	Critical Perspectives on Organisations & Environment	12	3
	Elective Unit/minor/major 2	12	

## Year 6, Semester 2

COB111	Organisational Change: Applications	12	3
	Elective Unit/minor/major 2	12	

## HONOURS YEAR (OPTIONAL)

Refer to the course outline of BS61 for details.

## ☐ 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

**Subject Area Coordinator:** Mr Peter Carroll

**Standard Credit Points/Full-Time Semester:** 48

### Professional Recognition

This degree satisfies the requirements for membership of the Royal Institute of Public Administration, the Institute of Municipal Management and, subject to the choice of suitable elective units, the Australian Human Resource Institute (AHRI).

### Full-Time Course Structure

Full-Time Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
BSB102	Management & Organisation	12	3
ISB892	Business Computing	12	4
EPB124	Government	12	3
EPB140	Macroeconomics	12	3
Year 1, Semester 2			
EPB112	Critical Analysis	12	3
EPB150	Microeconomics	12	3
EPB154	National Government	12	3
EPB167	State Government	12	3
Year 2, Semester 1			
EPB100	Administrative Theory	12	3
EPB135	Local Government	12	3
EPB162	Reform & the Public Sector* or Elective Unit	12	3
EPB163	Research & Survey Methods	12	3
Year 2, Semester 2			
AYB100	Accounting for Managers	12	3
	OR		
AYB110	Accounting	12	4

\* Denotes extended major unit.

EPB156	Political & Administrative Analysis* or Elective Unit	12	3
EPB157	Public Enterprise	12	3
	Elective Unit	12	

### Year 3, Semester 1

ALB108	Public Administrative Law	12	3
EPB125	Government & Business* or Elective Unit	12	3
EPB159	Public Policy	12	3
	Elective Unit	12	

### Year 3, Semester 2

EPB131	International Politics & Business* or Elective Unit	12	3
	Elective Unit		
EPB155	Policy & Program Evaluation	12	3
	Elective Unit	12	

### Part-Time Course Structure

**Credit  
Points**

**Contact  
Hrs/Wk**

### Year 1, Semester 1

EPB124	Government	12	3
EPB140	Macroeconomics	12	3

### Year 1, Semester 2

EPB150	Microeconomics	12	3
EPB154	National Government	12	3

### Year 2, Semester 1

BSB102	Management & Organisation	12	3
ISB892	Business Computing	12	4

### Year 2, Semester 2

EPB157	Public Enterprise	12	3
EPB167	State Government	12	3

### Year 3, Semester 1

ALB108	Public Administrative Law	12	3
EPB135	Local Government	12	3

### Year 3, Semester 2

EPB112	Critical Analysis	12	3
EPB156	Political & Administrative Analysis* or Elective Unit	12	3

### Year 4, Semester 1

EPB100	Administrative Theory	12	3
EPB163	Research & Survey Methods	12	3

### Year 4, Semester 2

AYB100	Accounting for Managers	12	3
	OR		
AYB110	Accounting	12	4
	Elective Unit		

### Year 5, Semester 1

EPB159	Public Policy	12	3
EPB162	Reform & the Public Sector* or Elective Unit	12	3

### Year 5, Semester 2

EPB155	Policy & Program Evaluation	12	3
	Elective Unit	12	

\* Denotes extended major unit.

**Year 6, Semester 1**

EPB125	Government & Business* or Elective Unit	12	3
	Elective Unit	12	

**Year 6, Semester 2**

EPB131	International Politics & Business* or Elective Unit	12	3
	Elective Unit	12	

**HONOURS YEAR (OPTIONAL)**

Refer to the course outline of BS62 for details.

**☐ 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

**Subject Area 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**

**Year 1, Semester 1**

COB113	Theoretical Perspectives on Communication	12	3
COB138	Written Communication: Theory & Practice	12	3
ISB892	Business Computing	12	4
MJB120	Newsriting	12	3

**Year 1, Semester 2**

COB134	Speech Communication: Theory & Practice	12	3
EPB116	Economic Principles	12	3
MKB124	Public Relations Principles	12	3
MKB140	Principles of Marketing	12	3

**Year 2, Semester 1**

COB106	Group Communication: Theory & Practice OR	12	3
MJB104	Media Industries & Issues	12	3
MJB126	Video Production	12	3
MKB112	Research Methods	12	3
MKB129	Publicity & Promotion - Print	12	3

**Year 2, Semester 2**

MKB123	Publication Management	12	3
MKB130	Publicity & Promotion - Electronic	12	3

\* Denotes extended major unit.

MKB142	Consumer Behaviour	12	3
	Elective Unit	12	

### Year 3, Semester 1

EPB124	Government	12	3
MKB120	Public Relations Writing & Editing	12	3
MKB133	Public Relations Consulting & Management	12	3
	Elective Unit	12	

### Year 3, Semester 2

MKB117	Public Relations Campaigns	12	3
MKB132	Government & Financial Relations	12	3
	Elective Unit	12	
	Elective Unit	12	

### Part-Time Course Structure

**Credit  
Points**

**Contact  
Hrs/Wk**

### Year 1, Semester 1

COB138	Written Communication: Theory & Practice	12	3
ISB892	Business Computing	12	4

### Year 1, Semester 2

COB113	Theoretical Perspectives on Communication	12	3
MJB120	News writing	12	3

### Year 2, Semester 1

COB134	Speech Communication: Theory & Practice	12	3
MKB124	Public Relations Principles	12	3

### Year 2, Semester 2

MJB126	Video Production	12	3
MKB129	Publicity & Promotion - Print	12	3

### Year 3, Semester 1

MKB130	Publicity & Promotion - Electronic	12	3
MKB140	Principles of Marketing	12	3

### Year 3, Semester 2

COB106	Group Communication: Theory & Practice OR	12	3
MJB104	Media Industries & Issues	12	3
MKB142	Consumer Behaviour	12	3

### Year 4, Semester 1

EPB116	Economic Principles	12	3
MKB123	Publication Management	12	3

### Year 4, Semester 2

EPB124	Government	12	3
MKB120	Public Relations Writing & Editing	12	3

### Year 5, Semester 1

MKB112	Research Methods	12	3
MKB132	Government & Financial Relations	12	3

### Year 5, Semester 2

MKB133	Public Relations Consulting & Management	12	3
	Elective Unit	12	

**Year 6, Semester 1**

MKB117	Public Relations Campaigns	12	3
	Elective Unit	12	

**Year 6, Semester 2**

	Elective Unit	12
	Elective Unit	12

**HONOURS YEAR (OPTIONAL)**

Refer to the course outline of BS61 for details.

**SECONDARY MAJORS**

**Credit  
Points**

**Contact  
Hrs/Wk**

**ACCOUNTING SECONDARY MAJOR**

(For Faculty of Business students only.)

Subject to prerequisite requirements:

ALB110	Business Law	12	3
ALB122	Law of Business Associations	12	3
AYB101	Computerised Accounting Systems	12	3
AYB111	Financial Accounting	12	4
AYB112	Company Accounting	12	4
EPB110	Business Statistics	12	3
FNB111	Finance 1	12	4
FNB123	Managerial Accounting 1	12	4

**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 units selected from the following:

ALB100	Taxation Disputes	12	3
ALB103	Financial Institutions Law	12	3
ALB105	International Business 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
ALB130	Indirect Taxation	12	3
ALB131	Tax Planning	12	3
ALB132	Taxation Law	12	3
ALB133	Taxation of Business Entities	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
COB124	Office Transcription A	12	3
COB125	Office Transcription B	12	3
COB126	Supervision & Administration	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\*

Students may select up to eight of the following:

EPB102	Applied Econometrics A	12	3
EPB104	Applied Economic Techniques 1	12	3
EPB106	Australian Economic History	12	3
EPB140	Macroeconomics	12	3
EPB141	Macroeconomic Policy	12	3
EPB142	Macroeconomic Theory	12	3
EPB150	Microeconomics	12	3
EPB151	Microeconomic Policy	12	3
EPB152	Microeconomic Theory	12	3

#### ECONOMICS AND BUSINESS FORECASTING SECONDARY MAJOR\*

EPB104	Applied Economic Techniques 1	12	3
EPB107	Business Economic Forecasting	12	3
EPB110	Business Statistics	12	3
MAB173	Quantitative Methods	12	3
	OR		
EPB102	Applied Econometrics A	12	3
EPB103	Applied Econometrics B	12	3
EPB109	Business Methodology	12	3
EPB142	Macroeconomic Theory	12	3
EPB152	Microeconomic Theory	12	3

#### ECONOMICS AND PUBLIC POLICY SECONDARY MAJOR\*

EPB125	Government & Business	12	3
EPB142	Macroeconomic Theory	12	3
EPB152	Microeconomic Theory	12	3
EPB155	Policy & Program Evaluation	12	3
EPB157	Public Enterprise	12	3
EPB159	Public Policy	12	3

and two of:

EPB117	Economics of Industry	12	3
EPB127	History of Economic Thought	12	3
EPB130	International Economics	12	3
EPB141	Macroeconomic Policy	12	3
EPB151	Microeconomic Policy	12	3
EPB153	Monetary Theory & Policy	12	3
EPB158	Public Finance	12	3
EPB160	Public Sector Economics	12	3

\* An additional secondary major option must be substituted if any unit has already been completed.

EPB164	Spatial & Regional Economics	12	3
EPB168	Transport & Communication Economics	12	3

### ECONOMICS STUDIES MINOR AND MAJOR (For Bachelor of Education students only.)

#### Minor (72 credit points) plus:

EPB114	Economic Development	12	3
EPB132	International Trade & Finance	12	3
EPB140	Macroeconomics	12	3
EPB150	Microeconomics	12	3
EPB163	Research & Survey Methods	12	3
EPB171	Economic Analysis & Policy	12	3

#### Major (96 credit points) The above minor plus:

EPB106	Australian Economic History	12	3
EPB111	Comparative Economic Systems	12	3

#### 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
FNB100	Australian Financial Markets	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

ALB103	Financial Institutions - Law	12	3
FNB113	Finance 3	12	4
FNB114	Financial Institutions - Lending	12	3
FNB115	Financial Institutions - Management	12	4
FNB117	Financial Modelling	12	4
FNB120	International Finance	12	4
FNB121	Issues in Finance	12	4
FNB126	Portfolio & Security Analysis	12	4

#### GOVERNMENT SECONDARY MAJOR OPTIONS

Students may select any eight of the following units, provided they have the appropriate prerequisites:

EPB100	Administrative Theory	12	3
EPB121	European Intergration	12	3
EPB124	Government	12	3
EPB125	Government & Business	12	3
EPB131	International Politics & Business	12	3
EPB135	Local Government	12	3
EPB154	National Government	12	3
EPB155	Policy & Program Evaluation	12	3
EPB156	Political & Administrative Analysis	12	3
EPB157	Public Enterprise	12	3
EPB159	Public Policy	12	3

EPB162	Reform & the Public Sector	12	3
EPB167	State Government	12	3

#### 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 HRM	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 HR Competencies	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
HRB144	Public Sector Industrial Relations	12	3
HRB146	Special Topic - HRM	12	3
HRB402	Public Personnel Management	12	3

#### INDUSTRIAL RELATIONS SECONDARY MAJOR

BSB102	Management & Organisation	12	3
HRB114	Industrial Relations Institutions	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	
	Secondary Major Option	12	

#### INDUSTRIAL RELATIONS SECONDARY MAJOR OPTIONS

HRB102	Advocacy & Negotiation	12	3
HRB103	Employment Regulation & Administration	12	3
HRB105	Human Resources & the Organisation	12	3
HRB109	Industrial Democracy	12	3
HRB110	Industrial Law	12	3
HRB113	Industrial Relations History	12	3
HRB115	Industrial Relations Policies	12	3
HRB128	Occupational Health & Safety Management	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

#### INTERNATIONAL BUSINESS SECONDARY MAJOR OPTIONS\*

Students may select up to eight of the following:

ALB105	International Business Law	12	3
EPB105	Asian Economic Development	12	3
EPB108	Business in Asia	12	3
EPB111	Comparative Economic Systems	12	3
EPB114	Economic Development	12	3

\* An additional secondary major option must be substituted if this unit has already been completed.

EPB120	European Economic History	12	3
EPB121	European Integration	12	3
EPB131	International Politics & Business	12	3
EPB132	International Trade & Finance	12	3
EPB133	Globalisation & World Business	12	3
HRB118	International Management	12	3
MKB149	International Marketing	12	3
	Language 1	12	3
	Language 2	12	3
	Language 3	12	3
	Language 4	12	3

#### INTERNATIONAL BUSINESS AND MANAGEMENT\*

EPB131	International Politics & Business	12	3
EPB132	International Trade & Finance		
	OR		
EPB133	Globalisation & World Business	12	3
HRB118	International Management	12	3
HRB131	Personnel Management & Industrial Relations	12	3
	OR, for those who have already completed HRB131		
HRB117	International Human Resource Management	12	3
	OR		
HRB150	Comparative Industrial Relations	12	3

and any four from:

ALB105	International Business Law	12	3
EPB105	Asian Economic Development	12	3
EPB108	Business in Asia	12	3
EPB120	European Economic History	12	3
EPB121	European Integration	12	3
EPB131	International Politics & Business	12	3
EPB133	Globalisation & World Business	12	3
HRB117	International Human Resource Management		
HRB150	Comparative Industrial Relations	12	3
MKB149	International Marketing	12	3
	Language 1	12	3
	Language 2	12	3
	Language 3	12	3
	Language 4	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 1	12	3
MJB137	Public Affairs Reporting	12	3
MJB138	Radio & Television Journalism 2	12	3
MJB139	Journalistic Ethics & Issues	12	3

#### LOCAL GOVERNMENT SECONDARY MAJOR\*

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

#### MANAGEMENT SECONDARY MAJOR

BSB102	Management & Organisation*	12	3
HRB126	Management Processes	12	3

\* An additional secondary major option must be substituted if this unit has already been completed.

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	

#### MANAGEMENT SECONDARY MAJOR OPTIONS

COB102	Consulting for Organisational Change	12	3
FNB111	Finance I	12	4
HRB105	Human Resources & the Organisation	12	3
HRB106	Independent Study in Management	12	3
HRB114	Industrial Relations Institutions	12	3
HRB116	Innovation & Entrepreneurship	12	3
HRB118	International Management	12	3
HRB125	Management Strategy & Policy	12	3
HRB129	Operations & Production Management	12	3
HRB133	Public Sector Management	12	3
HRB135	Small Business Management	12	3
HRB140	Management & Technology	12	3
HRB147	Sports Administration	12	3
HRB403	Quality Management	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
MKB143	Export Management	12	3
MKB144	Sales Management	12	3
MKB145	Retailing Management	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

\* An additional secondary major option must be substituted if this unit has already been completed.

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
COB106	Group Communications: Theory & Practice	12	3
COB110	Organisation & Society	12	3
COB112	Organisational Communication	12	3
COB113	Theoretical Perspectives on Communication	12	3
COB134	Speech Communication: Theory & Practice	12	3
COB138	Written Communication: Theory & Practice	12	3
COB157	Corporate Writing & Editing	12	3

#### PUBLIC POLICY SECONDARY MAJOR\*

EPB125	Government & Business	12	3
EPB131	International Politics & Business	12	3
EPB154	National Government	12	3
EPB155	Policy & Program Evaluation	12	3
EPB159	Public Policy	12	3

and any three from:

ALB108	Public Administrative Law	12	3
EPB135	Local Government	12	3
EPB157	Public Enterprise	12	3
EPB166	Special Topic Public Policy	12	3
EPB167	State Government	12	3

#### PUBLIC RELATIONS SECONDARY MAJOR

MJB120	Newsriting	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
MKB132	Government & Financial Relations	12	3
MKB133	Public Relations Consulting & Management	12	3

#### PUBLIC ADMINISTRATION SECONDARY MAJOR

EPB155	Policy & Program Evaluation	12	3
EPB157	Public Enterprise	12	3
EPB159	Public Policy	12	3
EPB162	Reform & the Public Sector	12	3
HRB103	Employment Regulation & Administration	12	3
HRB144	Public Sector Industrial Relations	12	3
HRB146	Equal Employment Opportunity (Special Topic - HRM)	12	3
HRB402	Public Personnel Management	12	3

\* An additional secondary major option must be substituted if this unit has already been completed.

## ■ Associate Diploma in Business (Industrial Relations) (BS10)

**Course Discontinued:** No further intakes

**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 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
<b>Year 3, Semester 2</b>			
EPX102	Macroeconomic Analysis	12	3
HRX101	Industrial Relations & Management	12	3
<b>Year 4, Semester 1</b>			
HRX105	Industrial Relations Skills 3	12	3
HRX110	Workplace Issues	12	3
<b>Year 4, Semester 2</b>			
ALX101	Australian Industrial Law	12	3
HRX106	Industrial Relations Skills 4	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.





# **FACULTY OF EDUCATION**

# Courses

■ Doctor of Education (ED11) .....	387
■ Master of Education (Research) (ED12) .....	393
■ Master of Education (ED13) .....	398
■ Graduate Diploma in Education (Computer Education) (ED21) .....	406
■ Graduate Diploma in Education (Curriculum) (ED22) .....	407
■ Graduate Diploma in Education (Early Childhood) (ED20) .....	410
■ Graduate Diploma in Education (Early Childhood Teaching) (ED30) .....	411
■ Graduate Diploma in Education (Educational Management) (ED23) .....	411
■ Graduate Diploma in Education (Primary Teaching) (ED31) .....	413
■ Graduate Diploma in Education (Resource Teaching) (ED24) .....	414
■ Graduate Diploma in Education (Secondary Teaching) (ED32) .....	415
■ Graduate Diploma in Education (Teacher-Librarianship) (ED25) .....	417
■ Graduate Diploma in Education (Teacher-Librarianship) (ED27) .....	419
■ Bachelor of Education (In-Service) (ED26) .....	419
■ Bachelor of Education (Secondary) (ED50) .....	424
■ Bachelor of Education (Primary) (ED51) .....	443
■ Bachelor of Education (Early Childhood) (ED52) .....	449
■ Bachelor of Teaching (Early Childhood/Primary) .....	453
□ Bachelor of Teaching (Early Childhood) (ED40) .....	453
□ External Child Care Upgrading Program (ED42) .....	454
□ Bachelor of Teaching (Primary) (ED41) .....	455
■ Graduate Certificate in Education (ED61) .....	457
■ Graduate Certificate in Education (TESOL) (ED60) .....	460

# FACULTY OF EDUCATION

## Course Structures

### ■ Doctor of Education (ED11)

**Location:** Kelvin Grove campus

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

**Total Credit Points:** 288

**Standard Credit Points/Full-Time Semester:** 48

**Course Coordinator:** Professor Brian Hansford

#### Entry Requirements

Candidates will be admitted to the EdD who:

- (i) hold a four year Education degree, or its equivalent, with First Class Honours or Honours IIA, or
- (ii) hold a Master's degree in Education or in another field relevant to the EdD, and
- (iii) have two years' practice in a position of professional responsibility in education or a closely related field.

#### Provisional Enrolment

Students with lesser academic qualifications but with exemplary professional experience may be given provisional enrolment on the approval of the Dean of Education.

- (i) A candidate so admitted shall be required to complete the four designated qualifying units at credit level (grade of 5) or better.
- (ii) A candidate who completes course units at a satisfactory level during the period of provisional enrolment will be permitted to count these units 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 course 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 or coursework units 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 course 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 course coordinator who will nominate, through the Head of School, an academic supervisor to assist in the preparation of the appropriate application form concerning eligibility and special interests.

- (ii) A person seeking admission to the course shall apply on the appropriate application 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 the form. 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, the application will be forwarded for consideration to the course coordinator.
- (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**

- (i) Candidates for the degree of Doctor of Education will normally be required to complete their course in three years of full-time study or six years of part-time study.
- (ii) Without the permission of the Higher Degrees Advisory Committee, no full-time candidate for the degree of EdD 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.
- (iii) Where a candidate wishes to change from full-time to part-time registration, or vice versa, application must be made in writing to the Higher Degrees Advisory Committee. All such applications must specify the revised date of expected completion.
- (iv) 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 Higher Degrees Advisory 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 EdD program.

### **CREDIT POINTS**

A candidate for the Doctor of Education award will obtain a total of 144 credit points in coursework, and 144 credit points in the preparation and presentation of a thesis.

Studies in the course of the award will consist of two stages involving specified coursework and a thesis. Satisfactory performance in Stage 1 will be necessary before preparation and submission of the thesis can commence.

## **Course Structure**

### **Stage 1**

The 144 credit points of coursework in Stage 1 will consist of:

- (i) four 12 credit point units taken with students in the coursework Master of Education course;
- (ii) two 48 credit point year-long units (Advanced Seminars in Interdisciplinary Studies In Education and Advanced Seminars in Applied Educational Research).

**Note: Students entering the course with an MEd degree (or equivalent) will be granted exemption from the four 12 credit point units.**

## Stage 2

Stage 2 will consist of the preparation, presentation and defence of a thesis. The 144 credit point thesis component of Stage 2 will involve the initial preparation and oral presentation of a research proposal of at least 10,000 words at a special doctoral seminar held for that purpose.

Normally this paper will lead to the preparation and presentation of a thesis of 50,000 words (or equivalent), and an oral defence of the thesis.

Full-Time Course Structure		Credit Points	Contact Hrs/Wk
<b>Year 1, Semester 1</b>			
EDN601	Major Issues in Education	12	3
EDR700/1	Advanced Seminars in Interdisciplinary Studies in Education	24	3
	One MEd Elective Unit selected from List A (or equivalent)	12	3
<b>Year 1, Semester 2</b>			
EDN600	Research Methods in Education	12	3
EDR700/2	Advanced Seminars in Interdisciplinary Studies in Education (continued)	24	3
	One MEd Elective Unit selected from List A (or equivalent)	12	3
<b>Year 2, Semester 1</b>			
EDR701/1	Advanced Seminars in Applied Educational Research	24	3
EDR702/1	Thesis	24	
<b>Year 2, Semester 2</b>			
EDR701/2	Advanced Seminars in Applied Educational Research (continued)	24	3
EDR702/2	Thesis (continued)	24	
<b>Year 3, Semester 1</b>			
EDR702/3	Thesis (continued)	24	
EDR702/4	Thesis (continued)	24	
<b>Year 3, Semester 2</b>			
EDR702/5	Thesis (continued)	24	
EDR702/6	Thesis (continued)	24	
Part-Time Course Structure		Credit Points	Contact Hrs/Wk
<b>Year 1, Semester 1</b>			
EDN601	Major Issues in Education	12	3
	One MEd Elective Unit selected from List A (or equivalent)	12	3
<b>Year 1, Semester 2</b>			
EDN600	Research Methods in Education	12	3
	One MEd Elective Unit selected from List A (or equivalent)	12	3
<b>Year 2, Semester 1</b>			
EDR700/1	Advanced Seminars in Interdisciplinary Studies in Education	24	3

**Year 2, Semester 2**

EDR700/2	Advanced Seminars in Interdisciplinary Studies in Education (continued)	24	3
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**Year 3, Semester 1**

EDR701/1	Advanced Seminars in Applied Educational Research	24	3
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**Year 3, Semester 2**

EDR701/2	Advanced Seminars in Applied Educational Research (continued)	24	3
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**Year 4, Semester 1**

EDR702/1	Thesis	24	
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**Year 4, Semester 2**

EDR702/2	Thesis	24	
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**Year 5, Semester 1**

EDR702/3	Thesis	24	
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**Year 5, Semester 2**

EDR702/4	Thesis	24	
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**Year 6, Semester 1**

EDR702/5	Thesis	24	
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**Year 6, Semester 2**

EDR702/6	Thesis	24	
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**Elective Units****List A: MEd Elective Units**

CPN601	Emerging Leadership Approaches in Education
CPN602	Leaders as Agents of Change in Education
EAN601	Early Childhood Curriculum: Design Issues
EAN602	Early Childhood Services & Policies
EAN603	Research Seminar in Early Childhood Issues
EAN604	Young Children, Families & Community
LAN601	Foundations of English/Language Arts Education
LAN602	Literacy & Schooling
MDN601	Curriculum Studies in Mathematics, Science & Computer Education
MDN602	Focus on the Mathematics, Science & Computer Education Classroom
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
SBN601	Social & Environmental Education 1
SBN602	Social & Environmental Education 2

**TRANSFER OF CREDIT**

- (i) On the recommendation of the course 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.
- (ii) There shall be no maximum to credit granted for units previously completed at this institution prior to enrolment in the Doctor 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 units passed elsewhere after enrolment in the Doctor of Education course, provided that the candidate has previously obtained the permission of the Higher Degrees Advisory Committee to enrol in these units.
- (v) Students may be exempted from core units 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 course coordinator.

### **Thesis Supervision**

- (i) Normally two supervisors shall be appointed for each EdD candidate.
- (ii) 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 should have had such experience.
- (iii) An Associate Supervisor may be appointed either from QUT or from elsewhere. Where appropriate, more than one Associate Supervisor may be appointed. The Higher Degrees Advisory 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.
- (iv) The Higher Degrees Advisory Committee must be satisfied regarding the qualifications and experience of all proposed supervisors.
- (v) The Principal Supervisor is required to report every six months to the Higher Degrees Advisory Committee on progress made by the candidate. Each progress report is to be sighted by the candidate and submitted through the Head of School and the Director of the Centre or Research Concentration.

### **Progression and Unsatisfactory Progress**

#### **PROGRESSION**

In each year of 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 units at appropriate exit levels. For candidates enrolled in coursework, it will mean the successful completion of the relevant coursework units.

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 not attained a credit level (Grade of 5 or better) 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 course 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 course coordinator for both internal, oral and external examination. These should be temporarily bound in order to facilitate the making of any revisions and editorial changes required by examiners at each stage of the examining process (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) An oral defence of the thesis will be a component of the overall thesis examination procedure. The course coordinator will normally act as Chairperson of a panel of three 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.
- (ii) Examiners must receive copies of the thesis four weeks in advance of the date set for the oral examination.
- (iii) After making revisions suggested in the oral examination, candidates will submit three unbound copies of the thesis for external examination.
- (iv) Each thesis will then be examined by three examiners appointed by the Higher Degrees Advisory Committee 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 two of the examiners appointed will be external to the University.
- (v) Examiners will be required to submit written assessments of the thesis within eight weeks of its receipt. Those assessments will be presented on official forms forwarded with the thesis.
- (vi) When the examiners are in agreement with respect to the thesis, the course coordinator shall transmit the result of the examination on the prescribed form to the Chairperson of the Higher Degrees Advisory 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 fulfilment of the conditions for the award of the EdD degree.



- (vii) If the examiners cannot reach agreement, they shall submit separate reports and recommendations to the Higher Degrees Advisory 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.
- (viii) A candidate who fails to satisfy the Higher Degrees Advisory Committee at the first attempt may, on the recommendation of the examiners and with the approval of the Higher Degrees Advisory Committee, be re-examined not more than once. Application must be made to the Higher Degrees Advisory Committee for approval of the re-examination arrangements.
- (ix) Re-examination shall take place within 12 months from the date on which the candidate is advised in writing of such re-examination. The Higher Degrees Advisory Committee may, on application by the candidate and supported by the Principal Supervisor, approve an extension of this period.
- (x) The examiners must give the candidate guidance on the deficiencies identified by the first examination.
- (xi) The Higher Degrees Advisory Committee may require that an additional external examiner be appointed for the re-examination.
- (xii) Regulations applicable to examinations generally shall apply to the re-examination.
- (xiii) The examiners may recommend that a candidate who has been examined for the degree of EdD be awarded the degree of Master, provided that the candidate meets or can meet the requirements of a Master's program.

### **Admission to Degree**

Prior to admission to the award, a candidate must have three of the completed documents bound. Of these, one copy of the completed document must be submitted to the University Library, one to the Faculty Office, and one to the Principal Supervisor.

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 units 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 Doctor of Education.

## **■ Master of Education (Research) (ED12)**

**Location:** Kelvin Grove 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 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 units at credit level or better.
- (ii) A candidate who completes course units at a satisfactory level during the period of provisional enrolment will be permitted to count these units 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 unit(s) or a pass level in any coursework units 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. All students enrolled in this course are 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, are also 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 units 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 units 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 units.
- (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 unit 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 units 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 units 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 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 Keith Lucas

### **Entry Requirements**

Candidates will be admitted to the course who:

- (i) hold an appropriate four-year bachelor degree or equivalent at a standard acceptable to the Dean of the Faculty; or
- (ii) hold other qualifications acceptable to the Dean which may include substantial work experience or involvement in relevant research activities; and
- (iii) have had at least one year's practical experience in some branch of education acceptable to the Dean; and

- (iv) 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 course 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 units. The conditions which must be satisfied to meet the qualifying requirement must be detailed in writing by the course 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 units at credit level (grade of 5) or better.
- (ii) A candidate who completes course units at a satisfactory level during the period of provisional enrolment may be permitted to count these units 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 course 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 unit(s) or a pass level in any coursework units 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 coordinator of the relevant area of interest 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 Area of Interest 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 areas of interest. 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 Area of Interest coordinator who may require the applicant to attend an interview.
- (iii) Area of Interest coordinators will forward recommendations on applications to the Dean, through the course coordinator, 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 units and/or from research studies. The course will consist of core units and studies in a selected area of interest. Core studies will comprise 24 credit points and elective units will consist of studies totalling 72 credit points. Candidates will enrol to study in one of the designated areas of interest. They will not normally be permitted to transfer from one area of interest to another.
- (ii) Studies in the areas of interest of the course will consist of coursework units and research investigations. All students will complete a minimum of two elective units and a dissertation/thesis in their selected area of interest.

Full-Time Course Structure		Credit Points	Contact Hrs/Wk
<b>Year 1, Semester 1</b>			
EDN600	Research Methods in Education	12	3
EDN601	Major Issues in Education	12	3
EDN615	Thesis 1	12	
	OR		
EDN604	Dissertation Stage 1	12	
	One unit selected from Lists A-H in Area of Interest	12	3
Four Options are available for the structure of Semester 2. Students are required to select one.			
<b>Year 1, Semester 2</b>			
<b>Option 1 (48cp Thesis)</b>			
EDN616	Thesis 2	12	
EDN617	Thesis 3	12	
EDN618	Thesis 4	12	
	One unit selected from Lists A-H in Area of Interest	12	3
<b>Option 2 (36cp Thesis)</b>			
EDN616	Thesis 2	12	
EDN617	Thesis 3	12	
	One unit selected from Lists A-H in Area of Interest	12	3
	One unit selected from Lists A-H in Area of Interest	12	3
<b>Option 3 (24cp Dissertation)</b>			
EDN606	Dissertation Stage 2	12	
	One unit selected from Lists A-H in Area of Interest	12	3
	One unit selected from Lists A-H in Area of Interest	12	3
	One unit selected from Lists A-H in Area of Interest	12	3
<b>Option 4 (12cp Independent Study)</b>			
EDN603	Independent Study	12	
	One unit selected from Lists A-H in Area of Interest	12	3
	One unit selected from Lists A-H in Area of Interest	12	3
	One unit selected from Lists A-H in Area of Interest	12	3



**Part-Time Course Structure****Credit  
Points****Contact  
Hrs/Wk****Year 1, Semester 1**

EDN600	Research Methods in Education OR	12	3
EDN601	Major Issues in Education	12	3
	One unit selected from Lists A-H in Area of Interest	12	3

**Year 1, Semester 2**

EDN600	Research Methods in Education OR	12	3
EDN601	Major Issues in Education	12	3
	One unit selected from Lists A-H in Area of Interest	12	3

Four Options are available for the structure of Year 2. Students are required to select one.

**Option 1 (48cp Thesis)****Year 2, Semester 1**

EDN615	Thesis 1	12	
EDN616	Thesis 2	12	

**Year 2, Semester 2**

EDN617	Thesis 3	12	
EDN618	Thesis 4	12	

**Option 2 (36cp Thesis)****Year 2, Semester 1**

EDN615	Thesis 1	12	
	One unit selected from Lists A-H	12	3

**Year 2, Semester 2**

EDN616	Thesis 2	12	
EDN617	Thesis 3	12	

**Year 2, Semester 1****Option 3 (24cp Dissertation)**

EDN604	Dissertation Stage 1	12	
	One unit selected from Lists A-H	12	3

**Year 2, Semester 2**

EDN606	Dissertation Stage 2	12	
	One unit selected from Lists A-H	12	3

**Option 4 (12cp Independent Study)****Year 2, Semester 1**

	One unit selected from Lists A-H	12	3
	One unit selected from Lists A-H	12	3

**Year 2, Semester 2**

EDN603	Independent Study	12	
	One unit selected from Lists A-H	12	3

**Elective Units****LIST A: EARLY CHILDHOOD EDUCATION (ECE)**

EAN601	Early Childhood Curriculum Design Issues
EAN602	Early Childhood Services & Policies
EAN603	Research Seminar in Early Childhood Issues
EAN604	Young Children, Families & Community

**LIST B: LANGUAGE AND LITERACY EDUCATION**

LAN601	Foundations of English/Language Arts Education
LAN602	Literacy & Schooling
LAN603	Children's & Young Adults' Literature
LAN604	Contemporary Approaches in Writing

**LIST C: LEADERSHIP (LEA)**

CPN603	Changing Agendas in Leadership Education
CPN604	Equity & Education Management: Issues & Strategies
CPN605	Organisational Cultures & Education Leadership
CPN606	Educational Leadership, Power & Careers

**LIST D: LEARNING AND DEVELOPMENT**

LEN601	Learning & Cognitive Development
LEN602	Advanced Educational Counselling
LEN603	Educational Counselling Professional Practice
LEN604	Psychoeducational Assessment
LEN605	Learners with Special Needs
LEN606	Remediating Learning Difficulties

**LIST E: MATHEMATICS/SCIENCE/COMPUTING EDUCATION (MSC)**

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

**LIST F: PROFESSIONAL STUDIES IN CURRICULUM**

CUN601	Curriculum Investigations
CUN602	Professional Development
CUN603	Empowerment for Curriculum Change
CUN604	Collaborative Supervision in Curriculum Practice

**LIST G: SOCIAL AND ENVIRONMENTAL EDUCATION (SEE)**

SBN601	Social & Environmental Education 1
SBN602	Social & Environmental Education 2

**INDIVIDUALLY SUPERVISED UNITS**

EDN602	Advanced Seminars
EDN603	Independent Study
EDN604	Dissertation (24 cps)

**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 are not included in those that have been designated as qualifying studies for the course.
- (ii) There shall be no maximum credit granted for units 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 units passed elsewhere after enrolment in the Master of Education course, provided that the candidate has previously obtained the permission of the Dean to enrol in these units.

- (v) Students may be exempted from core units based on the successful completion of previous equivalent studies provided that the candidate has previously obtained the permission of the Dean.
- (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 Dean for previously completed studies upon the recommendation of the course coordinator.

### **Supervision**

Supervision in the Master of Education course consists of two components:

- (i) the supervision of individualised coursework units; and
- (ii) the supervision of a thesis/dissertation/research project.

#### **SUPERVISION OF INDIVIDUALISED UNITS**

Certain coursework units in particular areas of interest 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 units. Subsequently, they submit this plan of study to the area of interest coordinator for approval.

#### **SUPERVISION OF A THESIS**

A Thesis or Dissertation 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 Faculty of Education Office.

##### **(i) Thesis/Dissertation**

- (a) The nature of the thesis/dissertation 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) By no later than the end of the first semester of enrolment in EDN615 or EDN604 a plan for the full program must be prepared and signed by the candidate and the principal supervisor (who shall retain copies) and be lodged along with the appropriate Ethical Clearance forms with the relevant Head of School for endorsement.
- (c) The thesis/dissertation must comprise a comprehensive, lucid and concise exposition on the context, objectives and conduct of the investigation and on its outcomes and their interpretation.

##### **(ii) Supervision**

- (a) For each candidate undertaking a thesis/dissertation a Supervisor must be appointed. An appropriate Supervisor or supervisory team should be identified early in the program when the thesis/dissertation topic is chosen. An appointment will be made by the Higher Degrees Advisory Committee on the advice of the relevant Head of School and the course 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) 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 course coordinator. Satisfactory progress for provisional candidates will consist of passing of qualifying requirements or course units at appropriate exit levels. For candidates enrolled in the coursework degree, it will mean the successful completion of the relevant coursework units.

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 units 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/dissertation, progress which is considered clearly unsatisfactory by both the Supervisor and the area of interest 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/Dissertation**

#### **SUBMISSION OF THESIS/DISSERTATION**

- (i) A candidate should submit a minimum of three copies of a thesis/dissertation 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/dissertation is otherwise acceptable to them) before final printing and binding.
- (ii) The thesis/dissertation 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/dissertation is the candidate's own work and that all other sources are correctly acknowledged;
  - (c) the thesis/dissertation has not been submitted to another institution.

#### **EXAMINATION OF THESIS/DISSERTATION**

- (i) Each thesis/dissertation will be examined by at least two examiners appointed by the Higher Degrees Advisory Committee on the recommendation of the relevant area of interest 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/dissertation. At least one of the examiners appointed will be external to the University for 48 and 36 credit point theses.
- (ii) An oral defence of a specific thesis/dissertation 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 area of interest 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/dissertation 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/dissertation within eight weeks of its receipt.
- (iv) These assessments will be presented on official forms available from the Faculty of Education Office 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 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/dissertation will be fully satisfactory except possibly for minor editorial changes;
  - (b) Resubmit – implying that the thesis/dissertation 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/dissertation 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) 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 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 changes have been completed satisfactorily.
- (viii) If a recommendation of type (b) is accepted, the Higher Degrees Advisory Committee will ask the relevant course coordinator to ensure that the candidate is requested to resubmit the thesis with any necessary corrections or modifications and that the revised thesis is forwarded to the 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.

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 units 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:** Mr Paul Shield

### **Entry Requirements**

To be eligible for admission, an applicant must:

- (i) hold an approved Bachelor Degree, 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 with at least 640K of memory for at least some parts of the course.

### **The following units are scheduled in Semester 1**

		<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
MDP532	Computer Systems in an Educational Context (core)	12	3
MDP537	Major Issues in Computer Education (core)	12	3

### **List A: Elective Units (2 to be chosen)**

MDP530	Computer Applications in Education	12	3
MDP536	Computer Graphics in Teaching	12	3
MDP507	Teaching Secondary Computer Studies	12	3
MDP533	Teaching Information Systems Modelling	12	3

## The following units are scheduled in Semester 2

MDP503	Information Systems in Education (core)	12	3
MDP506	Computer Education Project (core)	12	3

## List B: Elective Units (2 to be chosen)

MDP531	Investigations into Computer Aided Learning	12	3
MDP534	Educational Applications of Artificial Intelligence	12	3
MDP535	Educational Software Development	12	3
MDP504	School Administration using Information Technology	12	3
MDP508	Computer Use in the Primary Curriculum	12	3

Some possible sequences of study are given below. Other sequences are possible within the prerequisite structure of the course. It is suggested that those applicants with little knowledge of computing do MDP530 in their first semester.

## Possible sequences of study

MODE	SEMESTER 1	SEMESTER 2	SEMESTER 3	SEMESTER 4
Secondary Computer Studies	Computer Systems in an Educational Context; Major Issues in Computer Education	Information Systems in Education; Educational Software Development	Teaching Information System Modelling; Teaching Secondary Computer Studies	Computer Education Project; Educational Applications of Artificial Intelligence
Secondary General	Computer Applications in Education; Major Issues in Computer Education	Information Systems in Education; Investigations into Computer Aided Learning	Computer Systems in an Educational Context; Computer Graphics in Teaching	Computer Education Project; School Administration Using Information Technologies
Primary	Computer Applications in Education; Major Issues in Computer Education	Information Systems in Education; Computer Use in the Primary Curriculum	Computer Systems in an Educational Context; Computer Graphics in Teaching	Computer Education Project; School Administration Using Information Technologies
TAFE	Computer Systems in an Educational Context; Computer Applications in Education	Information Systems in Education; Educational Software Development	Computer Graphics in Teaching; Teaching Information System Modelling	Computer Education Project; Investigations into Computer Aided Learning

## ■ 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**

The Graduate Diploma in Education (Curriculum) is designed to provide opportunities for postgraduate study in specific curriculum areas of interest. At present, these interests are in the areas of Art Education, Arts in Early Childhood, Environmental Education, Human Relationships Education, Mathematics Education, Music Education, Science Education, Adult Literacy and Business Education.

		<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
<b>COURSE CORE UNITS</b>			
CUP501	Curriculum Foundations	12	3
CUP502	Curriculum Development & Innovation	12	3
<b>ELECTIVE UNITS</b>			
<b>ADULT LITERACY</b>			
LAP521	Program Development, Implementation & Assessment in Adult Literacy	12	3
LAP522	Specific Groups of Adult Literacy Learners	12	3
LAP523	Understanding Literacy – Understanding Adult Literacy	12	3
LAP524	Teaching & Learning in Adult Literacy	12	3
LAP525	Issues in Language Learning	12	3
LAP526	Independent Project in Adult Literacy	12	3
<b>ART EDUCATION</b>			
AAP501	Art Curriculum Foundations	12	3
AAP502	Art Education Program Design & Practice	12	3
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 1	12	3
AAP508	Painting 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
<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
AAB202	Acting 1	12	3
AAB203	Acting 2	12	3
AAB305	Advanced Drama Process	12	3
AAP503	Clay Materials 1	12	3
AAP504	Clay Materials 2	12	3
AAB117	Dance in Education	12	3
AAB213	Directing	12	3
AAB214	Drama Process	12	3



AAB208	Elements of Drama	12	3
AAP505	Fibre Arts 1	12	3
AAP506	Fibre Arts 2	12	3
AAP507	Painting 1	12	3
AAP508	Painting 2	12	3
AAP511	Printmaking 1	12	3
AAB119	Jazz & Folk Dance	12	3
AAB206	Stagecraft 1	12	3
AAB303	Theatre in Education	12	3
<b>BUSINESS EDUCATION</b>			
SBP506	Curriculum Issues in Business Education	12	3
SBP507	Business Organisation & Management Education 1	12	3
SBP508	Business Organisation & Management Education 2	12	3
SBP509	Issues in Legal Education	12	3
SBP510	Issues in Office Communication Technology Education	12	3
SBP511	Issues in Accounting Education	12	3
<b>ENVIRONMENTAL EDUCATION</b>			
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
<b>HUMAN RELATIONSHIPS EDUCATION</b>			
LEP515	Human Sexuality & Learning	12	3
LEP517	Ethics & Human Relationships Education	12	3
LEP518	Human Relationships Across the Lifespan	12	3
LEP519	Interpersonal & Professional Relationships 1	12	3
CPP510	Sociocultural Context of Human Relationships Education	12	3
LEP522	Interpersonal & Small Group Teaching Strategies	12	3
<b>MATHEMATICS EDUCATION</b>			
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
<b>MUSIC EDUCATION</b>			
AAP530	Curriculum Analysis & Modification	12	3
AAP531	Issues in Music Education	12	3
AAP532	Applied Studies	12	3
AAP533	Baroque & the Rococo	12	3
AAP534	Classical & Romantic Music	12	3
AAP535	Twentieth Century Music	12	3
<b>SCIENCE EDUCATION</b>			
MDP519	Mathematics, Science, Technology & Society	12	3
MDP520	Thinking & Learning in Mathematics & Science	12	3
MDP525	Science Curriculum Specialisation	12	3
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 Gail Halliwell

### 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 units 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
<b>Year 1, Semester 1</b>		
EAP520	Early Childhood Development & Learning	8
EAP521	Early Childhood Education 1	12
<b>Year 1, Semester 2</b>		
EDP510	Practicum in Early Childhood 1	8
EAP522	Early Childhood Education 2	12
EAP523	The Context of Early Childhood Education	8
<b>Year 2, Semester 1</b>		
EAP524	Research in Early Childhood	8
EAP525	Early Childhood Program Planning	12
<b>Year 2, Semester 2</b>		
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:** Professor Gerald Ashby

### 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 (Educational Management) ED23

**Location:** Kelvin Grove campus (some units may be provided at Gardens Point or Kedron Park campuses)

**Course Duration:** 2 years part-time

**Total Credit Points:** 96

**Standard Credit Points/Full-Time Semester:** 48

**Course Coordinator:** Nadine McCrea

## Entry Requirements

To be eligible an applicant must have:

- (i) an appropriate teaching/education or other relevant qualification at diploma, degree or graduate diploma level;
- (ii) at least one year experience in an educational setting.

Applicants who do not meet the requirements for normal entry may present documentary evidence of experience and abilities with the standard application form.

Applicants will provide:

- (i) an academic transcript(s) detailing units undertaken (include additional postgraduate studies).
- (ii) names and addresses, phone and fax of two professional referees who can comment on your recent qualifications and/or experiences;
- (iii) a rationale about your reasons for applying and desire to participate in the course, including a description of any relevant experiences in management/administration in an educational setting(s).

Applicants may be selected for interview prior to an offer being made.

Course Structure		Credit Points	Contact Hrs/Wk
<b>Year 1, Semester 1</b>			
EDP512	Policies & Practices in Educational Management	12	3
HRN104	Introduction to Management (Gardens Point)	12	3
<b>Year 1, Semester 2</b>			
EDP513	Educational Services Management	12	3
	One unit selected from Lists A-C	12	3
<b>Year 2, Semester 1</b>			
AYB100	Accounting for Managers (Gardens Point & Kedron Park)	12	3
	One unit selected from Lists A-C	12	3
<b>Year 2, Semester 2</b>			
EDP514	Educational Management Field Project	12	3
	One unit selected from Lists A-C	12	3
<b>Elective Units (Semester of offer)</b>			
<b>Semester 1</b>			
<b>List A: Educational Management Elective Units (Faculty of Education)</b>			
EAP500	Early Childhood Leadership & Advocacy	12	3
EDP515	Human Resource Management in Education	12	3
EDB490	Research Methods in Education	12	3
CUB444	Educators & the Law	12	3
<b>List B: Business Elective Units (Faculty of Business)*</b>			
HRB135	Small Business Mgt (Gardens Point & Kedron Park)	12	3
HRN108	People in Organisations (Gardens Point)	12	3
MKB140	Principles of Marketing (Gardens Point & Kedron Park)	12	3
<b>Semester 2</b>			
<b>List A: Educational Management Elective Units (Faculty of Education)</b>			
CPB440	The Community & School Administration	12	3
CPB445	Career/Life Patterns of Women Teachers	12	3
CUB444	Educators & the Law	12	3

\* Only one List B unit can be chosen from the entire course.

EAB440	Working with Parents & Community	12	3
EDB490	Research Methods in Education	12	3

**List B: Business Elective Units (Faculty of Business)\***

HRN105	Labour - Management Relations (Gardens Point)	12	3
HRB135	Small Business Mgt (Gardens Point & Kedron Park)	12	3
MKP102	Entrepreneurship (Kedron Park)	12	3

**List C: Other Elective Unit**

One unit may be negotiated with the course coordinator.

## ■ Graduate Diploma in Education (Primary Teaching) (ED31)

**Location:** Kelvin Grove campus

**Course Duration:** 1 year full-time

**Total Credit Points:** 96

**Standard Credit Points/Full-Time Semester:** 48

**Course Coordinator:** Dr Lyn English

### 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 unit if certain requirements are met.

Course Structure		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
LAP440	Language & Literacy 1	8	3
LEP430	Human Development & Learning	8	3
MDP450	Mathematics, Science & Technology 1	12	4
<b>Year 1, Semester 2</b>			
CUP421	Professional & Curriculum Studies 2	12	3
CPP431	The Sociocultural Context of Contemporary Educational Issues & Practice	8	4
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 (minimum) part-time or external

**Total Credit Points:** 96

**Standard Credit Points/Full-Time Semester:** 48

**Course Coordinator:** Mr Barrie O'Connor

### Entry Requirements

To be eligible for admission, an applicant must:

- (i) hold an appropriate degree or Diploma of Teaching (or equivalent); and
- (ii) have a minimum of two years successful teaching experience; and
- (iii) be recommended by their employing authority as having general personal suitability to fulfil the resource/ support teacher duties.

### Full-Time Course Structure

		<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
<b>Year 1, Semester 1</b>			
LEP523	Learners with Special Needs	12	3
LEP524	Developing Relationships & Groups	12	3
LEP525	Remediating Learning Difficulties	12	3
MDP529	Assessment & Remediation in Mathematics	12	3

### Year 1, Semester 2

CPP501	Sociocultural Issues in Education	12	3
CUP503	Curriculum: Learners with Special Needs	12	3
EDB490	Research Methods in Education	12	3
LEP526	Study Skills, Literacy & Learning	12	3

### Part-Time (Evening and External) Structure

Unit availability for evening and external students occurs in a two-year cycle to permit course completion in minimum time. Those not pursuing course completion in minimum time may not gain access to required units until these recur in the advertised cycle.

		<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
<b>Year 1, Semester 1</b>			
LEP524	Developing Relationships & Groups	12	3
LEP525	Remediating Learning Difficulties	12	3
<b>Year 1, Semester 2</b>			
MDP529	Assessment & Remediation in Mathematics	12	3
LEP526	Study Skills, Literacy & Learning	12	3
<b>Year 2, Semester 1</b>			
CUP503	Curriculum: Learners with Special Needs	12	3
EDB490	Research Methods in Education	12	3
<b>Year 2, Semester 2</b>			
CPP501	Sociocultural Issues in Education	12	3
LEP523	Learners with Special Needs	12	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 Units, 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 unit 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 unit areas such as Drama and Music.

### Full-Time Course Structure

		Credit Points	Contact Hrs/Wk
<b>Semester 1</b>			
CPP410	Understanding Education A	9	3
EDP450	Teaching Practice A	6	
	Curriculum & Teaching Studies A (One Unit Selected from Group A)	24	6
LEP410	Human Development & Learning A	9	3
<b>Semester 2</b>			
CUP411	Understanding Education B	9	3
EDP451	Teaching Practice B	6	
	Curriculum & Teaching Studies B (One Unit Selected from Group B)	12	3
	Curriculum & Teaching Studies C (One Unit Selected from Group C)	12	3
LEP411	Human Development & Learning B	9	3

### Curriculum and Teaching Studies

Group A units are prerequisites for the Group B units in the same block. Together, A and B units form the Curriculum major. Students take one Group A unit and:

- ❑ two Group B units in the same block, or
- ❑ one Group B unit in the same block and one Group C unit, or
- ❑ one Group B unit in the same block and one Group B unit for which they are qualified from a different block.

### Group A Units

AAP420	The Arts CTS A
HMP420	Physical Education CTS A
LAP420	Communication CTS A
LAP430	Languages other than English (LOTE) CTS A
MDP420	Computer Education CTS A
MDP430	Mathematics CTS A
MDP440	Science CTS A (Full-Time)
PUP420	Home Economics CTS A
SBP420	Business Education CTS A
SBP430	Social Science CTS A

### Group B Units

AAP421	Dance CTS B
AAP422	Drama CTS B
AAP423	Music CTS B
AAP424	Visual Arts CTS B
HMP421	Physical Education CTS B
PUB329	Foundations of Health Education & Health Behaviour
LAP421	English CTS B
LAP422	Film & Television 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
MDP421	Computer Education CTS B
MDP431	Mathematics 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
PUP421	Home Economics CTS B
SBP421	Accounting/ Business Management CTS B
SBP422	Economics CTS B
SBP423	Legal Studies CTS B
SBP424	Office Automation CTS B
SBP431	Geography CTS B
SBP432	History CTS B

### Group C Units

For students who take a Group C unit, 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	English CTS C*
LAP424	Teaching English as a Second Language CTS C
LAP437	LOTE in the Primary School 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

\* These units are incompatible with the Group A unit in the same field.



Part-Time Course Structure (Science only)		Credit Points	Contact Hrs/Wk
<b>Year 1, Semester 1</b>			
LEP410	Human Development & Learning A	9	3
MDP449	Science Curriculum & Teaching Studies A	24	6
EDP450	Teaching Practice A	6	
<b>Year 1, Semester 2</b>			
CPP410	Understanding Education A	9	3
MDP449	Science Curriculum & Teaching Studies A (continued)	(24)	(6)
EDP450	Teaching Practice A (continued)	(6)	
<b>Year 2, Semester 1</b>			
LEP411	Human Development & Learning B	9	3
MDP441	Science Curriculum & Teaching Studies B	12	3
EDP451	Teaching Practice B	6	
<b>Year 2, Semester 2</b>			
CUP411	Understanding Education B	9	3
	Curriculum & Teaching Studies C - strand	12	

## ■ Graduate Diploma in Education (Teacher-Librarianship) (ED25)

**Location:** Kelvin Grove campus

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

**Total Credit Points:** 96

**Standard Credit Points/Full-Time Semester:** 48

**Course Coordinator:** Mr Geoff Chapman

### Entry Requirements:

To be eligible for admission, an applicant must:

- hold an appropriate degree, diploma or equivalent qualification, including an approved teaching qualification; and
- have had proven satisfactory teaching experience, normally at least three years in the last ten; and
- have personal suitability.

**Note:** Students will be interviewed in person or by telephone.

### Professional Recognition

The course is recognised by the Australian Library and Information Association as a specialist professional qualification.

### Special Course Requirements

The course is offered full-time or part-time (on campus and external). It is possible for students to complete the entire course in one mode or a combination of modes.

To meet course requirements students must complete satisfactorily six compulsory core units and two elective units.

All students will undertake the fieldwork components of the first four core units. Activities, timing and placements will be negotiated according to personal and geographical circumstances.

**Course Structure**  
**Full-Time; Part-Time**  
**(during the day and/or evening) or External.**

**Credit  
Points**

**Contact  
Hrs/Wk**

The course comprises six core units and two elective units.

### Semester 1

LAP501	Foundations of Teacher-Librarianship	12	3 (Evening)
LAP502	Curriculum & Related Resources	12	3 (Day)
LAP503	Literature & Literacy: Resources & Strategies	12	3 (Day)
LAP504	School Library Resources: Organisation & Access	12	3 (Evening)
LAP505	Communication & Management in School Library Resource Centres (Prerequisite LAP501)	12	External
LAP506	Information Services for Schools (Prerequisite LAP502)	12	External*

### Elective Units

LAP507	Australian Literature for Young People	(List A)	12	External
LAP509	Directed Study	(List C)	12	
LAP512	Literature for Young People	(List A)	12	External
LAP513	Media Literacy & the School	(List B)	12	External

### Semester 2

#### Core Units

LAP501	Foundations of Teacher-Librarianship	12	External*
LAP502	Curriculum & Related Resources	12	External
LAP503	Literature & Literacy: Resources & Strategies	12	3 (Evening)
LAP504	School Library Resources: Organisation & Access	12	External*
LAP505	Communication & Management in School Library Resource Centres (Prerequisite LAP501)	12	External
LAP506	Information Services for Schools (Prerequisite LAP502)	12	External*

### Elective Units

LAP509	Directed Study	(List C)	12	
LAP512	Literature for Young People	(List A)	12	External
LAP516	Special Seminar: Canadian Books for Young People	(List C)	12	3 (Evening)
LAP517	Storytelling	(List A)	12	3 (Evening)
LAP518	Visual Literacy & Resource Design	(List B)	12	External

\* Compulsory Study School

### Elective Unit List

Elective units provide opportunities for students to extend their competence in specialised areas falling within overall course objectives.

These elective units are offered over four semesters:

#### 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 units from the Graduate Diploma in Library Science and from other University courses as approved by the course coordinator.

## ■ Graduate Diploma in Education (Teacher-Librarianship) (ED27)

**Note:** This course applies to those students who commenced the Graduate Diploma in Education (Teacher-Librarianship) prior to 1992. The Core Units will not be offered after 1993.

**Location:** Kelvin Grove campus

**Course Coordinator:** Mr Geoff Chapman

**Core Units (Compulsory)**

LAP901	Resource Service Administration	10	External
LAP902	Reference Services & Materials	10	External*
LAP903	Collection Development for Learning	10	External

\* Semester 1: For students who live in the greater Brisbane area and can attend six compulsory evening sessions. Semester 2: Compulsory study school during the September school vacation.

**Elective Units**

Two elective units to be taken from the Elective Unit List in ED25.

## ■ 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:** Dr John Lidstone

**Entry requirements**

Applicants must possess:

- (i) a diploma or equivalent; and
- (ii) have at least one year of teaching experience.

**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 units (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 units 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 Units**

LAB490	Recent Developments in Language/Reading	12
MDB490	Topics in Teaching Mathematics	12
PLUS		

##### **Part 2: Two of the following units 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 Units**

CPB493	Secondary Education Today	12
CUB490	Introduction to Curriculum Construction	12
PLUS		

##### **Part 2: Two of the following units 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 units of an Upgrading course will be eligible for transfer to the final eight units of the Bachelor of Education (In-Service) course irrespective of the nature of the units 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 eight (8) units from the following areas:

#### STUDIES IN EDUCATION

CPB420	Contemporary Issues in Education*	12
	PLUS	
	at least one (1) other unit from units listed under Studies in Education	

#### CURRICULUM STUDIES

CUB410	Teachers & the Curriculum+	12
	PLUS	
	at least one (1) other unit from units listed under Curriculum Studies	

#### SPECIALIST STUDIES

Two units to be studied

OR

Specialist Studies Plus Studies in Teaching/Learning Process

One unit from Specialist Studies PLUS one unit from Studies in Teaching/Learning Process.

#### OTHER UNITS

Two units from any of the following lists:

Studies in Education

Curriculum Studies

Specialist Studies

Studies in the Teaching/Learning Process

		Credit Points	Contact Hrs/Wk
STUDIES IN EDUCATION			
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
CURRICULUM STUDIES			
AAB410	Art Curriculum Design & Development	12	3
AAB411	Drama Across the Curriculum	12	3
CUB410	Teachers & 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

\* This unit is compulsory and MUST be studied in the first semester of enrolment.

+ This unit is compulsory and MUST be studied in either first or second semester of enrolment.

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

The following Graduate Diploma in Education (Curriculum) unit may also be selected:

EAP553	Music in Early Childhood Education	12	3
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## **SPECIALIST STUDIES**

### **ACADEMY OF THE ARTS, FACULTY OF ARTS**

AAB444	Visual Arts of Asia	12	3
AAB447	Drawing 1	12	3
AAB449	Educational Drama	12	3
AAB453	Computer Graphics 1	12	3
AAB454	Sculpture 1	12	3
AAB711	Australian Art	12	3
AAB712	Contemporary Art Issues	12	3
AAP503	Clay Materials 1	12	3
AAP505	Fibre Arts 1	12	3
AAP507	Painting 1	12	3
AAP509	Photographic Media 1	12	3
AAP511	Printmaking 1	12	3

The following Graduate Diploma in Education (Curriculum) units may also be selected:

AAP535	Twentieth Century Music	12	3
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### **SCHOOL OF ACCOUNTANCY FACULTY OF BUSINESS**

AYB214	Company Accounting for Educators	12	3
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### **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 COMMUNICATION AND ORGANISATIONAL STUDIES FACULTY OF BUSINESS**

COB156	Advanced Secretarial Studies	12	3
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### **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	Recent Developments in the Teaching of Writing	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
LEB448	Working in Teams	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

The following Graduate Diploma in Education (Computer Education) units may also be selected:

MDP503	Information Systems & Education	12	3
MDP532	Computer Systems in an Educational Context	12	3

The following Graduate Diploma in Education (Curriculum) units may also be selected:

MDP516	Diagnosis & Evaluation in Mathematics Education	12	3
MDP517	Foundations of Mathematics in Education	12	3
MDP518	Historical Topics for the Mathematics Classroom	12	3
MDP519	Mathematics, Science Technology & Society	12	3
MDP526	Resources in Science Education	12	3
MDP527	Science Concept Development & Learning	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
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## SCHOOL OF SOCIAL SCIENCE,

### FACULTY OF ARTS

SSB802	Technology & Culture	12	3
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## STUDIES IN THE TEACHING/LEARNING PROCESS (OPTIONAL)

CUB431	Classroom Management: Models & Practice	12	3
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CUB432	Teachers & Isolated Learners	12	3
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CUB433	Teaching Strategies	12	3
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CUB434	Supervision of Teaching	12	3
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LEB430	Creativity in Problem Solving	12	3
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LEB431	Innovative Teaching Methods	12	3
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MDB430	Teaching Mathematics Problem Solving	12	3
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## FACULTY OF EDUCATION UNITS

EDB440	Independent Study	12	3
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(Available both semesters). Check the *Independent Study Guide* available from Student Affairs, Kelvin Grove campus, telephone (07) 864 3408.

EDB490	Research Methods in Education	12	3
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## ■ Bachelor of Education (Secondary) (ED50)

**Location:** Kelvin Grove campus (some unit 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

### Course Structure\*

(Students complete 192 credit points of professional studies and 192 credit points of discipline studies.)

		Credit Points	Contact Hrs/Wk
<b>Year 1, Semester 1</b>			
	Discipline Studies X +	24	
	Discipline Studies Y+*	24	
<b>Year 1, Semester 2</b>			
EDB321	Education in Context	12	3
EDB324	Language, Technology & Education	12	3
	Discipline Studies X	12	
	Discipline Studies Y	12	
<b>Year 2, Semester 1</b>			
EDB322	Human Development & Education	12	3
EDB323	Introduction to Professional Practice in Education	12	3

\* See *Transaction Program* section for structure to be followed by second, third, and fourth year students in 1993.

+ See *Discipline Studies* section for explanation of discipline studies X and Y.



## 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	
PROFESSIONAL STUDIES	EDUCATION STUDIES		Education in Context (12) Language Technology & Education (12)	Introduction to Professional Practice (12) Human Development & Education (12)		Psychology of Learning & Teaching (12)		Sociological & Philosophical Analysis (12) Education Studies Elective Unit (12) Education Studies Elective Unit (12)		96
	PROFESSIONAL STUDIES		Field Experience (2 weeks) +	Field Experience (2 weeks) +		Professional Practice 1 (4 weeks PT) (12) Field Experience (1 week)+		Professional Practice 2 (4 weeks PT) (12) Field Experience (1 week)+	Professional Practice 3 (4 weeks PT) (12) Professional Practice 4 (2 weeks PT) (12)#	48
	CURRICULUM STUDIES					Curriculum Studies 1X (12) Curriculum Studies 1Y (12)			Curriculum Studies 2X (12) Curriculum Studies 2Y (12)	48
DISCIPLINE/CONTENT STUDIES		Discipline Studies X (24) Discipline Studies Y (24)	Discipline Studies X (12) Discipline Studies Y (12)	Discipline Studies X (12) Discipline Studies Y (12)	Discipline Studies X (24) Discipline Studies Y (24)		Discipline Studies X/Y/Z (48)			192
TOTAL		48	48	48	48	48	48	48	48	384

\* Second, third and fourth year students in 1993 follow a modified structure (see transition program).

+ Credit points for field experience come from the core education studies in corresponding semesters.

# This unit includes a component of campus-based study.

	Discipline Studies X	12	3
	Discipline Studies Y	12	3
<b>Year 2, Semester 2</b>			
	Discipline Studies X	24	
	Discipline Studies Y	24	
<b>Year 3, Semester 1</b>			
EDB325	Psychology of Learning & Teaching	12	3
	Curriculum Studies 1X*	12	3
	Curriculum Studies 1Y*	12	3
EDB311	Professional Practice 1	12	
<b>Year 3, Semester 2</b>			
	Discipline Studies X, Y or Z +	48	
<b>Year 4, Semester 1</b>			
EDB326	Sociological & Philosophical Analysis of Educational Practice	12	3
EDB312	Professional Practice 2	12	
	Education Studies Elective Unit (see Table 1)	12	3
	Education Studies Elective Unit (see Table 1)	12	3
<b>Year 4, Semester 2</b>			
EDB313	Professional Practice 3	12	
EDB314	Professional Practice 4	12	
	Curriculum Studies 2X	12	3
	Curriculum Studies 2Y	12	3

### Table 1: Education Studies Elective Units

(Students select one unit from Group A and one unit from Group B.)

#### Group A: Professional Work of Educators

CPB330	Aboriginal & Torres Strait Islander Education Policy	12	3
CPB331	Asian Culture & Education	12	3
CPB332	Education & the Community Context	12	3
CPB333	Policy Analysis for Educators	12	3
CPB334	Powerful Teachers, Powerful Students	12	3
CPB335	Teacher as Researcher	12	3
CUB330	Education Law & the Beginning Teacher	12	3
EDB330	Independent Study #	12	3
EDB331	Learning/Teaching Environments	12	3
EDB490	Research Methods in Education	12	3
LEB330	Educational Counselling	12	3
MDB300	Teaching in the Information Age	12	3

#### Group B: Difference and Diversity Among Learners

CPB336	Education & Cultural Diversity	12	3
CPB337	Gender & Education	12	3
CPB338	Identifying & Responding to Student Differences	12	3
CPB339	Teaching Aboriginal & Torres Strait Islander Students	12	3
EDB330	Independent Study#*	12	3
EDB333	Developing Cooperative Environments for Diverse Learners' Needs	12	3
EDB334	Gifted Learners	12	3
LEB331	Mainstreaming Children with Low Incidence Disabilities	12	3
LEB332	Teaching Exceptional Students	12	3

\* Students complete two sets of curriculum units corresponding to the two discipline areas selected from Table 4. The sets of curriculum studies are shown in Table 2.

+ Students may take up to 24 credit points in a discipline area other than their two selected (X, Y) teaching areas. These are labelled area Z.

# Only one independent study is permitted.

**Table 2: Curriculum Studies X and Y**

AAB412	Art Curriculum Studies 1	12	3
AAB413	Art Curriculum Studies 2	12	3
AAB414	Drama Curriculum Studies 1	12	3
AAB415	Drama Curriculum Studies 2	12	3
HMB310	Physical Education Curriculum Studies 1	12	3
HMB370	Physical Education Curriculum Studies 2	12	3
HMB340	Physical Education Curriculum Studies 1B	12	3
HMB380	Physical Education Curriculum Studies 2B	12	3
HMB390	Health Education Curriculum Studies 1	12	3
HMB395	Health Education Curriculum Studies 2	12	3
LAB325	English Curriculum Studies 1	12	3
LAB326	English Curriculum Studies 2	12	3
LAB327	Film & Media Curriculum Studies 1	12	3
LAB328	Film & Media Curriculum Studies 2	12	3
LAB329	LOTE Curriculum Studies 1	12	3
LAB330	LOTE Curriculum Studies 2	12	3
MDB325	Biology Curriculum Studies 1	12	3
MDB326	Biology Curriculum Studies 2	12	3
MDB327	Chemistry Curriculum Studies 1	12	3
MDB328	Chemistry Curriculum Studies 2	12	3
MDB329	Computing Curriculum Studies 1	12	3
MDB330	Computing Curriculum Studies 2	12	3
MDB331	Earth Science Curriculum Studies 1	12	3
MDB332	Earth Science Curriculum Studies 2	12	3
MDB333	Mathematics Curriculum Studies 1	12	3
MDB334	Mathematics Curriculum Studies 2	12	3
MDB335	Physics Curriculum Studies 1	12	3
MDB336	Physics Curriculum Studies 2	12	3
MDB337	Science Curriculum Studies 1	12	3
MDB338	Science Curriculum Studies 2	12	3
PUB312	Home Economics Curriculum Studies 1	12	3
PUB322	Home Economics Curriculum Studies 2	12	3
SBB325	Accounting/Bus Management Curriculum Studies 1	12	3
SBB326	Accounting/Bus Management Curriculum Studies 2	12	3
SBB327	Communication Technology Curriculum Studies 1	12	3
SBB328	Communication Technology Curriculum Studies 2	12	3
SBB329	Economics Curriculum Studies 1	12	3
SBB330	Economics Curriculum Studies 2	12	3
SBB331	Geography Curriculum Studies 1	12	3
SBB332	Geography Curriculum Studies 2	12	3
SBB333	History Curriculum Studies 1	12	3
SBB334	History Curriculum Studies 2	12	3
SBB335	Legal Studies Curriculum Studies 1	12	3
SBB336	Legal Studies Curriculum Studies 2	12	3
SBB337	Social Science Curriculum Studies 1	12	3
SBB338	Social Science Curriculum Studies 2	12	3

**DISCIPLINE STUDIES****(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 3.

**Table 3: Entry into Course Streams**

<b>Course Stream</b>	<b>Discipline Areas</b>
Art	Art
Business Education	Accounting/Business Management Communication Technology Economics Legal Studies
Communication	English Film & Media Studies French German Indonesian Japanese
Drama	Drama
Home Economics	Home Economics
Physical Education	Physical Education
Science/Mathematics/Computing	Biology Chemistry Computing Earth Science Mathematics Physics Science Studies
Social Science	Geography History Social Science

Studies are also available in Health Education.

The teaching areas are divided into Group X and Group Y as shown in Table 4. Students select one area from Group X and one from Group Y. Students may select up to 24 credit points from units in Group Z.

**Table 4: Possible Combinations of Teaching Areas**

<b>Group X</b>	<b>Group Y</b>	<b>Group Z</b>
Accounting/Business Management	Accounting/Business Management	Units listed under X and Y (excluding the two teaching areas) plus units from other suitable QUT courses.
Art	Biology	
Communication	Chemistry*	
Technology	Earth Science*	
Computing	Economics	
Drama	English	
English	Film & Media	
Home Economics	French	
Mathematics*	Geography	
Physical Education	German	
Science Studies*	Health Education	
Social Science	History	
	Indonesian	
	Japanese	
	Legal Studies	
	Mathematics	
	Physics*	
	Science Studies	

**Note:**

- Where the same teaching area is listed in both Groups X and Y (eg. English), it may only be selected once.
- There may be limited places in some disciplines as a second teaching area.
- Students in the second or the third year of the course will continue with teaching area combinations outlined in 1991/92.
- Under certain conditions students may be permitted to complete a double major in physical education.
- The teaching areas marked with an \* may only be selected by students studying both discipline strands at the Gardens Point campus.

**ACCOUNTING/BUSINESS MANAGEMENT****Minor (72 credit points)**

AYB101	Computerised Accounting Systems	12	4
AYB110	Accounting	12	4
AYB111	Financial Accounting	12	4
BSB102	Management & Organisation	12	3
FNB122	Management Accounting	12	4
ISB892	Business Computing	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
BSB102	Management & Organisation	12	3
FNB122	Management Accounting	12	4
HRB135	Small Business Management	12	3
ISB892	Business Computing	12	4

**Extended Major (120 credit points)**

ALB110	Business Law	12	4
	OR		
FNB111	Finance 1	12	4
AYB101	Computerised Accounting Systems	12	4
AYB110	Accounting	12	4
AYB111	Financial Accounting	12	4
AYB112	Company Accounting	12	4
AYB210	Auditing	12	4

BSB102	Management & Organisation	12	3
FNB122	Management Accounting	12	4
HRB135	Small Business Management	12	3
ISB892	Business Computing	12	4

## ART

### Minor (72 credit points)

AAB052	Signs & Meanings	12	3
AAB421	Foundation Art Studies	12	4
AAB711	Australian Art	12	3

Plus three of the following elective units selected from:

AAB422	Computer Graphics	12	3
AAB454	Sculpture 1	12	3
AAB461	Visual Arts Design 1	12	3
AAP503	Clay Materials 1	12	3
AAP505	Fibre Arts 1	12	3
AAP507	Painting 1	12	3
AAP509	Photographic Media 1	12	3
AAP511	Printmaking 1	12	3

### Major (96 credit points)

As for the minor program plus 24 additional credit points.

### Extended Major (120 credit points)

As for the major program plus 24 additional credit points.

More advanced levels of study in any of these units may be negotiated with the art subject coordinator.

## Advanced Level Units

AAB423	Computer Graphics 2	12	3
AAB455	Sculpture 2	12	3
AAB462	Visual Arts Design 2	12	3
AAP504	Clay Materials 2	12	3
AAP506	Fibre Arts 2	12	3
AAP508	Painting 2	12	3
AAP510	Photographic Media 2	12	3
AAP512	Printmaking 2	12	3

## BIOLOGY

### Minor (72 credit points)

LSB122	Biology 1	12	5
LSB242	Human Anatomy & Physiology	12	5
LSB312	Marine Studies	12	5
SCB202	Science Technology & Society	12	4

Plus two of the following elective units selected in consultation with the BEd science subject coordinator. No more than one non-Biology elective unit may be selected.

CHB182	Chemistry 1	12	5
LSB222	Biology 2	12	5
LSB232	Cell Biology	12	5
LSB302	Animal Biology 1	12	5
LSB308	Biochemistry 3	12	5
LSB322	Plant Biology	12	5
LSB328	Microbiology 3	12	5
LSB332	Plant Physiology 1	12	5
LSB352	Population Ecology	12	5
LSB362	Quantitative Methods in Life Science	12	5
LSB402	Animal Biology 2	12	5
LSB412	Applied Ecology A	12	5
LSB422	Applied Ecology B	12	5
LSB432	Genetics	12	5

LSB568	Electron Microscopy	12	5
MAB237	Statistics	12	5

### Major (96 credit points)

As for the minor program plus 24 additional credit points selected in consultation with the BEd science subject coordinator.

### Extended Major (120 credit points)

As for the major program plus 24 additional credit points selected in consultation with the BEd science subject coordinator.

## CHEMISTRY

### Minor (72 credit points)

CHB182	Chemistry 1	12	5
CHB282	Chemistry 2	12	5
CHB402	Chemicals in Society	12	5
SCB202	Science Technology & Society	12	4

Plus two of the following elective units selected in consultation with the BEd science subject coordinator:

CHB313	Analytical Chemistry 3	12	5
CHB333	Inorganic Chemistry 3	12	5
CHB352	Organic Chemistry 3	12	5
CHB372	Physical Chemistry 3	12	5
CHB423	Chemical Technology 4	12	5
ESB452	Geochemistry	12	5
CHB453	Organic Chemistry 4	12	5
CHB473	Physical Chemistry 4	12	5
CHB643	Applied Spectroscopy	12	5
LSB308	Biochemistry 3	12	5
PHB122	Physics 1	12	5

### Major (96 credit points)

As for the minor program plus 24 additional credit points selected in consultation with the BEd science subject coordinator.

### Extended Major (120 credit points)

As for the major program plus 24 additional credit points selected in consultation with the BEd science subject coordinator.

## COMMUNICATION TECHNOLOGY

### Minor (72 credit points)

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

### Major (96 credit points)

As for the minor program plus the following:

COB124	Office Transcription A	12	3
	OR		
COB125	Office Transcription B	12	3
COB126	Supervision & Administration	12	3

## COMPUTING

### Minor (72 credit points)

CSB860	Computer Systems for Teachers	12	3
ISB863	Database Theory & Techniques in Educational Contexts	12	3
ISB865	Information System Modelling in Educational Contexts	12	3

ISB866	Artificial Intelligence Applications for Education	12	3
	OR		
MDB377	Project Planning & Implementation for Educational Purposes	12	3
MDB375	Computing Tools for Educators	12	3
MDB345	Software Development for Educational Contexts	12	3

### Major (96 credit points)

As for the minor program plus the following:

CSB087	Programming Languages for Teachers	12	3
ISB866	Artificial Intelligence Applications for Education	12	3
	OR		
MDB377	Project Planning & Implementation for Educational Purposes	12	3

### Extended Major (120 credit points)

As for the major program plus an additional 24 credit points selected from the Faculty of Information Technology or Faculty of Science, School of Mathematics, in consultation with the BEd computing subject coordinator.

### DRAMA

#### Minor (72 credit points)

AAB202	Acting 1	8	4
AAB204	Voice & Movement 1	8	4
AAB205	Voice & Movement 2	8	4
AAB208	Elements of Drama	12	4
AAB211	Development of Theatre 1	8	3
AAB214	Drama Process	8	3
AAB225	Practicum 1	12	
AAB302	Children's Play to Performance	8	3

### Major (96 credit points)

As for the minor program plus the following:

AAB304	Forming Knowledge	8	3
AAB305	Advanced Drama Process	8	4

Plus one other (8 credit point) elective unit selected in consultation with the BEd drama subject coordinator.

### Extended Major (120 credit points)

As for the major program plus the following:

AAB212	Development of Theatre 2	8	3
AAB220	Theatre Studies Option	8	3
AAB303	Theatre in Education	8	3

### EARTH SCIENCE

#### Minor (72 credit points)

ESB122	Earth Science 1	12	5
ESB222	Earth Science 2	12	5
SCB202	Science, Technology & Society	12	5
SCB222	Exploration of the Universe	12	5

Plus two of the following elective units selected in consultation with the BEd science subject coordinator.

CHB182	Chemistry 1	12	5
ESB312	Mineralogy & Optical Mineralogy	12	5
ESB342	Structural Geology	12	5
ESB362	Economic Mineral Deposits	12	5
ESB392	Field Techniques & Studies	12	5
ESB422	Sedimentology & Stratigraphy	12	5
ESB442	Geomorphology	12	5



ESB452	Geochemistry	12	5
ESB462	Lithology	12	5
ESB502	Pacific Marine Geology	12	5
ESB512	Igneous & Metamorphic Petrology	12	5
ESB562	Mineral Exploration	12	5
ESB592	Geological Field Excursions	12	5
ESB612	Earth Resources Management	12	5
ESB622	Engineering Geology	12	5
ESB662	Mining Geology & Feasibility	12	5
ESB672	Geology of Fossil Fuels	12	5

### Major (96 credit points)

As for the minor program plus an additional 24 credit points selected in consultation with the BEd science subject coordinator.

### Extended Major (120 credit points)

As for the major program plus an additional 24 credit points selected in consultation with the BEd science subject coordinator.

## ECONOMICS

### Minor (72 credit points)

EPB114	Economic Development	12	3
EPB132	International Trade & Finance	12	3
EPB140	Macroeconomics	12	3
EPB150	Microeconomics	12	3
EPB163	Research & Survey Methods	12	3
EPB171	Economic Analysis & Policy	12	3

### Major (96 credit points)

As for the minor program plus the following:

EPB106	Australian Economic History	12	3
EPB111	Comparative Economic Systems	12	3

## ENGLISH

### Minor (72 credit points)

HUB603	Texts & Interpretations	12	3
HUB710	Australian Literary Studies	12	3
LAB320	Studies in Language	12	3
MJB140	The Media & Society	12	3

Plus two of the following elective units:

HUB625	American Literature	12	3
HUB701	Aboriginal & Torres Strait Islander Literature	12	3
HUB711	Australian Women's Writing	12	3
HUB712	Australian Children's & Adolescent Fiction	12	3
HUB724	Nineteenth Century English Literature & Culture	12	3
HUB725	Twentieth Century English Literature & Culture	12	3
HUB726	European Literature & Social Change	12	3
HUB727	European Literature & Identity	12	3
HUB728	Popular Literature	12	3
HUB729	Shakespeare in the Modern World	12	3
HUB730	Women's Writing & Representation	12	3
LAB321	Writing Workshop	12	3
LAB322	Literature in Teaching	12	3
LAB323	Young Adult Literature	12	3

### Major (96 credit points)

As for the minor program plus an additional 24 credit points.

### Extended Major (120 credit points)

As for the major program plus an additional 24 credit points.

**FILM AND MEDIA****Minor (72 credit points)**

MJB100	Media Production	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

**Major (96 credit points)**

As for the minor program plus:

MJB105	Film & Society	12	3
MJB143	Australian Film	12	3

**Extended Major (120 credit points)**

As for the major program plus two additional elective units from the following:

MJB106	Screen Adaption	12	3
MJB107	Gender & the Media	12	3
MJB110	Asian & Latin American Cinema	12	3
MJB144	European Cinema	12	3
MJB147	Film Genres	12	3
MJB149	Film History	12	3

**FRENCH****Minor (72 credit points)**

HUB670	Introductory French 1 AND	12	3
HUB671	Introductory French 2	12	3
	OR		
HUB672	French Language & Culture 1 AND	12	3
HUB673	French Language & Culture 2	12	3
	PLUS		
HUB674	French Language & Culture 3	12	3
HUB675	French Language & Culture 4	12	3
HUB676	French Language & Culture 5	12	3
HUB677	French Language & Culture 6	12	3

**Major (96 credit points)**

As for the minor program plus 24 credit points from the following:

HUB647	Intensive In-Country Language Studies	24	
HUB720	Approaches to European Studies	12	3
HUB723	Europe in the Twentieth Century	12	3

**Extended Major (120 credit points)**

As for the major program plus 24 additional credit points.

**GEOGRAPHY****Minor (72 credit points)**

HUB201	People & the Natural Environment	12	3
HUB202	Introduction to Geography	12	3
HUB204	Australian Geographical Studies	12	3
HUB207	Environmental Hazards	12	3
HUB209	Resources Planning & Development	12	3

plus one of the following elective units:

HUB611	Indonesian Social Geography	12	3
HUB612	Modern Indonesian Studies	12	3
HUB613	Social Geography of Thailand	12	3
HUB614	Contemporary Thailand	12	3

**Major (96 credit points)**

As for the minor core program plus three of the following elective units.

HUB611	Indonesian Social Geography	12	3
HUB612	Modern Indonesian Studies	12	3
HUB613	Social Geography of Thailand	12	3
HUB614	Contemporary Thailand	12	3
HUB617	Women, Aid & Development	12	3
HUB684	Making Space: Women's Environments	12	3

**GERMAN****Minor (72 credit points)**

HUB735	Introductory German 1 AND	12	3
HUB736	Introductory German 2	12	3
	OR		
HUB737	German Language & Culture 1 AND	12	3
HUB738	German Language & Culture 2	12	3
	PLUS		
HUB739	German Language & Culture 3	12	3
HUB740	German Language & Culture 4	12	3
HUB741	German Language & Culture 5	12	3
HUB742	German Language & Culture 6	12	3

**Major (96 credit points)**

As for the minor program plus 24 credit points from the following:

HUB647	Intensive In-Country Language Studies	24	
HUB720	Approaches to European Studies	12	3
HUB723	Europe in the Twentieth Century	12	3

**Extended Major (120 credit points)**

As for the major program plus 24 additional credit points.

**HEALTH****Minor (72 credit points)**

HMB305	Personal Health	12	3
HUB007	Health & Ethics	12	3
PUB327	Health Issues in Australia	12	3
PUB329	Foundations of Health Education & Health Behaviour	12	3
SSB806	Interpersonal & Group Processes	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
PUB338	Substance Use in Contemporary Society	12	3
SSB807	Human Sexuality	12	3
SSB989	Health & the Life-Cycle	12	3

**HISTORY****Minor (72 credit points)**

HUB615	Modern China & Japan	12	3
	OR		
HUB616	Modern India & South-East Asia	12	3
HUB690	Themes in Australian Studies	12	3
HUB722	Foundations of Modern Europe	12	3
	OR		
HUB723	Europe in the Twentieth Century	12	3

Plus three of the following elective units:

HUB618	Asian Women: Tradition, Colonisation & Revolution	12	3
HUB619	Pacific Culture Contact	12	3
HUB621	North American Studies	12	3
HUB622	Latin American Studies	12	3
HUB623	Asia/Pacific Political Studies	12	3
HUB691	Women's Past - Women's History to Feminist Historiography	12	3
HUB692	Conspiracy & Dissent in Australian History	12	3
HUB693	Australian Race Relations	12	3
HUB700	Aboriginal & Torres Strait Islander Culture Studies	12	3
HUB721	The Classical World	12	3

### Major (96 credit points)

As for the minor program plus 24 additional credit points.

### HOME ECONOMICS

#### Minor (72 credit points)

PUB313	Design	12	3
PUB317	Management & Consumer Studies	12	4
PUB319	Food & Nutrition	12	6
PUB321	Textiles 1	12	6
PUB323	Home Economics: Social Foundations	12	4
PUB325	Shelter Studies	12	4

### Major (96 credit points)

As for the minor program plus two of the following elective units.

PUB331	Shelter Design	12	4
PUB333	Shelter: Cultural & Historical Contexts	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	4
PUB381	Introduction to Apparel Design & Production	12	4
PUB474	Food Studies	12	5

### Extended Major (120 credit points)

As for the major program plus 24 additional credit points.

### INDONESIAN

#### Minor (72 credit points)

HUB641	Introductory Indonesian 1	12	3
HUB642	Introductory Indonesian 2	12	3
HUB643	Indonesian Language & Culture 3	12	3
HUB644	Indonesian Language & Culture 4	12	3
HUB645	Indonesian Language & Culture 5	12	3
HUB646	Indonesian Language & Culture 6	12	3

### Major (96 credit points)

As for the minor program plus 24 credit points from the following:

HUB610	Approaches to Asia/Pacific Studies	12	3
HUB612	Modern Indonesian Studies	12	3
HUB647	Intensive In-Country Language Studies	24	

### Extended Major (120 credit points)

As for the major program plus 24 additional credit points.

**JAPANESE****Minor (72 credit points)**

HUB660	Introductory Japanese 1 AND	12	3
HUB661	Introductory Japanese 2	12	3
	OR		
HUB662	Japanese Language & Culture 1 AND	12	3
HUB663	Japanese Language & Culture 2	12	3
	PLUS		
HUB664	Japanese Language & Culture 3	12	3
HUB665	Japanese Language & Culture 4	12	3
HUB666	Japanese Language & Culture 5	12	3
HUB667	Japanese Language & Culture 6	12	3

**Major (96 credit points)**

As for the minor program plus 24 credit points from the following:

HUB610	Approaches to Asia/Pacific Studies	12	3
HUB615	Modern China & Japan	12	3
HUB647	Intensive In-Country Language Studies	24	

**Extended Major (120 credit points)**

as for the major program plus 24 additional credit points.

**LEGAL STUDIES****Minor (72 credit points)**

JSS001	The Law & Legal Institutions	12	3
JSS002	Law of Contract	12	3
JSS003	Law of Torts	12	3
JSS004	Criminal Law & Procedure	12	3
JSS005	Individual Legal Responsibilities	12	3

Plus one of the following elective units:

ALB107	Legal Environment of Business	12	3
JSS006	Introduction to Law & Social Justice	12	3

**Major (96 credit points)**

ALB107	Legal Environment of Business	12	3
JSS001	The Law & Legal Institutions	12	3
JSS002	Law of Contract	12	3
JSS003	Law of Torts	12	3
JSS004	Criminal Law & Procedure	12	3
JSS005	Individual Legal Responsibilities	12	3

Plus two of the following elective units:

ALB101	Commercial Law	12	3
	OR Any two law-related units (totalling 24 credit points), selected in consultation with the BEd legal studies subject coordinator.		
JSS006	Introduction to Law & Social Justice	12	3

**Extended Major (120 credit points)**

As for the major program plus the selection of a further two law-related units (totalling 24 credit points), selected in consultation with the BEd legal studies subject coordinator.

**MATHEMATICS****Minor (72 credit points)**

MAB212	Mathematics 1	12	4
MAB222	Mathematics 2	12	4
MAB237	Statistics	12	4
MAB422	Topics in Mathematics	12	4

Plus two additional elective units:

MAB232	Discrete Mathematics	12	4
MAB321	Computational Mathematics	12	4
MAB342	Mathematics of Finance	12	4

MAB348	Statistics 1B	12	4
MAB630	Linear Algebra & Its Applications	12	4
MAB637	Operations Research 1A	12	4

### Major (96 credit points)

As for the minor program plus an additional 24 credit points.

### Extended Major (120 credit points)

As for the major program plus an additional 24 credit points.

## PHYSICAL EDUCATION

### Minor (72 credit points)

HMB309	Motor Development, Learning & Performance	12	5
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Plus two of the following Level 1 elective units:

HMB314	Performance Skills 1 (aquatics/athletics)	12	6
HMB315	Performance Skills 2 (games)	12	6
HMB316	Performance Skills 3 (gymnastics/dance)	12	6

Plus the following Level 2 elective units:

HMB311	Anatomy & Biomechanics	12	4
HMB312	Fitness Parameters	12	5
HMB313	Sociocultural Foundations of Physical Activity	12	4

### Major (96 credit points)

All Level 1 and Level 2 units plus one unit from either the following list of Level 3 elective units, or from approved units offered in the Bachelor of Applied Science (HMS) or from the Bachelor of Education (In-Service) offerings.

HMB317	Outdoor Education	12	6
HMB321	Sport in Society	12	3
HMB324	Advanced Performance Labs	12	3
HMB325	Independent Study	12	3
HMB327	Microcomputers in PE & Sport	12	3
HMB328	International PE & Sport	12	3
HMB329	Play & Culture	12	3
HMB335	Individual Games & Sports	12	6
HMB337	Organisation & Management of PE & Sport	12	3
HMB391	Promotion of Physical Activity	12	3
HMB392	Organising Tournaments & Events	12	3
HMB393	Sport & Equity	12	3
HMB394	History of Physical Education & Sport	12	3

### Extended Major (120 credit points)

As for the major program plus an additional 24 credit points.

### Double Major (168 credit points)

As for the extended major program plus an additional 48 credit points.

This option is available only for those students who are **not** seeking employment in the Queensland Education Department.

## PHYSICS

### Minor (72 credit points)

MAB212	Mathematics 1	12	4
PHB122	Physics 1	12	5
PHB222	Physics 2	12	5
SCB202	Science, Technology & Society	12	4

Plus two of the following elective units selected in consultation with the BEd science subject coordinator.

PHB322	Physics 3A	12	5
PHB332	Physics 3B	12	5
PHB342	Physics 3C	12	5

PHB352	Electronics 1	12	5
PHB422	Physics 4A	12	5
PHB432	Physics 4B	12	5
PHB442	Astronomy & Astrophysics	12	5
PHB452	Electronics 2	12	5
PHB512	Project	12	5
PHB542	Applied Acoustics	12	5
PHB552	Electronics 3	12	5
PHB562	Physical Methods of Analysis	12	5
PHB662	Topics in Physics	12	5
SCB222	Exploration of the Universe	12	5

### Major (96 credit points)

As for the minor program plus 24 additional credit points selected in consultation with the BEd science subject coordinator.

### Extended Major (120 credit points)

As for the major program plus 24 additional credit points selected in consultation with the BEd science subject coordinator.

### SCIENCE STUDIES

#### Minor (72 credit points)

CHB182	Chemistry 1	12	5
	OR		
CHB402	Chemicals in Society	12	5
ESB122	Earth Science 1	12	5
LSB122	Biology 1	12	5
PHB122	Physics 1	12	5
	OR		
PHB222	Physics 2	12	5
SCB202	Science, Technology & Society	12	4

Plus one of the following elective units selected in consultation with the BEd science subject coordinator.

CHB182	Chemistry 1	12	5
CHB402	Chemicals in Society	12	5
LSB222	Biology 2	12	5
LSB312	Marine Studies	12	5
MDB375	Computer Tools for Educators	12	3
PHB122	Physics 1	12	5
PHB222	Physics 2	12	5
SCB222	Exploration of the Universe	12	5

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 units consider them as part of their Z Strand elective units. Units must be selected in consultation with the BEd science subject coordinator.

### Major (96 credit points)

As for minor program plus 24 additional credit points selected in consultation with the BEd science subject coordinator.

### Extended Major (120 credit points)

As for the major program plus 24 additional credit points from any science units selected in consultation with the BEd science subject coordinator.

### SOCIAL SCIENCE

#### Minor (72 credit points)

HUB623	Asian Pacific Political Studies	12	3
HUB680	Approaches to Australian Studies	12	3
HUB686	Introduction to Australian Politics	12	3

HUB700	Aboriginal & Torres Strait Islander Culture Studies	12	3
Plus two of the following elective units:			
HUB610	Approaches to Asia/Pacific Studies	12	3
HUB612	Modern Indonesian Studies	12	3
HUB614	Contemporary Thailand	12	3
HUB617	Women, Aid & Development	12	3
HUB620	The Pacific Since 1945	12	3
HUB682	Social Movements in Australia	12	3
HUB683	Australian Geographical Studies	12	3
HUB684	Making Space: Women's Environments	12	3
HUB693	Australian Race Relations	12	3
HUB723	Europe in the Twentieth Century	12	3

### Major (96 credit points)

As for the minor program plus 24 credit points.

## Transition Program

This program is for second, third and fourth year students in 1993.

### Second Year Students in 1993

#### Year 1 (1992)

Bachelor of Education (Secondary) course – Year 1

Course Structure	Credit Points	Contact Hrs/Wk
<b>Year 2 (1993), Semester 1</b>		
EDB323 Introduction to Professional Practice in Education	12	3
EDB324 Language, Technology & Education	12	3
Discipline Studies X (see Table 1)	12	
Discipline Studies Y (see Table 1)	12	

#### Year 2 (1993), Semester 2

Discipline Studies X (see Table 1)	24
Discipline Studies Y (see Table 1)	24

#### Year 3 (1994)

Bachelor of Education (Secondary) new course – Year 3

#### Year 4 (1995)

Bachelor of Education (Secondary) new course – Year 4

### Third Year Students in 1993

#### Year 1 (1991)

Bachelor of Education (Secondary) course – Year 1

#### Year 2 (1992)

Bachelor of Education (Secondary) course – Year 2

#### Year 3 (1993), Semester 1

EDB311 Professional Practice 1	12	
EDB325 Psychology of Learning & Teaching	12	3
Curriculum Studies 1X (see Table 2)	12	3
Curriculum Studies 1Y (see Table 2)	12	3



**Year 3 (1993), Semester 2**

Discipline Studies X, Y or Z\*

48

**Year 4 (1994)**

Bachelor of Education (Secondary) new course – Year 4

**Fourth Year Students in 1993****Year 1 (1990)**

Bachelor of Education (Secondary) course – Year 1

**Year 2 (1991)**

Bachelor of Education (Secondary) course – Year 2

**Year 3 (1992)**

Bachelor of Education (Secondary) course – Year 3

**Year 4 (1993), Semester 1**

CUB302	Teachers & School Programs	12	3
EDB302	Practice Teaching 2	12	
	Curriculum & Teaching Studies 2A (see Table 3)	12	3
	Curriculum & Teaching Studies 2B (see Table 3)	12	3

**Year 4 (1993), Semester 2**

	Education Studies Elective Unit (see Table 4)	12	3
EDB326	Sociological & Philosophical Analysis of Educational Practice	12	3
EDB303	Practice Teaching 3	8	
	Curriculum & Teaching Studies 3A (see Table 3)	8	
	Curriculum & Teaching Studies 3B (see Table 3)	8	3

**Table 1: Discipline Studies X, Y and Z**

This course requires students to complete 192 credit points in discipline studies with at least 72 in one teaching area and 96 in a second teaching area. Students may select up to 24 credit points in a third discipline area (group Z). These areas for current second year students are as follows:

<b>Group X</b>	<b>Group Y</b>	<b>Group Z</b>
Accounting/Business Management	Accounting/Business Management	Units listed under X and Y (excluding the two teaching areas) plus units from other suitable 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	
	Legal Studies	
	Mathematics	
	Physics	

\* Students may select up to 24 credit points in a discipline area other than their two selected (X, Y) teaching areas. These are labelled area Z.

**Table 2: Curriculum Studies X and Y**

Students select **two** units from this group corresponding with their **two** teaching areas.

AAB412	Art Curriculum Studies 1	12	3
AAB414	Drama Curriculum Studies 1	12	3
HMB310	Physical Education Curriculum Studies 1	12	3
HMB390	Health Education Curriculum Studies 1	12	3
LAB325	English Curriculum Studies 1	12	3
LAB327	Film & Media Curriculum Studies 1	12	3
LAB329	LOTE Curriculum Studies 1	12	3
MDB325	Biology Curriculum Studies 1	12	3
MDB327	Chemistry Curriculum Studies 1	12	3
MDB329	Computing Curriculum Studies 1	12	3
MDB331	Earth Science Curriculum Studies 1	12	3
MDB333	Mathematics Curriculum Studies 1	12	3
MDB335	Physics Curriculum Studies 1	12	3
MDB337	Science Curriculum Studies 1	12	3
PUB312	Home Economics Curriculum Studies 1	12	3
SBB325	Accounting/Bus Management Curriculum Studies 1	12	3
SBB327	Communication Technology Curriculum Studies 1	12	3
SBB329	Economics Curriculum Studies 1	12	3
SBB331	Geography Curriculum Studies 1	12	3
SBB333	History Curriculum Studies 1	12	3
SBB335	Legal Studies Curriculum Studies 1	12	3
SBB337	Social Science Curriculum Studies 1	12	3

**Table 3: Curriculum and Teaching Studies A and B**

Students complete **two** sets of units from this list corresponding with their **two** teaching areas.

AAB435	Art Curric & Teach 2	12	3
AAB436	Art Curric & Teach 3	8	3
AAB438	Drama Curric & Teach 2	12	3
AAB439	Drama Curric & Teach 3	8	3
HMB320	Physical Education Curric & Teach 2	12	3
HMB330	Physical Education Curric & Teach 3	8	3
LAB351	English Curric & Teach 2	12	3
LAB352	English Curric & Teach 3	8	3
LAB354	Film & Media Curric & Teach 2	12	3
LAB355	Film & Media Curric & Teach 3	8	3
LAB357	LOTE Curric & Teach 2	12	3
LAB358	LOTE Curric & Teach 3	8	3
LEB351	Human Relationships Education Curric & Teach 2	12	3
LEB352	Human Relationships Education Curric & Teach 3	8	3
MDB351	Biology Curric & Teach 2	12	3
MDB352	Biology Curric & Teach 3	8	3
MDB354	Chemistry Curric & Teach 2	12	3
MDB355	Chemistry Curric & Teach 3	8	3
MDB357	Computing Curric & Teach 2	12	3
MDB358	Computing Curric & Teach 3	8	3
MDB360	Earth Science Curric & Teach 2	12	3
MDB361	Earth Science Curric & Teach 3	8	3
MDB363	Mathematics Curric & Teach 2	12	3
MDB364	Mathematics Curric & Teach 3	8	3
MDB366	Physics Curric & Teach 2	12	3
MDB367	Physics Curric & Teach 3	8	3
MDB369	Science Curric & Teach 2	12	3
MDB370	Science Curric & Teach 3	8	3
PUB320	Home Economics Curric & Teach 2	12	3

PUB330	Home Economics Curric & Teach 3	8	3
PUB350	Health Education Curric & Teach 2	12	3
PUB360	Health Education Curric & Teach 3	8	3
SBB351	Accounting/Bus. Management Curric & Teach 2	12	3
SBB352	Accounting/Bus. Management Curric & Teach 3	8	3
SBB354	Communication Technology Curric & Teach 2	12	3
SBB355	Communication Technology Curric & Teach 3	8	3
SBB357	Economics Curric & Teach 2	12	3
SBB358	Economics Curric & Teach 3	8	3
SBB360	Geography Curric & Teach 2	12	3
SBB361	Geography Curric & Teach 3	8	3
SBB363	History Curric & Teach 2	12	3
SBB364	History Curric & Teach 3	8	3
SBB366	Legal Studies Curric & Teach 2	12	3
SBB367	Legal Studies Curric & Teach 3	8	3
SBB369	Social Science Curric & Teach 2	12	3
SBB370	Social Science Curric & Teach 3	8	3

**Table 4: Education Studies Elective Unit**

Students select **one** unit from this group.

CPB331	Asian Culture & Education	12	3
CPB336	Education & Cultural Diversity	12	3
CPB337	Gender & Education	12	3
CPB339	Teaching Aboriginal & Torres Strait Islander Students	12	3
CUB330	Education Law & the Beginning Teacher	12	3
EDB330	Independent Study	12	3
EDB490	Research Methods in Education	12	3
LEB330	Educational Counselling	12	3
LEB331	Mainstreaming Children with Low Incidence Disabilities	12	3
LEB332	Teaching Exceptional Students	12	3
MDB300	Teaching in the Information Age	12	3

## ■ Bachelor of Education (Primary) (ED51)

**Location:** Kelvin Grove campus (some elective units are located at Carseldine campus)

**Course Duration:** 4 years full-time

**Total Credit Points:** 384

**Standard Credit Points/Full-Time Semester:** 48

**Course Coordinator:** Dr Bob Hardingham

Course Structure*	Credit Points	Contact Hrs/Wk
<b>Year 1, Semester 1</b>		
EDB321 Education in Context	12	3
EDB324 Language, Technology & Education	12	3
MDB302 Mathematics Foundations	12	3
MDB303 Science Foundations	12	3

\* See Transaction Program section for structure to be followed by third year students in 1993.

**Year 1, Semester 2**

EDB322	Human Development & Education	12	3
EDB323	Introduction to Professional Practice in Education	12	3

Two units from the following (elective unit A):

AAB918	Art Foundation Studies	12	3
HMB171	Fitness, Health & Wellness	12	3
SBB342	Social & Environmental Foundations	12	3

**Year 2, Semester 1**

EDB315	Teachers as Communicators and Professional Practice 1	12	
AAB914	Visual & Performing Arts Curriculum 1	12	3
SBB340	Teaching Social Education	12	3
	LOTE 1 Elective Unit (see Table 1)	12	3
	OR		
	B1 Elective Unit (see Table 2)	12	3

**Year 2, Semester 2**

EDB316	Teachers as Managers & Professional Practice 2	12	
LAB338	Classroom Language Learning	12	3
MDB339	Mathematics Education	12	3
	LOTE 2 Elective Unit (see Table 1)	12	3
	OR		
	B2 Elective Unit (see Table 2)	12	3

**Year 3, Semester 1**

AAB915	Visual & Performing Arts Curriculum 2	12	3
	OR		
	LOTE 3 Elective Unit (see Table 1)	12	3
EDB317	Teachers as Curriculum Decision-makers and Professional Practice 3	12	
EDB325	Psychology of Learning & Teaching	12	3
MDB341	Science Education	12	3

**Year 3, Semester 2**

EDB326	Sociological & Philosophical Analysis of Educational Practice	12	3
HMB301	Health & Physical Education 1	12	5
SBB339	Curriculum in Social Education	12	3
	OR		
	LOTE 4 Elective Unit (see Table 1)	12	3
	LOTE 5 Elective Unit (see Table 1)	12	3
	OR		
	B3 Elective Unit (see Table 2)	12	3

**Year 4, Semester 1**

EDB318	Teachers as Responsive Practitioners and Professional Practice 4	12	
HMB302	Health & Physical Education 2	12	3
	OR		
	LOTE 6 Elective Unit (see Table 1)	12	3
LAB331	Language Programming & Assessment	12	3
MDB340	Mathematics & Technology Education	12	3

**Year 4, Semester 2**

	Education Studies Elective Unit (see Table 3)	12	3
	Education Studies Elective Unit (see Table 3)	12	3
EDB319	Teachers as Reflective Practitioners and Professional Practice 5	12	
	Curriculum Elective Unit (see Table 4)	12	3

**Table 1: Languages Other Than English (LOTE)**

General primary/LOTE students are required to complete 72 credit points of discipline/content studies plus 12 credit points of curriculum studies in one of the four languages available. The language units in the discipline/content strand are as follows:

**FRENCH**

HUB670	Introductory French 1 AND	12	3
HUB671	Introductory French 2	12	3
	OR		
HUB672	French Language & Culture 1 AND	12	3
HUB673	French Language & Culture 2	12	3
	PLUS		
HUB674	French Language & Culture 3	12	3
HUB675	French Language & Culture 4	12	3
HUB676	French Language & Culture 5	12	3
HUB677	French Language & Culture 6	12	3

**GERMAN**

HUB735	Introductory German 1 AND	12	3
HUB736	Introductory German 2	12	3
	OR		
HUB737	German Language & Culture 1 AND	12	3
HUB738	German Language & Culture 2	12	3
	PLUS		
HUB739	German Language & Culture 3	12	3
HUB740	German Language & Culture 4	12	3
HUB741	German Language & Culture 5	12	3
HUB742	German Language & Culture 6	12	3

**INDONESIAN**

HUB641	Indonesian Language & Culture 1	12	3
HUB642	Indonesian Language & Culture 2	12	3
HUB643	Indonesian Language & Culture 3	12	3
HUB644	Indonesian Language & Culture 4	12	3
HUB645	Indonesian Language & Culture 5	12	3
HUB646	Indonesian Language & Culture 6	12	3

**JAPANESE**

HUB660	Introductory Japanese 1 AND	12	3
HUB661	Introductory Japanese 2	12	3
	OR		
HUB662	Japanese Language & Culture 1 AND	12	3
HUB663	Japanese Language & Culture 2	12	3
	PLUS		
HUB664	Japanese Language & Culture 3	12	3
HUB665	Japanese Language & Culture 4	12	3
HUB666	Japanese Language & Culture 5	12	3
HUB667	Japanese Language & Culture 6	12	3

**Table 2: Elective Units B**

Students (except for those following the LOTE program) complete three units from one of the following groups:

**ABORIGINAL AND TORRES STRAIT ISLANDER STUDIES**

EDB336	Aboriginal & Torres Strait Islanders, Past & Present	12	3
EDB337	Issues in Aboriginal & Torres Strait Islander Cultures	12	3
EDB338	Murri & Torres Strait Islander Studies: An Integrated Perspective	12	3

## Bachelor of Education (Primary) 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	
PROFESSIONAL STUDIES	EDUCATION STUDIES	Education in Context (12) Language Technology & Education (12)	Introduction to Professional Practice (12) Human Development & Education (12)			Psychology of Learning & Teaching (12)	Sociological & Philosophical Analysis (12)		Education Studies Elective Unit (12) Educational Studies Elective Unit (12)	96
	PROFESSIONAL STUDIES	Field Experience (2 weeks) +	Field Experience (1 week) Professional Practice (1 week) +	Teachers as Communicators & Professional Practice 1 (3 weeks) (12) #	Teachers as Managers & Professional Practice 2 (3 weeks) (12) #	Teachers as Curriculum Decision-Makers & Professional Practice 3 (3 weeks) (12) # Field Experience (1 week) +	Field Experience (1 week) +	Teachers as Responsive Practitioners & Professional Practice 4 (3 weeks) (12) #	Teachers as Reflective Practitioners & Professional Practice 5 (3 weeks) (12) #	60
	CURRICULUM STUDIES			Visual & Performing Arts Curriculum 1 (12) Teaching Social Education (12)	Classroom Language Learning (12) Mathematics Education (12)	Science Education (12)  Visual & Performing Arts Curriculum 2 (12)  OR	Health & Phys Ed 1 (12)  Curriculum in Social Education (12)  OR	Language Programming & Assessment (12) Maths & Tech Education (12)  Health & Phys Ed 2 (12)  OR	Curriculum Elective Unit (12)  OR  LOTE Curriculum (12)	108 - 144
DISCIPLINE/CONTENT STUDIES		Maths Foundations (12) Science Foundations (12)	Elective Unit A (12) Elective Unit A (12)	LOTE 1 (12) OR Elective Unit B1 (12)	LOTE 2 (12) OR Elective Unit B2 (12)	LOTE 3 (12)  OR	LOTE 4 (12)  LOTE 5 (12) OR Elective Unit B3 (12)	LOTE 6 (12)		84 - 120
TOTAL		48	48	48	48	48	48	48	48	384

\* Third year students in 1993 follow a modified structure (see transition program).

+ Credit points for field experience come from the education studies in the corresponding component.

# These units include a component of campus-based study.

**ASIAN STUDIES**

HUB610	Approaches to Asian/Pacific Basin Studies	12	3
HUB612	Modern Indonesian Studies	12	3
HUB615	Modern China & Japan	12	3

**HEALTH**

HMB305	Personal Health	12	3
HMB333	Child & Adolescent Health	12	3
PUB327	Health Issues in Australia	12	3

**LANGUAGE**

LAB335	Literature in Teaching	12	3
LAB336	Linguistics in Teaching	12	3
LAB337	Workshop for Writers	12	3

**MATHEMATICS**

MDB301	History of Mathematics	12	3
MDB347	Excursions in Number	12	3
MDB349	Mathematical Thinking	12	3

**PHYSICAL EDUCATION**

HMB304	Physical Activity & Modern Society	12	3
HMB306	Developmental & Integrated Physical Activity	12	3
HMB308	Physical Activity Studies	12	3

**SCIENCE**

MDB378	Earth & Space	12	3
MDB379	Science & Survival	12	3
MDB380	Technology & Life Science	12	3

**STUDENTS WITH DISABILITIES**

HMB345	Motor Development & Performance in Disabled Children	12	3
LEB304	Children with Social & Emotional Difficulties	12	3
LEB305	Understanding Children with Intellectual Disabilities	12	3

**SOCIAL SCIENCES**

SBB343	Australia, Asia & the Pacific - A Futures Approach	12	3
SBB344	Consumer Education in Primary Schools	12	3
SBB345	The Australian Legacy	12	3

**THE ARTS**

Students wishing to undertake studies in Dance, Drama or Visual Art will be able to select an appropriate sequence of accredited units offered to education students by the Academy of the Arts. Any student wishing to select a Visual Arts specialisation may select any studio unit listed for the BEd (Secondary) (ED50) extended major. Those wishing to take a music specialisation will take the following three music units.

AAB911	Exploring Music 1	12	3
AAB912	Exploring Music 2	12	3
AAB913	Exploring Music 3	12	3

**Table 3: Education Studies Elective Units**

Students select **one** unit from Group A and **one** unit from Group B.

**Group A: Professional Work of Educators**

CPB330	Aboriginal & Torres Strait Islander Education Policy	12	3
CPB331	Asian Culture & Education	12	3
CPB332	Education & the Community Context	12	3
CPB333	Policy Analysis for Educators	12	3
CPB334	Powerful Teachers, Powerful Students	12	3
CPB335	Teacher as Researcher	12	3
CUB330	Education Law & the Beginning Teacher	12	3
EDB330	Independent Study *	12	3

\* Only one independent study is permitted.

EDB331	Learning/Teaching Environments	12	3
EDB490	Research Methods in Education	12	3
LEB330	Educational Counselling	12	3
MDB300	Teaching in the Information Age	12	3

#### **Group B: Difference and Diversity Among Learners**

CPB336	Education & Cultural Diversity	12	3
CPB337	Gender & Education	12	3
CPB338	Identifying & Responding to Student Differences	12	3
CPB339	Teaching Aboriginal & Torres Strait Islander Students	12	3
EDB330	Independent Study*	12	3
EDB333	Developing Cooperative Environments for Diverse Learners' Needs	12	3
EDB334	Gifted Learners	12	3
LEB331	Mainstreaming Children with Low Incidence Disabilities	12	3
LEB332	Teaching Exceptional Students	12	3

**Table 4: Curriculum Elective Units**

Students select **one** unit from this group

AAB916	Advanced Visual & Performing Arts Curriculum	12	3
AAB917	The Arts & the Whole Curriculum	12	3
HMB341	Sporting & Camping Administration	12	3
HMB342	The Development of Teaching Skills in Physical Education	12	3
HMB343	Environmental Health	12	3
HMB344	Human Relationships Education	12	3
LAB332	Children's Literature in Primary Curriculum	12	3
LAB333	Language in Key Learnings	12	3
LAB334	Primary LOTE Curriculum Studies *	12	3
MDB342	Computers in the School Curriculum	12	3
MDB343	Diagnosis & Remediation in Mathematics	12	3
MDB344	Initiatives in Science Education	12	3
SBB341	Directions in Social Education	12	3
SBB346	Environmental Education	12	3

#### **Transition Program**

This program is for third year students in 1993.

Course Structure		Credit Points	Contact Hrs/Wk
<b>Year 3, Semester 1</b>			
AAB915	Visual & Performing Arts Curriculum 2	12	3
EDB317	Teachers as Curriculum Decision-Makers & Professional Practice 3	12	
EDB324	Language, Technology & Education	12	3
	B2 Elective Unit (see Table 1)	12	3
<b>Year 3, Semester 2</b>			
EDB326	Sociological & Philosophical Analysis of Educational Practice	12	3
SBB339	Curriculum in Social Education	12	3
	A Elective Unit (see Table 2)	12	
	B3 Elective Unit (see Table 3)	12	3

#### **Year 4 (1994)**

Bachelor of Education (Primary) course – Year 4

\* For students following the LOTE program.



**Table 1: B2 Elective Units**Students select **one** unit from this group.

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
MDB301	History of Mathematics	12	3
MDB379	Science & Survival	12	3
SBB261	Social Sciences 2	12	3

**Table 2: A Elective Units**Students select **one** unit from this group.

AAB918	Arts Foundation Studies	12	3
HMB171	Fitness, Health & Wellness	12	3
SBB342	Social & Environmental Foundations	12	3

**Table 3: B3 Elective Units**Students select **one** unit from this group.

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
MDB263	Applications in Mathematics	12	3
MDB265	Biology & Technology	12	3
SBB262	Social Sciences 3	12	3

**■ Bachelor of Education (Early Childhood) (ED52)****Location:** Kelvin Grove campus**Course Duration:** 4 years full-time**Total Credit Points:** 384**Standard Credit Points/Full-Time Semester:** 48**Course Coordinator:** Dr Bob Hardingham

Course Structure*		Credit Points	Contact Hrs/Wk
<b>Year 1, Semester 1</b>			
EAB320	Early Childhood Transactions 1	12	3
EDB321	Education in Context	12	3
EDB323	Introduction to Professional Practice in Education	12	3
MDB302	Mathematics Foundations	12	3
<b>Year 1, Semester 2</b>			
EAB302	Early Childhood Foundations 1	12	3
EDB322	Human Development & Education	12	3

\* See Transition Program section for structure to be followed by third year students in 1993.

EDB324	Language, Technology & Education	12	3
MDB303	Science Foundations	12	3
<b>Year 2, Semester 1</b>			
EAB303	Early Childhood Foundations 2	12	3
EAB305	Early Childhood Language Education 1	12	3
EAB307	Early Childhood Mathematics Education	12	3
EDB305	Early Childhood Practices 1	12	2.5
<b>Year 2, Semester 2</b>			
EAB309	Integrated Early Childhood Curriculum 1	12	3
EAB321	Early Childhood Transactions 2	12	3
EDB306	Early Childhood Practices 2	12	2.5
	Elective Unit 1 (see Table 1)	12	3
<b>Year 3, Semester 1</b>			
EAB304	Early Childhood Foundations 3	12	3
EDB307	Early Childhood Practices 3	12	2.5
EDB325	Psychology of Learning & Teaching	12	3
EDB326	Sociological & Philosophical Analysis of Educational Practice	12	3
<b>Year 3, Semester 2</b>			
EAB300	Early Childhood Arts 1	12	3
EAB308	Early Childhood Sciences, Mathematics & Technology	12	3
EDB308	Early Childhood Practices 4	12	2.5
	Elective Unit 2 (see Table 1)	12	3
<b>Year 4, Semester 1</b>			
EAB301	Early Childhood Arts 2	12	3
EAB306	Early Childhood Language Education 2	12	3
EDB309	Early Childhood Practices 5	12	2
	Elective Unit 3 (see Table 2)	12	3
<b>Year 4, Semester 2</b>			
	Education Studies Elective Unit (see Table 3)	12	3
	Education Studies Elective Unit (see Table 3)	12	3
EAB310	Integrated Early Childhood Curriculum 2	12	3
EDB310	Early Childhood Practices 6	12	2

**Table 1: Elective Units 1 and 2**

EAB312	Case Studies in Early Childhood & Family Literacy	12	3
EAB313	Children's Literature for Early Childhood Settings	12	3
EAB314	Children, Teachers & the Environment	12	3
EAB315	Creating Curriculum with Young Children	12	3
EAB316	Early Childhood Art Education	12	3
EAB317	Early Childhood Drama in Education	12	3
EAB323	Everyday Food & Science for Young Children	12	3
EAB326	Music Education & Young Children	12	3
EAB329	Routines for Inclusive Early Childhood Curriculum	12	3
EAB330	Storytelling in Early Childhood	12	3
EAB331	Technology & the Young Child	12	3
MDB301	History of Mathematics	12	3

**Table 2: Elective Unit 3**

EAB311	Alternative Programs in Early Childhood	12	3
EAB318	Early Childhood Education & Family Issues in Australia	12	3
EAB319	Early Childhood Sociocultural Contexts	12	3
EAB322	Ethical Responsibilities in Early Childhood	12	3
EAB324	Integrating Young Children with Disabilities into Early Childhood Programs	12	3

EAB325	Management of Early Childhood Services	12	3
EAB328	Research in Early Childhood Development	12	3
EAB332	Technology in Early Childhood Contexts	12	3

### Table 3: Education Studies Elective Units

Students select **one** unit from Group A and **one** unit from Group B.

#### Group A: Professional Work of Educators

CPB330	Aboriginal & Torres Strait Islander Education Policy	12	3
CPB331	Asian Culture & Education	12	3
CPB332	Education & the Community Context	12	3
CPB333	Policy Analysis for Educators	12	3
CPB334	Powerful Teachers, Powerful Students	12	3
CPB335	Teacher as Researcher	12	3
CUB330	Education Law & the Beginning Teacher	12	3
EDB330	Independent Study *	12	3
EDB331	Learning/Teaching Environments	12	3
EDB490	Research Methods in Education	12	3
LEB330	Educational Counselling	12	3
MDB300	Teaching in the Information Age	12	3

#### Group B: Difference & Diversity Among Learners

CPB336	Education & Cultural Diversity	12	3
CPB337	Gender & Education	12	3
CPB338	Identifying & Responding to Student Differences	12	3
CPB339	Teaching Aboriginal & Torres Strait Islander Students	12	3
EDB330	Independent Study*	12	3
EDB333	Developing Cooperative Environments for Diverse Learners' Needs	12	3
EDB334	Gifted Learners	12	3
LEB331	Mainstreaming Children with Low Incidence Disabilities	12	3
LEB332	Teaching Exceptional Students	12	3

#### Course Structure

This program is for third year students in 1993.

**Credit  
Points**

**Contact  
Hrs/Wk**

#### Year 3, Semester 1

EAB309	Integrated Early Childhood Curriculum 1	12	3
EDB326	Sociological & Philosophical Analysis of Educational Practice	12	3
EAB327	Practical Child Care Issues	12	3
	Elective Unit 1 (see Table 4)	12	3

#### Year 3, Semester 2

EAB308	Early Childhood Sciences, Mathematics & Technology	12	3
EAB321	Early Childhood Transactions 2	12	3
EDB308	Early Childhood Practices 4	12	2
	Elective Unit 2 (see Table 5)	12	3

#### Year 4, Semester 1

EAB301	Early Childhood Arts 2	12	3
EAB306	Early Childhood Language Education 2	12	3
EDB309	Early Childhood Practices 5	12	2
	Elective Unit 3 (see Table 2)		

\* Only one independent study is permitted.

## Bachelor of Education (Early Childhood) 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	
PROFESSIONAL STUDIES	EDUCATION STUDIES	Education in Context (12) Introduction to Professional Practice (12)	Language, Technology & Education (12) Human Development & Education (12)			Psychology of Learning & Teaching (12) Sociological & Philosophical Analysis (12)			Education Studies Elective Unit (12) Educational Studies Elective Unit (12)	96
	PROFESSIONAL STUDIES	Field Experience (2 weeks) **	Field Experience (2 weeks) **	Early Childhood Practices 1 (2 weeks) (12)#	Early Childhood Practices 2 (2 weeks) (12) #	Early Childhood Practices 3 (2 weeks) (12) # Field Experience (2 weeks) **	Early Childhood Practices 4 (2 weeks) (12) +	Early Childhood Practices 5 (4 weeks) (12) #	Early Childhood Practices 6 (4 weeks) (12)#	72
	CURRICULUM STUDIES		EC Foundations 1 (12)	EC Foundations 2 (12) EC Language Education 1 (12) EC Maths Education (12)	Integrated EC Curriculum 1 (12)	EC Foundations 3 (12)	EC Sciences, Maths & Technology (12)  EC Arts 1 (12)	EC Language Education 2 (12)  EC Arts 2 (12)	Integrated EC Curriculum 2 (12)	132
	DISCIPLINE/CONTENT STUDIES	EC Transactions 1 (12) Maths Foundations 12	Science Foundations 12		EC Transactions 2 (12)  Elective Unit 1 (12) +		  Elective Unit 2 (12) +	  Elective Unit 3 (12) +		84
TOTAL		48	48	48	48	48	48	48	48	384

\* Third year students in 1993 follow a modified structure (see transition program).

+ These three elective units may be taken in a variety of schools and faculties.

# These units include a component of campus-based study.

\*\* Credit points for field experience come from the education studies in the corresponding component.

## Year 4, Semester 2

	Education Studies Elective Unit (see Table 3)	12	3
	Education Studies Elective Unit (see Table 3)	12	3
EAB310	Integrated Early Childhood Curriculum 2	12	3
EDB310	Early Childhood Practices 6	12	2

## Elective Units

### Table 4: Elective Unit 1

EAB312	Case Studies in Early Childhood & Family Literacy	12	3
EAB313	Children's Literature for Early Childhood Settings	12	3
EAB316	Early Childhood Art Education	12	3
EAB323	Everyday Food & Science for Young Children	12	3
EAB326	Music Education & Young Children	12	3

### Table 5: Elective Unit 2

EAB314	Children, Teachers & the Environment	12	3
EAB315	Creating Curricula with Young Children	12	3
EAB329	Routines for Inclusive Early Childhood Curriculum	12	3
EAB330	Storytelling in Early Childhood	12	3
EAB331	Technology & the Young Child	12	3

## ■ Bachelor of Teaching (Early Childhood/Primary)

**Location:** Kelvin Grove campus

**Course Duration:** 3 years full-time

**Total Credit Points:** 288

**Standard Credit Points/Full-Time Semester:** 48

**Course Coordinator:** Mr John Cook

The Bachelor of Teaching (Early Childhood/Primary) course is being phased out and replaced by the Bachelor of Education (Pre-Service) course.

As of 1993, there will be no further intake of students into the Bachelor of Teaching course. The second and third year of the program will be offered until 1994.

## □ Bachelor of Teaching (Early Childhood) (ED40)

**Location:** Kelvin Grove campus

**Associate Course Coordinator:** Mr Rod Campbell

Course Structure		Credit Points	Contact Hrs/Wk
Year 2, Semester 1			
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 Unit – select from List A	8	2

## Year 2, Semester 2

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

## Year 3, Semester 1

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 Unit – select from List A	8	2

## Year 3, Semester 2

EAB105	Early Childhood Education Contexts	8	2
EAB157	Teaching Strategies 5	12	3

Two units 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 Unit – select from List A	8	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 Unit Lists

### List A: 8 Credit Point Elective Units

CUB102	Legal Issues & the Teacher	8	2
EAB160	ESL in Early Childhood Settings	8	2
EAB161	Cultural Inclusivity in Early Childhood	8	2
EAB165	Programs for Children Under Three Years	8	3
EAB166	Special Programs for Young Children	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 EC Centres	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 (July-November)</b>			
EAB501	Advanced Child Care Development & Learning	16	
EAB502	Advanced Curriculum Theory & Design for Child Care	16	
<b>Year 2, Semester 1 (February-June)</b>			
EAB103	Australian Families & Early Education	8	
EAB503	Teaching Strategies for Child Care	16	
<b>Year 2, Semester 2 (July-November)</b>			
EAB504	Programs & Teaching Strategies for Children Under Three Years	16	
EAB505	Learning Teaching & Integrated Curriculum for 3-5 years	16	
<b>Summer School (3 weeks within the November-January period)</b>			
EAB506	Field Project (Children 0-5 years)	16	
<b>Year 3, Semester 1 (February-June)</b>			
EAB144	Integrating the Exceptional Child in Early Childhood	8	
EAB507	Early Childhood Leadership & Management in the Sociocultural Context	16	
<b>Year 3, Semester 2 (3 weeks within the July-November period)</b>			
EAB508	Field Project (Children 0-12 years)	16	

## ☐ Bachelor of Teaching (Primary) (ED41)

**Location:** Kelvin Grove campus

**Primary Specialisation Manager:** Ms Jan Millwater

Course Structure		Credit Points	Contact Hrs/Wk
<b>Year 2, Semester 1</b>			
EAB252	Practice Teaching 2	8	
LAB230	Language Education 2*	12	3
LEB241	Development & Learning 2*	8	3
MDB228	Science Education	8	3
	Three units selected from List A	24	
<b>Year 2, Semester 2</b>			
CPB201	Education & Society	12	3
CUB211	Teaching as Managing Learning	8	3

\* These units are compulsory; they should be taken in alternate semesters and quotas will apply.

EDB253	Practice Teaching 3	8	
LAB230	Language Education 2*	12	3
LEB241	Development & Learning*	8	3
	One unit selected from List B: Disciplines Elective Units 1	8	

### Year 3, Semester 1

CUB212	Teachers as Curriculum Decision-Makers	12	3
EDB254	Practice Teaching 4	12	
MDB231	Mathematics Education 2	12	4
	One Unit from List E: Discipline Elective Units 2	12	

**Note:** Early Childhood, Physical Education and Music Education major students only will complete their curriculum elective units (List D) in Semester 1 in addition to the units above.

### Year 3, Semester 2

CPB202	Education & Change	8	3
EDB255	Practice Teaching 5	12	
	One Unit from List C: Professional Elective Units	8	3
	One Unit from List D: Curriculum Elective Units	8	3
	One Unit from List F: Discipline Elective Units	12	3

### Elective Units

#### List A

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

#### List B: Discipline Elective Units 1

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

#### List C: Professional Elective Units

CPB280	Educational Leadership	8	3
CPB281	Ethnicity & Racism in Education	8	3
CUB281	Negotiated Study in Teaching	8	3
CUB282	Managing Exceptional Children	8	3
LEB280	Development & Learning Elective Unit	8	3

#### List D: Curriculum Elective Units

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

\* These units are compulsory; they should be taken in alternate semesters and quotas will apply.



**List E: Discipline Elective Units 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
MDB262	History of Mathematics	12	3
MDB264	Science & Survival	12	3
SBB261	Social Sciences 2	12	3

**List F: Discipline Elective Units 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
MDB263	Applications in Mathematics	12	3
MDB265	Biology & Technology	12	3
SBB262	Social Sciences 3	12	3

**■ Graduate Certificate in Education (ED61)**

**Location:** Kelvin Grove and Gardens Point campuses

**Course Duration:** 1 year part-time internal or external

**Total Credit Points:** 48

**Standard Credit Points/Full-Time Semester:** 48

**Course Coordinator:** Ms Leonie Daws

**Entry Requirements**

The entry requirements will be as for the postgraduate course from which the four units that make up the Graduate Certificate are taken.

To allow for special cases, applicants with qualifications or experience deemed appropriate by the Dean of Faculty may be given provisional entry. In such cases, the course coordinator will take recommendations to the Dean.

**Special Course Requirements**

Students are required to complete four units in one of the following areas of interest: Computing, Mathematics and Science Education; Advanced Skills Teacher; Curriculum Development; Educational Management; Human Relationships Education; Mathematics Education; Adult Literacy Education; or Tertiary.

Units may be completed in standard, modularised and block form. In standard form, that is normal part-time mode, units are offered over the normal teaching semester. Modularised form allows students to complete modules and assessment deemed by the Dean of Faculty to be equivalent to a normal part-time unit. Units may be reduced to one or two blocks of intensive study in the third block form of study.

## Course Structure

The Graduate Certificate in Education course consists of 48 credit points of units (usually four units) from a postgraduate course within the Faculty of Education deemed by the Dean of Faculty to form a coherent program of study. Postgraduate courses suitable for Graduate Certificate in Education units are Master of Education, Bachelor of Education (In-Service), Graduate Diploma in Education (Resource Teaching). Areas of study offering a Graduate Certificate in Education are listed on the following page.

Units within the Graduate Certificate in Education course can be presented in standard, modularised and block form. In standard form, ie. normal part-time mode, the units are offered over the normal teaching semester with three to four hours a week set aside for lectures, workshops, seminars, tutorials and/or laboratories. Assessment is included in the program and is completed by the end of the examination weeks. In this form, open access mode would operate normally with tuition notes, readings and use of technologies such as audio and video conferencing.

Modularised form is the most unstructured of the three allowed forms of unit delivery within the Graduate Certificate in Education award. Determining when a student has completed a unit through standard and block form is reasonably straightforward, however special arrangements will have to be developed for units delivered in module form. The modules are offered in a variety of lengths and forms. Students can complete units by completing modules and assessment deemed by the Dean of Faculty to be equivalent to the normal part-time units (usually 12 credit points). In all cases, the determination of the curriculum, the teaching staff and the assessment of the modules shall be controlled by the Schools within the Faculty of Education.

The modules are designed to be attractive to teachers, schools and regions as in-service activities for which it is worthwhile to pay fees. Possible lengths and forms are one and two-day seminars, afternoon workshops, one and two-week blocks, workplace-based sessions and workplace study groups. Modules are designed and arranged so that they can be combined to be equivalent to units and finally to be the award of a Graduate Certificate in Education. Modules are considered to be equivalent to a unit if they cover the work normally in the unit and the same assessment as in the unit is involved. For ease of determining equivalence, assessment will be considered separately to what is covered in the modules.

The third option for units in the Graduate Certificate in Education is block form. This form of delivery allows units to be taken by students whose workplace prevents normal part-time attendance at units. The lecturing input is reduced to one or two blocks (normally two or three weeks of length in total) of intensive study. This study period or 'school' is preceded by reading and followed by independent study leading to the preparation of assessment. For teachers, the blocks will commonly occur in holiday time. This will allow open access for this form of delivery.

## Course Structure

Course Structure		Credit Points	Contact Hrs/Wk
<b>Computing, Mathematics &amp; Science Education</b>			
EDN600	Research Methods in Education	12	3
EDN601	Major Issues in Education	12	3
MDN601	Curriculum Studies in Mathematics, Science & Computer Education	12	3
MDN602	Focus on the Mathematics, Science & Computing Classroom	12	3

**Advanced Skills Teacher**

CUB431	Classroom Management: Models & Practice	12	3
CUB433	Teaching Strategies	12	3
CUB434	Supervision of Teaching	12	3
CUB443	Classroom Assessment Practices	12	3
	OR		
CUB445	Community Resources & School Change	12	3

**Curriculum Development**

CUB410	Teachers & the Curriculum	12	3
CUB411	Evaluation in Curriculum Development	12	3
CUB413	Curriculum, Making it Happen at School	12	3
CUB444	Educators & the Law	12	3

**Educational Management**

EDP512	Policies & Practices in Educational Management	12	3
EDP513	Educational Services Management	12	3

Select two:

CPB440	The Community & School Administration	12	3
EAP500	Early Childhood Leadership & Advocacy	12	3
EDP515	Human Resource Management in Education	12	3

**Human Relationship Education**

LEP515	Human Sexuality & Learning	12	3
LEP519	Interpersonal & Professional Relationships I	12	3
LEP522	Interpersonal & Small Group Teaching Strategies	12	3

Select one:

CPP510	Sociocultural Context of HRE	12	3
LEB444	Human Sexuality & Development	12	3
LEP517	Ethics & Human Relationships Education	12	3
LEP518	Human Relationships Across the Lifespan	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
MDP520	Thinking & Learning in Mathematics & Science	12	3

**Adult Literacy Education**

LAP521	Program Development, Implementation & Evaluation in Adult Literacy	12	3
LAP522	Specific Groups of Adult Literacy Learners	12	3
LAP523	Understanding Literacy - Understanding Adult Literacy	12	3
LAP524	Teaching & Learning in Adult Literacy	12	3

**Tertiary**

EDP601	The Reflective Practitioner in Higher Education	12	3
EDP602	Adult Learning & Teaching in Higher Education	12	3
EDP603	Higher Education in Australia: Context & Issues	12	3
EDP604	Program Design, Development & Evaluation in Higher Education	12	3

## ■ Graduate Certificate of Education - Teaching of English to Speakers of Other Languages (TESOL) ED60

**Location:** Kelvin Grove campus

**Course Duration:** 1 semester full-time or 2 semesters part-time

**Total Credit Points:** 48

**Course Coordinator:** Dr Ed Burke

### Entry Requirements

To be eligible for admission an applicant must:

- (i) hold a recognised degree or diploma; and preferably
- (ii) have experience in TESOL.

Applicants who are non-native speakers of English will be asked to present an IELTS or TOEFL score or an ASLPR rating required for entry into studies within the Faculty of Education.

### Course Structure

The program introduces students to theory and to the practices in teaching English to speakers of other languages. Some students may elect to specialise in child, adolescent or adult ESL/EFL learners in their seminars and assignments; others may elect to focus on the special programs (ie English for Special Purpose, English for Academic Purposes,...) in LAP602 and LAP604.

Course Structure		Credit Points	Contact Hrs/Wk
<b>Semesters 1 and 2</b>			
LAP601	Language in Use (Semester 1)	12	3
LAP602	Language Teaching in Practice (Semester 2)	12	3
LAP603	The Nature of Language Learning (Semester 1)	12	3
LAP604	ESL Materials & Curriculum (Semester 2)	12	3

# **FACULTY OF HEALTH**

# Courses

■ Master of Health Science (HL88) .....	463
■ Master of Nursing (NS85).....	467
■ Master of Public Health (PU85) .....	469
■ Graduate Diploma in Advanced Nursing Practice (NS62) .....	472
■ Graduate Diploma in Health Promotion (PU69) .....	474
■ Graduate Diploma in Nutrition and Dietetics (PU62) .....	475
■ Graduate Diploma in Occupational Health and Safety (PU65).....	476
■ Bachelor of Applied Science (Environmental Health) (PU42) .....	477
■ Bachelor of Applied Science (Home Economics) (PU49) .....	478
■ Bachelor of Applied Science (Human Movement Studies) (HM42).....	479
■ Bachelor of Applied Science (Occupational Health and Safety (PU44).....	481
■ Bachelor of Applied Science (Optometry) (OP42).....	482
■ Bachelor of Applied Science (Podiatry) (PU45) .....	484
■ Bachelor of Business (Health Administration) (PU48).....	485
■ Bachelor of Nursing (Postregistration) (NS48) .....	488
■ Bachelor of Nursing (Preregistration) (NS40).....	492

# FACULTY OF HEALTH

## Course Structures

### ■ Master of Health Science (HL88)

**Location:** Kelvin Grove and Gardens Point campuses

**Course Duration:** 1.5 years full-time, 3 years part time

**Total Credit Points:** 144

**Standard Credit Points/Full-time Semester:** 48

**Course Coordinator:** For information please contact the Faculty of Health office, telephone (07) 864 2356.

#### Entry Requirements

To be eligible for entry applicants should hold:

- (i) an appropriate three-year bachelor degree or equivalent and should normally have at least one year of appropriate work experience; or
- (ii) an appropriate three-year bachelor degree with an additional one year of honours; or
- (iii) an appropriate four-year bachelor degree or equivalent; or
- (iv) an appropriate graduate diploma; or
- (v) other qualifications acceptable to the Dean which may include substantial work experience or involvement in relevant research activities.

Candidates may be required to attend an interview with the relevant Head of School in which they will complete their research project and thesis, in order to establish suitability for entry into the course.

#### Advanced Standing

Candidates with a four-year degree or three-year degree with an additional one year of honours may be able to obtain advanced standing up to a maximum of 48 credit points for previous study.

Candidates with a Graduate Diploma in Occupational Health and Safety, Nutrition and Dietetics or Health Promotion wanting to continue in these specialisations may be able to obtain advanced standing up to a maximum of 96 credit points for previous study. For candidates undertaking the Graduate Diploma in Health Promotion there is complete articulation with the masters degree program. In the case of the Graduate Diplomas in Occupational Health and Safety and Nutrition and Dietetics the articulation is less than complete because of professional requirements for credentialling and registration.

Candidates cannot normally enrol directly in the Masters degree in the areas of Nutrition and Dietetics, Occupational Health and Safety and Health Promotion unless they have completed relevant undergraduate qualifications in one of the above areas to the satisfaction of the course coordinator. Special consideration may be given to candidates on an individual basis by the course coordinator.

Advanced standing is not automatic and will be subject to the approval of the course coordinator.

### Special Entry

Candidates who do not hold a qualification required of normal entrants may be required to successfully complete a bridging program or pre-requisites prescribed by the Dean in consultation with the relevant Head of School.

### Provisional enrolment

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 course coordinator. After satisfactory completion of the preliminary studies students will be admitted to full candidature.

### Early Exit From Course

Students who successfully complete the equivalent of one year of full-time study may exit from the program with a Graduate Diploma in Health Science.

### Full-Time Course Structure

**Credit  
Points**

**Contact  
Hrs/Wk**

#### Year 1, Semester 1

Compulsory Core Units – 36 Credit Points

MAN009	Experimental Design & Statistical Analysis for Research	}	Select one unit	12	3
NSN405	Qualitative Research			12	3
PUP010	Health in Australian Society			12	3
PUN601	Contemporary Health Care Issues			12	3
One compulsory core unit selected from List A				12	3

#### Year 1, Semester 2

HLN001	Literature Review	12	3
Three specialist elective units selected from Lists B-H		36	9

#### Year 2, Semester 1

HLN002	Research Project	12	3
HLN003	Thesis Presentation	24	
One specialist elective unit (in appropriate discipline area) selected from List I		12	3

### Part-Time Course Structure

#### Year 1, Semester 1

MAN009	Experimental Design & Statistical Analysis for Research	} Select one unit	12	3
NSN405	Qualitative Research		12	3
PUP010	Health in Australian Society		12	3

#### Year 1, Semester 2

HMN603	Scientific Bases of Human Performance	12	3
	OR		
OPN603	Advanced Ocular Pharmacology	12	3
HMN604	Social Issues in Sport	12	3
	OR		
PUP116	Ergonomics	12	3
OPN602	Advanced Clinical Methods	12	3
	OR		
PUN629	General Medicine	12	3



PLP402	Social Planning	6	
PLP558	Population & Urban Studies AND	12	3
PLP566	Housing & Community Services	6	
PUN617	Environmental Health Management 1	12	3
	OR		
PUN625	Home Economics Philosophical Foundations	12	3
PUN624	Home Economics Food & Nutrition	12	3
PUN627	Advanced Pharmacology	12	3
PUP018	Health Promotion Strategies	12	3
PUP021	Case Studies on Contemporary Health Issues	12	3
	OR		
PUN619	Environmental Health 1	12	3
PUP215	Occupational Health & Safety Law & Management 2	12	3

Select  
24  
credit  
points

### Year 2, Semester 1

PUN601	Contemporary Health Care Issues	12	3
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Plus one of the following units:

LWS006	Health, Ethics & the Law	12	3
PUN602	Health Planning Management & Evaluation	12	3
PUN608	Economics & Health	12	3
PUN609	Health Care Finance	12	3
PUN610	Health Services Management	12	3
PUP007	Social & Behavioural Epidemiology	12	3
PUP014	School Health Education	12	3
PUP024	Foundations of Health Education	12	3
PUP025	Community Health Promotion	12	3
PUP140	Communication Theory & Practice for Health Professionals	12	3

### Year 2, Semester 2

HLN001	Literature Review	12	3
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Plus one of the following units:

HMN601	Exercise & Health Across the Lifespan	12	3
OPN601	Advanced Contact Lens Studies	12	3
PUN620	Environmental Health 2	12	3
PUN622	Clothing: The Human Constructed Environment	12	3
PUN623	Home Economics, the Family & the Politics of Feminism	12	3
PUN628	Clinical Pathology & Diagnosis	12	3
PUP023	Program Planning in School & Community Health	12	3
PUP250	Occupational Hygiene	12	3

### Year 3, Semester 1

HLN002	Research Project	12	3
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Plus one of the following units:

HMN602	Readings in Human Movement Studies	12	3
MEP201	Safety Technology & Practice 1	12	3
OPN604	Paediatric Optometry	12	3
PUN618	Environmental Health Management 2	12	3
PUN626	Home Economics Field Study	12	3
PUN630	Computerised Gait Analysis	12	3
PUN631	Podiatric Surgery	12	3
PUP022	Health Promotion Concepts & Policies	12	3
PUP301	Safety Technology & Practice 2	12	3
PUP415	Occupational Health	12	3

### Year 3, Semester 2

HLN003	Thesis Presentation	24	
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<b>List A: Compulsory Core Units (select one)</b>		
LWS006	Health Ethics & the Law	3
PUP007	Social & Behavioural Epidemiology	3
PUP014	School Health Education	3
PUP024	Foundations of Health Education	3
PUP025	Community Health Promotion	3
PUN602	Health Planning Management & Evaluation	3
PUN608	Economics & Health	3
PUN609	Health Care Finance	3
PUN610	Health Services Management	3
PUP140	Communication Theory & Practice for Health Professionals	3

#### SPECIAL ELECTIVE UNITS\*

##### List B: Environmental Health

PUN617	Environmental Health Management 1	3
PUN619	Environmental Health 1	3
PUN620	Environmental Health 2	3

##### List C: Health Promotion

PUP018	Health Promotion Strategies	3
PUP021	Case Studies on Contemporary Health Issues	3
PUP023	Program Planning in School & Community Health	3

##### List D: Home Economics

PLP402	Social Planning	6
PLP566	Housing & Community Services	6
PLP558	Population & Urban Studies	3
PUN622	Clothing: The Human Constructed Environment	3
PUN623	Home Economics, the Family & the Politics of Feminism	3
PUN624	Home Economics Food & Nutrition	3
PUN625	Home Economics Philosophical Foundations	3

##### List E: Human Movement Studies

HMN601	Exercise & Health Across the Lifespan	3
HMN603	Scientific Bases of Human Performance	3
HMN604	Social Issues in Sport	3

##### List F: Occupational Health & Safety

PUP116	Ergonomics	3
PUP215	Occupational Health & Safety Law & Management 2	3
PUP250	Occupational Hygiene	3

##### List G: Optometry

OPN601	Advanced Contact Lens Studies	3
OPN602	Advanced Clinical Methods	3
OPN603	Advanced Ocular Pharmacology	3

##### List H: Podiatry

PUN627	Advanced Pharmacology	3
PUN628	Clinical Pathology & Diagnosis	3
PUN629	General Medicine	3

##### List I: One to be selected in the appropriate discipline area

HMN602	Readings in Human Movement Studies	3
MEP201	Safety Technology & Practice 1	3
OPN604	Paediatric Optometry	3
PUN618	Environmental Health Management 2	3
PUN626	Home Economics Field Study	3
PUN630	Computerised Gait Analysis	3
PUN631	Podiatric Surgery	3
PUP022	Health Promotion Concepts & Policy: A Critical Analysis	3

\* Elective units will only be offered if sufficient numbers enrol, thus different specialist electives may be subject to periodic intakes. Elective units other than those listed above can be selected in consultation with the course coordinator.

PUP301	Safety Technology & Practice 2	12	3
PUP415	Occupational Health	12	3

**Note:** Elective units will only be offered if sufficient numbers enrol, thus different special elective units may be subject to periodic intakes.

Elective units other than those listed above can be selected in consultation with the course coordinator.

## ■ Master of Nursing (NS85)

**Location:** Kelvin Grove and Gardens Point campuses

**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 Deanne Gaskill

### 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.

### Course Requirements

Students are required to complete:

- ☐ two core units;
- ☐ two elective units;
- ☐ two clinical specialisation units;
- ☐ two advanced nursing units;
- ☐ three step-locked dissertation units.

Students should select two units in a specified clinical area to be taken concurrently. For example, students should enrol in both Psychiatric/Mental Health Nursing 1 and Psychiatric/Mental Health Nursing 2.

**Full-Time Course Structure  
(Commencing 1993)****Credit  
Points****Contact  
Hrs/Wk****Year 1, Semester 1**

NSN405	Qualitative Research		12	
PUN601	Contemporary Health Care Issues		12	3
PUN602	Health Planning Management & Evaluation	}	select one	3
PUN610	Health Services Management			
LSN150	Epidemiology & Research Strategies	}	select one	4
MAN009	Experimental Design & Statistical Analysis for Research			
NSN103	Research Methods in Nursing		12	3

**Year 1, Semester 2**

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	}	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	}	select one	12	3
NSN115	Midwifery 2				
NSN118	Gerontological Nursing 2				
NSN121	Child & Adolescent Nursing 2				
NSN301	Advanced Nursing Education 1	}	select one	12	3
NSN304	Advanced Nursing Management 1				
NSN411	Research Seminar			12	3

**Year 2, Semester 1**

NSN302	Advanced Nursing Education 2	}	elect one	12	3
NSN305	Advanced Nursing Management 2			12	3
NSN412	Research Project			12	3
NSN406	Dissertation			24	3

**Part-Time Course Structure****Credit  
Points****Contact  
Hrs/Wk****Year 1, Semester 1**

PUN601	Contemporary Health Care Issues	12	3
NSN405	Qualitative Research	12	

**Year 1, Semester 2**

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				
NSN106	Medical/Surgical Nursing 2				
NSN109	Primary Health Care Nursing 2				
NSN112	Psychiatric/Mental Health Nursing 2				
NSN115	Midwifery 2				
NSN118	Gerontological Nursing 2				
NSN121	Child & Adolescent Nursing 2				

### Year 2, Semester 1

PUN602	Health Planning, Management & Evaluation	}	select one	12	3
PUN610	Health Services Management			12	3
LSN150	Epidemiology & Research Strategies	}	select one	12	3
MAN009	Experimental Design & Statistical Analysis for Research			12	4
NSN103	Research Methods in Nursing			12	3

### Year 2, Semester 2

NSN301	Advanced Nursing Education 1	}	select one	12	3
NSN304	Advanced Nursing Management 1			12	3
NSN411	Research Seminar			12	3

### Year 3, Semester 1

NSN302	Advanced Nursing Education 2	}	select one	12	3
NSN308	Advanced Nursing Clinical 2				
NSN412	Research Project			12	3

### Year 3, Semester 2

NSN404	Dissertation			24	3
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**Note:** Students who commenced this course prior to 1993 should contact the course coordinator to review details of their enrolment program for 1993.

## ■ 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 elective units 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:** Associate Professor Don Stewart

### Entry Requirements

The entry requirements for the Master of Public Health 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 units 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 units listed in Part A of the Schedule (core units);
    - (b) 36 credit points from units listed in Part B of the Schedule (units); and
    - (c) credit for PUN607 Dissertation (48 credit points).
- (2) The Dean of Health may grant credit for a core unit if the Director considers the candidate has, while enrolled in this course, passed a unit or units at least its equivalent in content and standard at any of the three collaborating institutions.

### **Credit for a Unit**

To obtain credit for a unit 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 Master of Public Health degree 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 units per semester), followed by a dissertation component of one semester (or two semesters part-time). The coursework component comprises five core units and three advanced elective units.

#### **PART A**

		<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
<b>Core Units</b>			
PUN602	Health Planning, Management & Evaluation (QUT)	12	3
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 Units Offered by QUT**

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
PUN613	Public Health Education	12	3
PUP018	Health Promotion Strategies	12	3

(Additional elective units 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 10,000 and 20,000 words in length.

## ■ Graduate Diploma in Advanced Nursing Practice (NS62)

**Location:** Kelvin Grove and Gardens Point campuses

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

**Total Credit Points:** 96

**Standard Credit Points/Full-Time Semester:** 48

**Course Coordinator:** Ms Deanne Gaskill

### Entry Requirements

#### NORMAL ENTRY

Applicants for admission to the course shall hold:

- (i) a nursing qualification acceptable for registration by the Nurses Registration Board of Queensland;
- (ii) a degree or diploma in nursing; and
- (iii) normally have at least one year of appropriate post-registration clinical experience.

#### SPECIAL ENTRY

An applicant who does not meet the requirements for normal entry may present documentary evidence of qualifications, experience and other relevant information for special consideration by the Head of School. Such an applicant may be required to undertake appropriate bridging units to be determined at the discretion of the Head of School. The units would normally be selected from areas of study in the Bachelor of 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 two units in that area of study. Six areas of specialisation will be offered in 1993: Medical/Surgical Nursing, Primary Health Care Nursing, Psychiatric/Mental Health Nursing, Midwifery, Gerontological Nursing, Child and Adolescent Nursing

### Full-Time Course Structure

		Credit Points	Contact Hrs/Wk
<b>Year 1, Semester 1</b>			
NSN102	Concepts for Advanced Clinical Nursing	12	3
NSN405	Qualitative Research	12	
PUN601	Contemporary Health Care Issues	12	3
LSN150	Epidemiology & Research Strategies	12	3
MAN009	Experimental Design & Statistical Analysis for Research	12	4
NSN103	Research Methods in Nursing	12	3
<b>Year 1, Semester 2</b>			
NSN104	Professional Issues in Nursing	12	3
NSN105	Medical/Surgical Nursing 1		
NSN108	Primary Health Care Nursing 1		
NSN111	Psychiatric/Mental Health Nursing 1	12	3
NSN114	Midwifery 1	12	3
NSN117	Gerontological Nursing 1		
NSN120	Child & Adolescent Nursing 1		



NSN106	Medical/Surgical Nursing 2	}	select one	12	3
NSN109	Primary Health Care Nursing 2				
NSN112	Psychiatric/Mental Health Nursing 2				
NSN115	Midwifery 2				
NSN118	Gerontological Nursing 2	}	select one	12	3
NSN206	Independent Study				
NSN301	Advanced Nursing Education 1				
NSN304	Advanced Nursing Management 1				
PUP115	Occupational Health & Safety Law & Management 1	}	select one	12	3
PUP116	Ergonomics				
PUP250	Occupational Hygiene				

## Part-Time Course Structure

**Credit  
Points**

**Contact  
Hrs/Wk**

### Year 1, Semester 1

NSN102	Concepts for Advanced Clinical Nursing	12	3
PUN601	Contemporary Health Care Issues	12	3

### Year 1, Semester 2

NSN104	Professional Issues in Nursing	12	3
NSN105	Medical/Surgical Nursing 1	}	select one
NSN108	Primary Health Care Nursing 1		
NSN111	Psychiatric/Mental Health Nursing 1		
NSN114	Midwifery 1		
NSN117	Gerontological Nursing 1		
NSN120	Child & Adolescent Nursing 1		

### Year 2, Semester 1

NSN405	Qualitative Research	12	
LSN150	Epidemiology & Research Strategies	12	3
NSN103	Research Methods in Nursing	12	3
MAN009	Experimental Design & Statistical Analysis for Research	12	4

### Year 2, Semester 2

NSN106	Medical/Surgical Nursing 2	}	select one	12	3
NSN109	Primary Health Care Nursing 2				
NSN112	Psychiatric/Mental Health Nursing 2				
NSN115	Midwifery 2				
NSN118	Gerontological Nursing 2				
NSN121	Child & Adolescent Nursing 2	}	select one	12	3
NSN206	Independent Study				
NSN301	Advanced Nursing Education 1				
NSN304	Advanced Nursing Management 1				
PNP116	Ergonomics				
PUP115	Occupational Health & Safety Law & Management	}	select one	12	3
PUP250	Occupational Hygiene				

**Note:** Students who commenced the course prior to 1993 should contact the course coordinator to review details of their enrolment program for 1993.

## ■ Graduate Diploma in Health Promotion (PU69)

**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 major areas in the course: compulsory units, professional units and elective units. All students are required to complete the compulsory units; however, with the approval of the course coordinator, PUP027 Independent Study (12 credit points) may be substituted for one of the compulsory units. Students can select professional units in the School or Community Health area. The scheduling of elective units is subject to staff availability and student demand.

Students should have access to school or community health settings or appropriate health organisations to enable work to be undertaken.

### Part-Time Course Structure (Commencing Students 1993)

	<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
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#### Year 1, Semester 1

PUP010	Health in Australian Society	12	3
PUP022	Health Promotion Concepts & Policies	12	3

#### Year 1, Semester 2

PUP007	Social & Behavioural Epidemiology	12	3
PUP024	Foundations of Health Education	12	3

### Continuing Students – transitional course structure

#### Year 2, Semester 1

PUP007	Social & Behavioural Epidemiology	12	3
PUP013	Health Education & the Change Process	12	3

#### Year 2, Semester 2

HMP015	School Health Program Planning OR	12	3
PUP017	Community Health Program Planning Elective Unit – Select one from List A	12 12	3

### List A: Elective Units

PUP018	Health Promotion Strategies	12	3
PUP021	Case Studies on Contemporary Health Issues	12	3
PUP027	Independent Study	12	-

\* Students who are unable to complete course requirements based on units offered should contact the course coordinator before enrolling in units offered in 1993.

## ■ 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 entry an applicant must:

- (i) hold a degree; and
- (ii) have studied two semesters each of systematic human physiology and metabolic biochemistry to second degree level. Second level nutrition studies are highly desirable.

#### SPECIAL ENTRY

Applicants not completely satisfying the unit requirements may apply upon completion of bridging courses prescribed by the course coordinator.

### 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 course coordinator, 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 successfully completed all units of the first and second semesters.

Field trips as detailed in Unit Synopses have an attendance requirement and will be assessed.

### Full-Time Course Structure

		Credit Points	Contact Hrs/Wk
<b>Year 1, Semester 1</b>			
PUP109	Nutrition	12	5
PUP110	Nutritional Epidemiology	12	5
PUP126	Clinical Dietetics 1	12	5
PUP140	Communication Theory & Practice for Health Professionals	12	3
	OR		
LSB558	Applied Physiology	12	5

**Note:** The decision as to which of these options is to be pursued will be made after consultation with the course coordinator. Those students with insufficient physiology studies are expected to take LSB558.

### **Year 1, Semester 2**

PUP127	Clinical Dietetics 2	12	5
PUP128	Practical Dietetics	12	5
PUP129	Food Service & Dietetic Management	12	5
PUP018	Health Promotion Strategies	12	3

### **Year 2, Semester 1**

PUP122	Practice in Clinical Dietetics	24	11 wks
PUP123	Practice in Community Nutrition	12	4 wks
PUP132	Practice in Food Service Management	12	3 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 Bruce Fleming

### **Entry Requirements**

#### **NORMAL ENTRY**

The normal entry requirement for the course is a bachelor 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.

<b>Part-Time Course Structure</b>		<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
<b>Year 1, Semester 1</b>			
MEP201	Safety Technology & Practice 1	12	3
PUP115	Occupational Health & Safety Law & Management 1	12	3
<b>Year 1, Semester 2</b>			
PUP116	Ergonomics	12	3
PUP215	Occupational Health & Safety Law & Management 2	12	3

**Year 2, Semester 1**

PUP301	Safety Technology & Practice 2	12	3
PUP415	Occupational Health	12	3

**Year 2, Semester 2**

PUP250	Occupational Hygiene	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 Unit Synopses have an attendance requirement and will be assessed.

**Full-Time Course Structure**

		<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	Human Anatomy & Physiology	12	5
LSB301	Microbiology 1	8	3

### **Year 2, Semester 2**

CNB172	Construction 2	8	4
CNB174	Material Science 2	4	2
CNB176	Structures 2	4	2
LSB431	Microbiology 2	8	3
PUB478	Food Science & Technology	12	5
PUB481	Pollution Science 2	12	5

### **Year 3 Semester 1**

CNB013	Building Services HVAC	4	2
PUB210	Occupational Health & Safety 1	8	4
PUB513	Epidemiology & Diseases	12	4
PUB518	Food Hygiene Studies	8	4
PUB520	Environmental Health Management 1	12	5
SVB101	Surveying & Measuring	4	2

### **Year 3, Semester 2**

CNB243	Law 1 - Building Acts & Regulations	5	2
CNB347	Hygiene & Sanitation	4	2
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

**Note:** Students who commenced this degree in 1991 should contact the course coordinator to review details of their enrolment program for 1993.

## **■ 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

<b>Course Structure</b>		<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
<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		

### Year 2, Semester 2

PUB472	Textile Science	12	4
PUB474	Food Studies	12	6
PUB476	Nutrition	12	4
PUB478	Food Science & Technology	12	5

### Year 3 Semester 1

PUB572	Apparel Design	12	5
PUB574	Family Resource Management	12	3
	Elective Unit	12	
	Elective Unit	12	
PUB576	Practicum 2		

### Year 3, Semester 2

PUB672	Research Methods	12	3
PUB674	Business Organisations	12	3
	Elective Unit	12	
	Elective Unit	12	

Elective Units (Subject to availability)		Credit Points	Contact Hrs/Wk
PUB328	Contemporary Influences on Health Status	12	3
PUB331	Shelter Design	12	4
PUB333	Shelter: Cultural & Historical Contexts	12	4
PUB347	Families in Other Cultures	12	4
PUB355	Food Service: Principles and Practices	12	4
PUB369	Textiles: Supervised Project	12	3
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 units offered by the School of Public Health and 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 1993.

## ■ Bachelor of Applied Science (Human Movement Studies) (HM42)

**Location:** Kelvin Grove campus

**Course Duration:** 4 years full-time

**Total Credit Points:** 384

**Standard Credit Points/Full-Time Semester:** 48

**Course Coordinator:** Dr Andrew Hills

### **Special Course Requirements**

Students must complete units totalling at least 384 credit points including the foundation unit (60 credit points), a major and minor study (168 credit points), elective units (60 credit points) and fourth year studies (96 credit points).

A major (120 credit points) must be completed in the discipline area of Exercise and Sport Science. This includes compulsory second level units (72 credit points) and four third level units (48 credit points) selected from Lists A or B.

Subject to appropriate prerequisite units being completed a minor may be undertaken in any approved discipline within QUT. Completion of a minor consists of passing units totalling at least 48 credit points from second and third levels (including at least 24 credit points at third level). Major and minor studies may be undertaken in the same or closely related discipline areas.

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 units of the course as may from time to time be determined by the Academic Board and approved by the Academic Committee.

All commencing students and certain continuing students are required to attend scheduled academic advisory sessions to plan their progression through the course, and to obtain approval of an academic adviser prior to effecting any change of enrolment.

**Note:** Students who have successfully completed 288 credit points and have met the general requirements for a three-year degree may graduate with a Bachelor of Applied Science.

<b>Full-Time Course Structure</b>		<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
<b>Year 1, Semester 1</b>			
HMB172	Lifespan, Growth & Motor Development	12	4
HMB173	Social & Psychological Dimensions of Physical Activity	12	3
LSB131	Anatomy	12	6
	Elective Unit	12	
<b>Year 1, Semester 2</b>			
HMB171	Fitness, Health & Wellness	12	3
HMB272	Biomechanics	12	4
LSB231	Physiology	12	6
	Elective Unit		
<b>Year 2, Semester 1</b>			
HMB271	Motor Control & Learning	12	4
HMB273	Exercise Physiology	12	4
HMB274	Functional Anatomy	12	4
HMB276	Research in Human Movement	12	4
<b>Year 2, Semester 2</b>			
	Minor Study 1		
	Major Study 1		
	Major Study 2		
HMB275	Exercise & Sport Psychology	12	3



### Year 3, Semester 1

Minor Study 2  
Major Study 3  
Major Study 3  
Elective Unit

### Year 3, Semester 2

Major Study 4  
Minor Study 4  
Elective Unit  
Elective Unit

### Year 4, Semester 1

HMB471	Project 1	12	3
HMB473	Practicum 1	12	3
	Advanced Elective Unit		
	Advanced Internal Elective Unit		

### Year 4, Semester 2

HMB472	Project 2	12	3
HMB474	Practicum 2	24	
PUB233	Information Education & Communication for Health	12	3

### Third Level Units

#### List A (Adapted, Developmental and Rehabilitative Focus)

HMB361	Functional Anatomy 2	12	4
HMB362	Biomechanics 2	12	4
HMB363	Independent Study	12	4
HMB364	Seminars in Human Movement	12	4
HMB371	Motor Control and Learning 2	12	3
HMB372	Biophysical Bases of Movement Rehabilitation	12	3
HMB374	Psychology of Rehabilitation	12	3
HMB375	Adapted Physical Activity	12	4
HMB376	Motor Development in Children	12	4
HMB377	Children in Sport	12	3

#### List B (Workplace Health Related Fitness Focus)

HMB361	Functional Anatomy 2	12	4
HMB362	Biomechanics 2	12	4
HMB363	Independent Study	12	4
HMB364	Seminars in Human Movement	12	4
HMB381	Exercise Physiology 2 (compulsory)	12	3
HMB382	Exercise Prescription (compulsory)	12	3
HMB383	Workplace Health	12	3
HMB384	Injury Prevention & Rehabilitation	12	3

**Note:** Students must complete at least four units from List A or four units from List B to complete the major study.

## ■ 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 Bruce Fleming

<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</b>			
ISB382	Microcomputer Applications	8	3
LSB242	Anatomy & Physiology	12	6
LSB301	Microbiology 1	8	3
MEB035	Safety Technology 1	8	3
PUB482	Occupational Health	12	4
<b>Year 2, Semester 2</b>			
CHB411	Environmental Analytical Chemistry	8	4
LSB431	Microbiology 2	8	3
PHB404	Safety Technology 2	12	6
PUB483	Ergonomics 1	8	3
PUB485	Occupational Hygiene 1	12	4
<b>Year 3, Semester 1</b>			
PUB512	Ergonomics 2	12	4
PUB513	Epidemiology & Diseases	12	4
PUB516	Occupational Health & Safety Practice 1	12	6
PUB585	Occupational Hygiene 2	12	6
<b>Year 3, Semester 2</b>			
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 units 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
LSB371	Biochemistry 4	8	4
OPB312	Visual Science 3	14	5
PHB340	Optics 3	12	7

### Year 2, Semester 2

LSB370	Disease Processes 4	4	2
LSB451	Human Physiology	12	7
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
OPB750/1	Project	5	2

**Year 4, Semester 2**

HRB132	Practice Management	4	2
OPB750/2	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  
(Commencing Students 1993)**

		<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
<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>			
CHB289	Organic & Physical Chemistry	8	4
LSB261	Systematic Anatomy	8	3

LSB331	Advanced Anatomy	8	6
MAB152	Quantitative Methods	8	3
PHB252	Kinesiology & Biomechanics	8	2
PHB262	Physics 2L	8	4

### Year 2, Semester 1

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

### Year 2, Semester 2

LSB470	Disease Processes 4	8	2
PUB306	Pharmacology	8	3
PUB404	Clinical Science 2	12	9
PUB421	Podiatric Medicine 2	12	6
SSB890	Psychology	8	3

### Year 3, Semester 1

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	9

### 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	12
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

**Course Coordinator:** Mr Paul Hindson

### 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

## Part-Time Course Structure

**Credit  
Points**

**Contact  
Hrs/Wk**

### Year 1, Semester 1

BSB102 Management & Organisation  
PUB130 Australian Health Industry

12 3  
12 3

### Year 1, Semester 2

EPB140 Macroeconomics  
HRB131 Personnel Management & Industrial Relations

12 3  
12 3

### Year 2, Semester 1

AYB105 Principles of Accounting  
OR  
AYB110 Accounting 1  
PUB233 Information, Education & Communication for Health

12 3  
12 4  
12 3

### Year 2, Semester 2

ALB110 Business Law  
EPB150 Microeconomics

12 3  
12 3

### Year 3, Semester 1

ISB892 Business Computing  
PUB531 Health Care Economics I

12 4  
12 3

### Year 3, Semester 2

PUB618 Health Computer Systems  
Elective Unit

12 4  
12

### Year 4, Semester 1

EPB163 Research & Survey Methods  
LWS001 Medicine & the Law

12 3  
12 3

### Year 4, Semester 2

PUB430 Applied Health Care Analysis  
PUB580 Health Administration Finance

12 3  
12 3

### Year 5, Semester 1

HRB130 Organisational Behaviour  
Elective Unit

12 3  
12

### Year 5, Semester 2

Elective Unit  
Elective Unit

12  
12

### Year 6, Semester 1

PUB600 Health Management 1  
PUB646 Health Services Planning

12 3  
12 3

### Year 6, Semester 2

PUB605 Health Management 2  
PUB634 Health Services Evaluation

12 3  
12 3

## HEALTH INFORMATION MANAGEMENT MAJOR\*

### Full-Time Course Structure

**Credit  
Points**

**Contact  
Hrs/Wk**

#### 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 OR Elective Unit	12	3
PUB430	Applied Health Care Analysis	12	3
LSB461	Fundamentals of Medicine 2	12	3
PUB499	Health Information Management 3	12	3

#### Year 3, Semester 1

AYB105	Principles of Accounting OR	12	3
PUB531	Health Care Economics 1	12	3
ISB892	Business Computing	12	4
PUB646	Health Services Planning Elective Unit	12	3

#### Year 3, Semester 2

PUB580	Health Administration Finance OR Elective Unit	12	3
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 Elective Units

Elective Units may be chosen from any degree course, subject to prerequisite requirements, availability of the unit in the timetable and approval of the Head of School.

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

\* *Note: Students in the Health Information Management Major are required to study:*

EPB150      Microeconomics AND  
AYB105      Principles of Accounting  
OR  
PUB531      Health Care Economics 1 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 units, undertaking the alternative pair as elective units.*

PUB431	Health Care Economics 2 (Second Semester)	12	3
PUB528	Health Administration Project (First & Second Semester)	12	3
PUB533	International Health Care Systems (First Semester)	12	3

## ■ 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:** Associate Professor Gail Hart

### 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.

### Elective Units

Students may select elective units (other than the identified nursing elective unit) either within or outside the School of Nursing. It will be necessary to seek approval from the appropriate School to enrol in elective units.

#### Nursing Elective Units

		<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
NSB150	Nursing Management	8	3
NSB349	Counselling & Crisis Management	8	3
NSB350	Health Education in Nursing	8	3
NSB450	Readings in Nursing	8	3

### Information on Elective Units

Where the course summary states electives, the following units are suggested as appropriate. Students are required to contact the relevant faculty for permission.

#### FACULTY OF EDUCATION

##### School of Early Childhood

EAB142	Language & Cognitive Aspects: B-8 Years KG	8	2
EAB144	Integrating the Exceptional Child in Early Childhood KG	8	2
EAB160	ESL in Early Childhood Settings KG	8	2
EAB161	Cultural Inclusivity in Early Childhood KG	8	2
EAB167	Children's Literature for Early Childhood Settings KG	8	3

##### SCHOOL OF SOCIAL, BUSINESS & ENVIRONMENTAL EDUCATION

SBB410	Consumer Education KG	12	3
SBB411	Social Education: Curriculum Development KG	12	3



SBB412	Social Education in the Curriculum KG	12	3
SBB440	Environmental Education KG	12	3

## SCHOOL OF CULTURAL AND POLICY STUDIES

### Bachelor of Education (Pre-Service)

CPB337	Gender & Education KG	12	3
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### Bachelor of Education (In-Service)

CPB420	Contemporary Issues in Education KG	12	3
CPB442	Education for a Multicultural Society KG	12	3
CPB444	Issues in Aboriginal Education (External) KG	12	3
CPB445	Career and Life Patterns of Women Teachers KG	12	3
CPB446	Women & Social Change in Australia KG	12	3

## FACULTY OF BUSINESS

### School of Accountancy and the School of Economics and Public Policy

AYB110	Accounting GP or KP	12	4
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Which would be followed by:

AYB100	Accounting for Managers GP or KP	12	3
AYB104	Principles of Accounting GP or KP	9	3
AYB111	Financial Accounting GP or KP	12	4
EPB106	Australian Economic History GP or KP	12	3
EPB116	Economic Principles GP or KP	12	3
EPB140	Macroeconomics GP or KP	12	3
EPB150	Microeconomics GP or KP	12	3
OR			

### School of Human Resource Management and Labour Relations

HRB131	Personnel Management & Industrial Relations GP or KP	12	3
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### General

BSB102	Management & Organisation GP or KP	12	3
EPB112	Critical Analysis GP or KP	12	3
EPB124	Government GP or KP	12	3
EPB131	International Politics & Business GP or KP	12	3

Not available:

HRB130	Organisational Behaviour	12	3
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## FACULTY OF LAW

The following elective units are **unavailable** to students who have completed LWS005 Law & Nursing:

LWB483	Medico-Legal Issues GP	12	3
LWS001	Medicine & the Law GP	12	3
LWS006	Health Ethics & the Law GP	12	3

### 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 Unit	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 Unit	8	
	Elective Unit	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		
NSB308	Nursing & Mental Disorder	8	3
NSB601	Research in Nursing Practice	8	3
	Elective Unit	8	
	Elective Unit	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 Unit	8	3

### **Year 2, Semester 1**

HUB003	Philosophy & Nursing 1	8	3
NSB504	Professional Issues in Nursing 1	8	3
	Elective Unit	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 Unit	8	

### **Year 3, Semester 1**

LSB191	Clinical Physiology & Pharmacology	8	3
	OR		
NSB308	Nursing & Mental Disorder	8	3
NSB304	Nursing & Culture	8	3
	Elective Unit	8	

### **Year 3, Semester 2**

NSB505	Professional Issues in Nursing 2	8	3
NSB601	Research in Nursing Practice	8	3
	Elective Unit	8	

<b>Full-Time Course Structure</b>		<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
<b>Advanced Standing Only (QUT Graduates)</b>			
<b>Semester 1</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 Unit	8	
<b>Part-Time Course Structure</b>		<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
<b>Advanced Standing Only (QUT Graduates)</b>			
<b>Semester 1</b>			
HUB003	Philosophy & Nursing 1	8	3
NSB304	Nursing & Culture	8	3
PUB109	Introduction to Environmental Health	8	3
<b>Semester 2</b>			
NSB505	Professional Issues in Nursing 2	8	3
NSB601	Research in Nursing Practice	8	3
	Elective Unit	8	
<b>Full-Time Course Structure</b>		<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
<b>Advanced Standing Only (Diplomates other than QUT)</b>			
<b>Semester 1</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 Unit	8	3
<b>Semester 2</b>			
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		
NSB308	Nursing & Mental Disorder	8	3
	OR		
PUB423	Food & Nutrition	8	3
	Elective Unit	8	
	Elective Unit	8	
<b>Part-Time Course Structure</b>		<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
<b>Advanced Standing Only (Diplomates other than QUT)</b>			
<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>			
LSB191	Clinical Physiology & Pharmacology	8	3
	OR		

NSB308	Nursing & Mental Disorder	8	3
	OR		
PUB423	Food & Nutrition	8	3
HUB004	Philosophy & Nursing 2	8	3
	Elective Unit	8	
<b>Year 2, Semester 1</b>			
LWS005	Law & Nursing	8	3
NSB601	Research in Nursing Practice	8	3
	Elective Unit	8	3
<b>Year 2, Semester 2</b>			
NSB207	Nursing & the Individual	8	3
	OR		
NSB406	Nursing & the Family	8	3
	OR		
NSB407	Nursing & the Community	8	3
NSB505	Professional Issues in Nursing 2	8	3
	Elective Unit	8	

## ■ 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:** Associate Professor Gail Hart

### 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 units each consist of a two-week period of continuous practice following the relevant semester.

<b>Full-Time Course Structure</b>		<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
<b>Year 1, Semester 1</b>			
LSB181	Anatomy	8	3
NSB114	Clinical Practice 1A	8	3
NSB115	Clinical Practice 1B	8	
NSB151	Foundations of Nursing Practice 1	8	3
PUB109	Introduction to Environmental Health	8	3
SSB905	Psychology for Health Professionals	8	3
<b>Year 1, Semester 2</b>			
LSB251	Microbiology	8	3
LSB281	Physiology & Pharmacology	8	3
NSB152	Foundations of Nursing Practice 2	8	3
NSB214	Clinical Practice 2A	8	3

NSB215	Clinical Practice 2B	8	
SSB906	Sociology for Health Professionals	8	3

## Year 2

Students entering the Year 2 program have been allocated to 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

LSB191	Clinical Physiology & Pharmacology	8	3
LWS005	Law & Nursing	8	3
NSB301	Nursing & Biophysical Health 1	8	3
NSB304	Nursing & Culture	8	3
NSB360	Clinical Practice 3A/BH	8	3
NSB361	Clinical Practice 3B/BH	8	
	OR		

#### MENTAL HEALTH AREA

HUB003	Philosophy & Nursing 1	8	3
NSB304	Nursing & Culture	8	3
NSB370	Clinical Practice 3A/MH	8	3
NSB371	Clinical Practice 3B/MH	8	
NSB402	Nursing & Mental Health 2	8	3
PUB423	Food & Nutrition	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
NSB460	Clinical Practice 4A/BH	8	3
NSB461	Clinical Practice 4B/BH	8	
PUB423	Food & Nutrition	8	3
	OR		

#### MENTAL HEALTH AREA

LWS005	Law & Nursing	8	3
NSB302	Nursing & Mental Health 1	8	3
NSB308	Nursing & Mental Disorder	8	3
NSB407	Nursing & the Community	8	3
NSB470	Clinical Practice 4A/MH	8	3
NSB471	Clinical Practice 4B/MH	8	

## 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

HUB004	Philosophy & Nursing 2	8	3
LSB191	Clinical Physiology & Pharmacology	8	3
NSB301	Nursing & Biophysical Health 1	8	3
NSB504	Professional Issues in Nursing 1	8	3
NSB560	Clinical Practice 5A/BH	8	3
NSB561	Clinical Practice 5B/BH	8	
	OR		

#### MENTAL HEALTH AREA

NSB302	Nursing & Mental Health 1	8	3
NSB308	Nursing & Mental Disorder	8	3
NSB406	Nursing & the Family	8	3

NSB407	Nursing & the Community	8	3
NSB505	Professional Issues in Nursing 2	8	3
NSB570	Clinical Practice 5A/MH	8	3
NSB571	Clinical Practice 5B/MH	8	

### Year 3, Semester 2

#### BIOPHYSICAL HEALTH AREA

NSB401	Nursing & Biophysical Health 2	8	3
NSB406	Nursing & the Family	8	3
NSB505	Professional Issues in Nursing 2	8	3
NSB601	Research in Nursing Practice	8	3
NSB660	Clinical Practice 6A/BH	8	3
NSB661	Clinical Practice 6B/BH	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
NSB670	Clinical Practice 6A/MH	8	3
NSB671	Clinical Practice 6B/MH	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	
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	

### Year 2

Students entering the Year 2 program have been allocated to 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.

**Credit Points**      **Contact Hrs/Wk**

#### BIOPHYSICAL HEALTH AREA

#### Year 2, Semester 1

LSB191	Clinical Physiology & Pharmacology	8	3
LWS005	Law & Nursing 1	8	3
NSB304	Nursing & Culture	8	3

**Year 2, Semester 2**

HUB003	Philosophy & Nursing 1	8	3
NSB406	Nursing & the Family	8	3
PUB423	Food & Nutrition	8	3

**Year 2, Semester 3**

NSB301	Nursing & Biophysical Health 1	8	3
NSB360	Clinical Practice 3A/BH	8	3
NSB361	Clinical Practice 3B/BH	8	

**Year 2, Semester 4**

NSB401	Nursing & Biophysical Health 2	8	3
NSB460	Clinical Practice 4A/BH	8	3
NSB461	Clinical Practice 4B/BH	8	
	OR		

**MENTAL HEALTH AREA****Year 2, Semester 1**

LWS005	Law & Nursing	8	3
NSB304	Nursing & Culture	8	3
NSB308	Nursing & Mental Disorder	8	3

**Year 2, Semester 2**

HUB003	Philosophy & Nursing 1	8	3
NSB407	Nursing & the Community	8	3
PUB423	Food & Nutrition	8	3

**Year 2, Semester 3**

NSB302	Nursing & Mental Health 1	8	3
NSB370	Clinical Practice 3A/MH	8	3
NSB371	Clinical Practice 3B/MH	8	

**Year 2, Semester 4**

NSB402	Nursing & Mental Health 2	8	3
NSB470	Clinical Practice 4A/MH	8	3
NSB471	Clinical Practice 4B/MH	8	

**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

■ Master of Applied Science (Research) (IT84) .....	501
■ Master of Applied Science (Computing) (CS36) .....	501
■ Master of Information Technology (IS50) .....	504
■ Graduate Diploma in Business (Information Systems) (IS18) .....	506
■ Graduate Diploma in Commercial Computing (IS04) .....	506
■ Graduate Diploma in Computing Science (CS19) .....	507
■ Graduate Diploma in Information Systems (IS24) .....	509
■ Graduate Diploma in Library and Information Studies (IS25) .....	510
■ Graduate Diploma in Library Science (IS65) .....	512
■ Bachelor of Applied Science (Computing) (Honours) (CS55) .....	513
■ Bachelor of Business (Computing) (Honours) (IS61) .....	514
■ Bachelor of Information Technology (IT20) .....	515
■ Common First Year: Bachelor of Business (Computing), Bachelor of Applied Science (Computing) (IT32) .....	522
■ Bachelor of Applied Science (Computing) (CS28) .....	523
■ Bachelor of Applied Science (Computing) (IS28) .....	524
■ Bachelor of Business (Computing) (IS10) .....	526
■ Bachelor of Business (Information Management) (IS43) .....	528
■ Associate Diploma in Business (Computing) (IS08) .....	530

# 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 units 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 unit and ignoring all units for which the best result is a 2 or a 1. A student may repeat any unit 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. Students should make sure they obtain a copy of the Faculty's Student Information Booklet, which is distributed at the beginning of each semester.

### 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. Students will be required to sign a code of conduct on the use of these facilities.

### Cooperative Education Program (Elective Unit ITB904 – Industrial Training Experience)

#### AIMS

The purpose of the Cooperative Education Program is to provide students within the Bachelor of Information Technology 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 the Bachelor of Information Technology, and either passed all units 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 unit ITB904 Industrial Training Experience and has the following features:

- ☐ The Faculty assists students to obtain suitable employment for the one-year period and also discusses the nature of the work to be undertaken with the employer. As employers choose their placements from interviews, the Faculty also arranges for students to attend sessions on interview techniques conducted by the Counselling Centre.
- ☐ An academic member of staff normally visits the student once per semester and discusses progress with the student and a representative of the employer.
- ☐ During the training period the student writes two reports on the experience, submits them to the employer for endorsement and comment, and then hands them to the 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 24 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 ITB904 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 unit per semester during that year.

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

## ■ Master of Applied Science (Research) (IT84)

See entry under University-wide and Interfaculty Courses.

**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 George Mohay

The units below have been devised to represent the EFTSU (Effective Full-Time Student Unit) and attendance type of graduate research students.

You should enrol in the relevant unit in **each** semester of your masters enrolment. At the end of each semester your result in the unit will show as 'T' – Assessment Continues. A final grade (Satisfactory/Unsatisfactory) will be given once the thesis has been examined according to the degree rules.

If you are required to, or if you elect to, undertake additional units as part of your doctoral enrolment, you should **not** enter these units on your enrolment form. Please attach an additional sheet to your enrolment form listing the additional units so that appropriate arrangements can be made. These additional units will not appear on your Enrolment Statement but your enrolment will be confirmed in due course.

### Course Structure

#### Semesters 1 and 2

Full-time students enrol in either:

IFN100      Full-Time Masters Research

or, in instances where a candidate has exceeded the normal course duration and an extension of time has been approved:

IFN101      Full-Time Masters Research (extension)

Part-time students enrol in either:

IFN200      Part-Time Masters Research

or, in instances where a candidate has exceeded the normal course duration and an extension of time has been approved:

IFN201      Part-Time Masters Research (extension)

## ■ 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:** Mr Shlomo Gera

## 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. The minimum level of performance expected within prerequisite studies is a grade point average (GPA) of 4.50 on a 7 point scale (or its equivalent). Selection may be determined on an individual basis and is subject to the approval of the Head, School of Computing Science.

Students may be eligible for exemptions on the basis of equivalent units 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. 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 unit components. The student intake is heterogeneous and some students may need to undertake advanced undergraduate units as prerequisites for core units. A maximum of 48 credit points from these undergraduate prerequisites may be credited towards completion of the course.

## Course Structure

### Core Units

**Credit  
Points**

**Contact  
Hrs/Wk**

The core component comprises six units (72 credit points) and for students with all necessary prerequisite qualifications these units are undertaken in the first four semesters of the part-time course. The six mandatory units are:

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

### Project Units

The project component comprises four to six semester units (48 - 72 credit points) depending upon student choice. CSN450 (a two-semester project) must be included in this component.

CSN301	Minor Project	12	
CSN302	Minor Project	12	
CSN303	Minor Project	12	
CSN304	Minor Project	12	
CSN450	Major Project	24	

### Elective Units

The number of elective units taken by an individual student depends upon the number of prerequisite units undertaken and the number of projects selected. A minimum of two elective units (24 credit points) must be selected and a maximum of six (72 credit points) may be selected. The offering of elective units in any semester depends on sufficient minimum enrolments in the unit and the availability of staff. The choice of all elective units is subject to the approval of the relevant Head of School.

#### FIRST SEMESTER ELECTIVE UNITS

CSN340	Compiler Laboratory	12	3
CSN350	Advanced Graphics 1	12	3
CSN380	Neural Networks – Library Science	12	3
ISN300	Information Systems 2	12	3
ITN519	Advanced Data Communications	12	3

## SECOND SEMESTER ELECTIVE UNITS

CSN300	Theory of Computing 2	12	3
CSN310	Parallel Processing	12	3
CSN360	Advanced Graphics 2	12	3
CSN370	Special Topic – Library Science	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 units are offered during the day. Full-time students may be required to attend a number of evening classes.

### Part-Time Course Structure Suggested Sequence

Credit Points	Contact Hrs/Wk
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#### Year 1, Semester 1

CSN210	Distributed Systems	12	3
ITN502	Computer Security	12	3

#### Year 1, Semester 2

CSN110	Compiler Construction	12	3
ISN100	Information Systems 1	12	3

#### Year 2, Semester 1

CSN220	Artificial Intelligence	12	3
	Elective Unit	12	3

#### Year 2, Semester 2

CSN100	Theory of Computing 1	12	3
	Elective Unit	12	3

#### Year 3, Semester 1

CSN301	Minor Project	12	
	Elective Unit	12	3

#### Year 3, Semester 2

CSN302	Minor Project	12	
	Elective Unit	12	3

#### Year 4, Semester 1

CSN450	Major Project*	24	
	Elective Unit	12	3

#### Year 4, Semester 2

	Elective Unit	12	3
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**Note:** The four university participants in the Distributed Systems Technology Centre (QUT, Griffith University, Bond University and the University of Queensland) have agreed on a common content for a masters degree in distributed systems technology. It is possible to choose a course program and elective units in CS36 which conform with this common content. Students interested in this program should consult with the course coordinator. This program will include elective units taken at the other institutions.

\* Unit extends over two semesters.

## ■ 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:** Ms Alison Anderson

### 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 on a 7 point grading scale (or its equivalent). 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.

Students may be eligible for exemptions on the basis of equivalent units 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.

### Course Structure

The course structure comprises core, project and elective unit components. The student intake is heterogeneous and some students may need to undertake advanced undergraduate units which are prerequisites for core units. A maximum of 48 credit points from these undergraduate prerequisites may be credited towards completion of the course.

#### Core Units

		<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
The core component comprises two units (24 credit points) and for students with all necessary prerequisite qualifications, these units are undertaken in the first semester of the course.			
ISN200	Major Issues in Information Technology	12	3
ISN201	Research Methodology	12	

#### Project Units

The project component comprises 48-96 credit points, depending upon student choice; ie. four minor projects (12 credit points each), one minor project per semester; or a major project (48 credit points), to be completed within the last two semesters of the full-time course or the last four semesters of the part-time course; or a dissertation (96 credit points), to be completed within the last two semesters of the full-time course or the last four semesters of the part-time course.

ISN301	Minor Project	12
ISN302	Minor Project	12
ISN303	Minor Project	12
ISN304	Minor Project	12
	OR	



**for full-time students:**

ISN401	Major Project	48
	OR	
ISN500	Dissertation	96

**for part-time students:**

ITN296	Major Project	48
	OR	
ITN298	Dissertation	96

**Elective Units**

The number of elective units taken by a student depends upon the number of prerequisite units undertaken and the number of project units selected. A minimum of six elective units (72 credit points) must be selected and a maximum of 10 (120 credit points) may be selected. The offering of elective units in any semester depends on sufficient minimum enrolments in the unit and the availability of staff. The choice of all elective units is subject to the approval of the relevant Head of School.

**FIRST SEMESTER ELECTIVE UNITS**

ISN110	Formal Systems Specification	12	3
ISN130	Object-Oriented 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
ISN240	Classification	12	3
ITN502	Computer Security	12	3
ITN519	Advanced Data Communications	12	3

**SECOND SEMESTER ELECTIVE UNITS**

ISN100	Information Systems 1	12	3
ISN120	Database Systems	12	3
ISN160	Knowledge-Based Systems	12	3
ISN170	Special Studies	12	3
ISN220	Business Competitor Intelligence	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
ISN290	Current Advances in Database Technology	12	3
ITN550	Computer Security Risk Modelling	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 Information Systems. Not all units are offered during the day. Full-time students may be required to attend a number of evening classes.

**Part-Time Course Structure**

Sample Sequence:		Credit Points	Contact Hrs/Wk
<b>Year 1, Semester 1</b>			
ISN200	Major Issues in Information Technology	12	3
ISN201	Research Methodology	12	3
<b>Year 1, Semester 2</b>			
	Elective Unit	12	3
	Elective Unit	12	3

**Year 2, Semester 1**

Elective Unit	12	3
Elective Unit	12	3

**Year 2, Semester 2**

Elective Unit	12	3
Elective Unit	12	3

**Year 3, Semester 1**

ISN301	Minor Project	12	
	Elective Unit	12	3

**Year 3, Semester 2**

ISN302	Minor Project	12	
	Elective Unit	12	3

**Year 4, Semester 1**

ISN303	Minor Project	12	
	Elective Unit	12	3

**Year 4, Semester 2**

ISN304	Minor Project	12	
	Elective Unit	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:** Mr Hamish Bentley

### Professional Recognition

This course is accredited by the Australian Computer Society.

### 1993 Enrolments – Continuing Students Only

There has been 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 Alan Tickle

## 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.

## 1993 Enrolments – Continuing Students Only

There will be no intake into this course from 1993; it has been replaced by the Graduate Diploma in Information Systems (IS24).

### Part-Time Course Structure Continuing Students Only

	Credit Points	Contact Hrs/Wk
<b>Year 2, Semester 1</b>		
Elective Unit	12	3
Elective Unit	12	3
<b>Year 2, Semester 2</b>		
Elective Unit	12	3
Elective Unit	12	3

### Elective Units

The offering of elective units in any semester depends on sufficient minimum enrolments in the unit and the availability of staff. The choice of all elective units is subject to the approval of the relevant Head of School.

Elective units to the value of at least 48 credit points are to be chosen on the advice of the course coordinator, from units offered in the Bachelor of Information Technology (IT20).

## ■ 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 tertiary institution; applicants with undergraduate degrees or diplomas which include significant studies in computing are not eligible for admission into the course;
- (ii) have completed, at a degree level, an introductory level programming unit using Pascal, Modula-2 or Ada (the equivalent of at least three hours per week for one semester). Applicants whose degrees have not included this unit must complete this unit as a visiting student before entering the course.

In addition, an introductory tertiary level unit 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		Credit Points	Contact Hrs/Wk
<b>Year 1, Semester 1</b>			
ITP201	Foundations of Information Modelling	12	3
ITP411	Systems Architecture & Operating Systems	12	3
ITP412	Software Principles	12	3
ITP413	ADTS in a C/Unix Environment	12	3
<b>Year 1, Semester 2</b>			
ITP460	Project	12	
	Elective Unit	12	3
	Elective Unit	12	3
	Elective Unit	12	3

**Note: Not all units are offered during the day. Full-time students may be required to attend evening classes.**

Part-Time Course Structure Commencing Students Only		Credit Points	Contact Hrs/Wk
<b>Year 1, Semester 1</b>			
ITP201	Foundations of Information Modelling	12	3
ITP412	Software Principles	12	3
<b>Year 1, Semester 2</b>			
ITP411	Systems Architecture & Operating Systems	12	3
ITP413	ADTS in a C/Unix Environment	12	3
<b>Year 2, Semester 1</b>			
	Elective Unit	12	3
	Elective Unit	12	3
<b>Year 2, Semester 2</b>			
ITP460	Project	12	
	Elective Unit	12	3
Part-Time Course Structure Continuing Students Only		Credit Points	Contact Hrs/Wk
<b>Year 2, Semester 1</b>			
	Elective Unit	12	3
	Elective Unit	12	3
<b>Year 2, Semester 2</b>			
ITP413	ADTS in a C/Unix Environment	12	3
ITP460	Project	12	

## Elective Units

The offering of elective units in any semester depends on sufficient minimum enrolments in the unit and the availability of staff. The choice of all elective units is subject to the approval of the relevant Head of School. Elective units may be selected from the following list:

## FIRST SEMESTER ELECTIVE UNITS

ITB220	Database Design	12	3
ITB222	Systems Analysis & Design 1	12	3
ITB232	Database Management	12	3
ITB424	Software Engineering	12	3
ITB431	Programming Language Paradigms	12	3
ITB441	Graphics	12	3
ITB442	Artificial Intelligence	12	3
ITB448	Object-Oriented Programming	12	3
ITB520	Data Communications	12	3
ITP200	Applications Programming	12	3
ITP470	Project	12	
ITP480	Project*	12	

## SECOND SEMESTER ELECTIVE UNITS

ITB220	Database Design	12	3
ITB224	Systems Analysis & Design 2	12	3
ITB232	Database Management	12	3
ITB440	Languages & Language Processing	12	3
ITB443	Systems Programming	12	3
ITB520	Data Communications	12	3
ITB523	Data Security	12	3
ITP480	Project*	12	
ITP481	Project*	24	

\* A 24 credit point project may be undertaken across two semesters (ITP480 Project) or in one semester (ITP481 Project), subject to approval from the course coordinator. This Project, ITP480 or ITP481, replaces the core Project ITP460 and one 12 credit point elective unit.

## ■ Graduate Diploma in Information Systems (IS24)

**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 Alan Tickle

### Entry Requirements

An applicant seeking admission into the Graduate Diploma in Information Systems is required to:

- hold a degree or a three-year diploma in a discipline other than computing from a recognised tertiary institution; applicants with undergraduate degrees or diplomas which include significant studies in computing are not eligible for admission to this course;
- have completed, at a degree level, an introductory unit in Pascal or some similar structured programming language (the equivalent of at least three hours per week for one semester). Applicants whose degrees have not included an introductory computing unit must complete this unit as a visiting student before entering the course.

### Professional Recognition

This course will be accredited by the Australian Computer Society as meeting the knowledge requirements associated with the grade of 'Member' of the Society.

Full-Time Course Structure	Credit Points	Contact Hrs/Wk
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#### Year 1, Semester 1

ITP200	Applications Programming	12	3
ITP201	Foundations of Information Modelling	12	3
ITP202	Systems Analysis & Design	12	3
	Elective Unit	12	3

#### Year 1, Semester 2

ITP203	Applications Development	12	3
	Elective Unit	12	3
	Elective Unit	12	3
	Elective Unit	12	3

Part-Time Course Structure	Credit Points	Contact Hrs/Wk
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#### Year 1, Semester 1

ITP200	Applications Programming	12	3
ITP201	Foundations of Information Modelling	12	3

#### Year 1, Semester 2

ITP202	Systems Analysis & Design	12	3
	Elective Unit	12	3

#### Year 2, Semester 1

	Elective Unit	12	3
	Elective Unit	12	3

#### Year 2, Semester 2

ITP203	Applications Development	12	3
	Elective Units	12	3

### Elective Units

Elective units are to be chosen on the advice of the course coordinator from the units offered in the Bachelor of Information Technology (IT20).

## ■ Graduate Diploma in Library and Information Studies (IS25)

**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 Jeanne Owen

## Entry Requirements

To be eligible for admission to the Graduate Diploma in Library and Information Science, applicants are required to have a degree or a three-year diploma from a recognised tertiary institution in a discipline other than library science and to have successfully completed a degree level introductory computing unit (the equivalent of at least three hours per week for one semester). Applicants whose degrees have not included this introductory computing unit must complete this unit 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.

## Course Structure

Students continuing in the Graduate Diploma in Library Science (IS65) should note that only unit codes have changed; unit titles and content remain unchanged. Such students are therefore to enrol in the units they require to complete the course under the new codes.

### Full-Time Course Structure

		<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
<b>Semester 1</b>			
ITP201	Foundations of Information Modelling	12	3
ITP311	Collection Building & Acquisitions	12	3
ITP312	Organisation of Knowledge	12	3
ITP313	Information Sources & Services	12	3
<b>Semester 2</b>			
ITP314	Online Information Services	12	3
ITP315	Library Programs Management	12	3
ITP316	Field Experience	4	
	Elective Unit	12	3
	Elective Unit	8	2

### Part-Time Course Structure

		<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
<b>Year 1, Semester 1</b>			
ITP201	Foundations of Information Modelling	12	3
ITP311	Collection Building & Acquisitions	12	3
<b>Year 1, Semester 2</b>			
ITP314	Online Information Services	12	3
ITP315	Library Programs Management	12	3
<b>Year 2, Semester 1</b>			
ITP312	Organisation of Knowledge	12	3
ITP313	Information Sources & Services	12	3
<b>Year 2, Semester 2</b>			
ITP316	Field Experience	4	
	Elective Unit	12	3
	Elective Unit	8	2

## SECOND SEMESTER ELECTIVE UNITS

The offering of elective units depends on sufficient minimum enrolments in the unit and the availability of staff. Elective units may be chosen from the list below. Alternatively, students may choose from any of the units offered in the Graduate Diploma in Education (Teacher-Librarianship) subject to the approval of that course coordinator; or choose

units from the Information Management major in the Bachelor of Information Technology (IT20) on the advice of the course coordinator; or any other appropriate unit may be taken with the approval of the Head of School.

ITP317	Library Services to Young People	12	3
ITP318	Advanced Organisation of Knowledge	12	3
ITP319	Government Documents	12	3
ITP320	Special Topic – Library Science	12	3
ITP321	Special Topic – Library Science	8	2
ITP322	Individual Study	8	2
ITP323	Introduction to Records Management	8	2
ITP324	Library Programs & Services	8	2

## ■ 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 Jeanne Owen

### Course Structure

Students continuing in the Graduate Diploma in Library Science (IS65) should note that only unit codes have changed; unit titles and content remain unchanged. Such students are therefore to enrol in the units they require to complete the course under the new codes.

Part-Time Course Structure Continuing Students Only		Credit Points	Contact Hrs/Wk
<b>Year 2, Semester 1</b>			
ITP312	Organisation of Knowledge	12	3
ITP313	Information Sources & Services	12	3
<b>Year 2, Semester 2</b>			
ITP316	Field Experience	4	
	Elective Unit	12	3
	Elective Unit	8	2

### SECOND SEMESTER ELECTIVE UNITS

The offering of elective units depends on sufficient minimum enrolments in the unit and the availability of staff. Elective units may be chosen from the list below. Alternatively, students may choose from any of the units offered in the Graduate Diploma in Education (Teacher-Librarianship) subject to the approval of that course coordinator; or choose units from the Information Management major in the Bachelor of Information Technology (IT20) on the advice of the course coordinator; or any other appropriate unit may be taken with the approval of the Head of School.

ITP317	Library Services to Young People	12	3
ITP318	Advanced Organisation of Knowledge	12	3
ITP319	Government Documents	12	3
ITP320	Special Topic – Library Science	12	3
ITP321	Special Topic – Library Science	8	2
ITP322	Individual Study	8	2
ITP323	Introduction to Records Management	8	2
ITP324	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:** Mr Shlomo Geva

### 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 on a 7 point scale (or its equivalent), including grades of at least credit in all units 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>			
CSN202	Project*	24	
CSN210	Distributed Systems	12	3
ITN502	Computer Security	12	3
	Elective Unit	12	3
<b>Semester 2</b>			
CSN100	Theory of Computing 1	12	3
CSN110	Compiler Construction	12	3
	Elective Unit	12	

### Elective Units

The offering of elective units in any semester depends on sufficient minimum enrolments in the unit and the availability of staff. The choice of all elective units is subject to approval by the relevant Head of School.

One elective unit per semester is to be chosen from the following:

#### FIRST SEMESTER ELECTIVE UNITS

CSN220	Artificial Intelligence	12	3
CSN340	Compiler Laboratory	12	3
CSN350	Advanced Graphics 1	12	3
CSN380	Neural Networks - Library Science	12	3
ISN300	Information Systems 2	12	3
ITN519	Advanced Data Communications	12	3

#### SECOND SEMESTER ELECTIVE UNITS

CSN300	Theory of Computing 2	12	3
CSN310	Parallel Processing	12	3

\* Unit extends over two semesters.

CSN370	Special Topic - Library Science	12	3
ISN100	Information Systems I	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:** Ms Alison Anderson

### 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 on a 7 point scale (or its equivalent), including grades of at least credit in all units 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>			
ISN110	Formal Systems Specification	12	3
ISN201	Research Methodology	12	3
ITN502	Computer Security	12	3
	Elective Unit	12	3
<b>Semester 2</b>			
ISN100	Information Systems I	12	3
ISN120	Database Systems	12	3
ISN211	Honours Project	12	
	Elective Unit	12	3

### Elective Units

The offering of elective units in any semester depends on sufficient minimum enrolments in the unit and the availability of staff. The choice of all elective units is subject to approval by the relevant Head of School.

Elective units may be chosen from the following:

#### FIRST SEMESTER ELECTIVE UNITS

ISN130	Object-Oriented Systems	12	3
ISN170	Special Studies	12	3

#### SECOND SEMESTER ELECTIVE UNITS

ISN160	Knowledge-Based Systems	12	3
ITN550	Computer Security Risk Modelling	12	3

or from:

- ☐ any Faculty of Information Technology masters unit
- ☐ any QUT Faculty of Business postgraduate unit
- ☐ any QUT Faculty of Business undergraduate unit from the fifth or sixth semester of a normal full-time course.

## ■ Bachelor of Information Technology (IT20)

**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 Mike Roggenkamp

### Professional Recognition

This course will be accredited by the Australian Computer Society as meeting the knowledge requirements associated with the grade of 'Member' of the Society.

### Course Structure

The course structure divides into three blocks of equal weight (ie. 96 credit points each). All students will undertake the Foundation Year of the course; this year makes up one block of the course (96 credit points).

At the end of this year, students will choose a Primary Major, in either Computing Science, Information Management or Information Systems. The Primary Major makes up the second block of the course and extends from the second to the third year; it is worth 96 credit points.

Students also choose the make-up of the third block of the course. They can undertake a secondary major (96 credit points); an extended major (48 credit points) with a minor (48 credit points); or two minors (48 credit points each). The third block also extends over the second and third year of the course.

### FOUNDATION YEAR

#### Full-Time Course Structure

		Credit Points	Contact Hrs/Wk
<b>Year 1, Semester 1</b>			
ITB101	Laboratory 1 (Computing Environments)	12	3
ITB210	Formal Representation	12	3
ITB310	Information Management 1	12	3
ITB410	Software Development 1	12	3
<b>Year 1, Semester 2</b>			
BSB103	Business Communications & Applications	12	3
ITB102	Laboratory 2 (Computer Applications)	12	3
ITB411	Software Development 2	12	3
ITB412	Technology of Information Systems	12	3

Part-Time Course Structure		Credit Points	Contact Hrs/Wk
<b>Year 1, Semester 1</b>			
ITB101	Laboratory 1 (Computing Environments)	12	3
ITB210	Formal Representation	12	3
<b>Year 1, Semester 2</b>			
BSB103	Business Communications & Applications	12	3
ITB410	Software Development 1	12	3
<b>Year 2, Semester 1</b>			
ITB310	Information Management 1	12	3
ITB412	Technology of Information Systems	12	3
<b>Year 2, Semester 2</b>			
ITB102	Laboratory 2 (Computer Applications)	12	3
ITB411	Software Development 2	12	3

At the end of this Foundation Year, students choose a Primary Major, either in Computing Science, Information Management or Information Systems. Course structures for these Primary Majors, showing Primary Major and a sample third block, ie the Extended Major with one Minor, are given below.

### Cooperative Education Program

An optional one-year paid work experience is available to eligible students at the end of the second year of full-time study. Information on this Cooperative Education Program is given in the Faculty of Information Technology's section of the Handbook under Information for all Information Technology Students.

### COMPUTING SCIENCE PRIMARY MAJOR

**Coordinator:** to be announced

Full-Time Course Structure		Credit Points	Contact Hrs/Wk
<b>Year 2, Semester 1</b>			
ITB420	Computer Architecture	12	3
ITB421	Data Structures & Algorithms	12	3
ITB422	Laboratory 3 (ADTS in a Unix environment)	12	3
ITB520	Data Communications	12	3
<b>Year 2, Semester 2</b>			
ITB423	Laboratory 4 (Software Development)	12	3
ITB424	Software Engineering	12	3
ITB440	Languages & Language Processing#	12	3
	Minor Unit	12	3
<b>Year 3, Semester 1</b>			
ITB430	Concurrent Systems	12	3
ITB431	Programming Language Paradigms	12	3
	Elective Unit#	12	3
	Minor Unit	12	3
<b>Year 3, Semester 2</b>			
ITB446	Project#	12	
	Elective Unit#	12	3
	Minor Unit	12	3
	Minor Unit	12	3

## Part-time Course Structure

### Year 3, Semester 1

ITB520	Data Communications	12	3
	Minor Unit	12	3

### Year 3, Semester 2

ITB421	Data Structures & Algorithms	12	3
ITB422	Laboratory 3 (ADTS in a Unix environment)	12	3

### Year 4, Semester 1

ITB440	Languages & Language Processing#	12	3
	Minor Unit	12	3

### Year 4, Semester 2

ITB420	Computer Architecture	12	3
ITB431	Programming Language Paradigms	12	3

### Year 5, Semester 1

ITB423	Laboratory 4 (Software Development)	12	3
ITB424	Software Engineering	12	3

### Year 5, Semester 2

ITB430	Concurrent Systems	12	3
	Minor Unit	12	3

### Year 6, Semester 1

	Minor Unit	12	3
	Elective Unit	12	3

### Year 6, Semester 2

ITB446	Project#	12	
	Elective Unit	12	3

# Denotes extended major units. These units can be replaced with another set of minors or these units and the minor units can be replaced with a secondary major. Possible minors are given at the end of this course section.

## PRE-HONOURS EXTENDED COMPUTING SCIENCE MAJOR

A pre-honours extended major will be available for selected students in the second semester of their second year of study, in place of the extended major. This extended major will prepare students for Honours and higher-level studies; it comprises the following units:

ITB440	Languages & Language Processing	12	3
ITB450	Advanced Computer Architecture	12	3
ITB452	Project Work	24	

## Elective Units

The extended major is made up of two core units, ITB440 Languages and Language Processing and ITB446 Project, and two elective units chosen from the list below. The offering of any elective units in any semester depends on sufficient minimum enrolments in the unit and the availability of staff.

## FIRST SEMESTER ELECTIVE UNITS

ITB441	Graphics	12	3
ITB442	Artificial Intelligence	12	3
ITB443	Systems Programming	12	3
ITB444	Special Studies I	12	3
ITB447	Project	12	
ITB448	Object-Oriented Programming	12	3
ITB451	Project*	24	

## SECOND SEMESTER ELECTIVE UNITS

ITB443	Systems Programming	12	3
ITB445	Special Studies 2	12	3
ITB449	Expert Systems	12	3
ITB451	Project*	24	
ITB453	Project*	24	
ITB523	Data Security	12	3
MAB172	Quantitative Methods 1B	12	3

\* A 24 credit point project may be undertaken across two semesters (ITB451 Project) or in one semester (ITB453 Project), subject to approval from the course coordinator. This Project, ITB451 or ITB453, replaces the core Project ITB446 in the extended major and one elective unit.

## INFORMATION MANAGEMENT PRIMARY MAJOR

**Coordinator:** Mr Michael Middleton

Full-Time Course Structure		Credit Points	Contact Hrs/Wk
<b>Year 2, Semester 1</b>			
ITB220	Database Design	12	3
ITB320	Laboratory 3 (Database Applications)	12	3
ITB321	Systems Analysis	12	3
ITB322	Information Resources	12	3
<b>Year 2, Semester 2</b>			
ITB323	Laboratory 4 (Information Support Methods)	12	3
ITB520	Data Communications	12	3
SSB937	Applied Cognitive Psychology#	12	3
	Minor Unit	12	3
<b>Year 3, Semester 1</b>			
ITB330	Information Issues & Values	12	3
ITB331	Information Management 2 (Analysis & Use)	12	3
	Minor Unit	12	3
	Minor Unit	12	3
<b>Year 3, Semester 2</b>			
ITB340	Project#	12	
ITB341	Information Management 3 (Strategy & Planning)#	12	3
MAB172	Quantitative Methods 1B#	12	3
	Minor unit	12	3
Part-Time Course Structure		Credit Points	Contact Hrs/Wk
<b>Year 3, Semester 1</b>			
ITB321	Systems Analysis	12	3
ITB322	Information Resources	12	3
<b>Year 3, Semester 2</b>			
SSB937	Applied Cognitive Psychology#	12	3
	Minor Unit	12	3
<b>Year 4, Semester 1</b>			
ITB220	Database Design	12	3
ITB320	Laboratory 3 (Database Applications)	12	3
<b>Year 4, Semester 2</b>			
ITB323	Laboratory 4 (Information Support Methods)	12	3
ITB520	Data Communications	12	3

**Year 5, Semester 1**

ITB331	Information Management 2 (Analysis & Use)	12	3
	Minor Unit	12	3

**Year 5, Semester 2**

MAB172	Quantitative Methods 1B#	12	3
	Minor Unit	12	3

**Year 6, Semester 1**

ITB330	Information Issues & Values	12	3
	Minor Unit	12	3

**Year 6, Semester 2**

ITB340	Project#	12	
ITB341	Information Management 3 (Strategy & Planning)#	12	3

# Denotes extended major units. These units can be replaced with another set of minors or these units and the minor units can be replaced with a secondary major.

**PRE-HONOURS EXTENDED INFORMATION MANAGEMENT MAJOR**

A pre-honours extended major will be available for selected students in the second semester of their second year of study. This extended major will prepare students for Honours and higher-level studies; it comprises the following units:

ITB350	Project H	12	
ITB351	Information Management 3H (Strategy & Planning)	12	3
ITB352	Laboratory 4H (Information Support Method & Evaluation)	12	3
MAB272	Research Methods	12	3

**INFORMATION SYSTEMS PRIMARY MAJOR**

**Coordinator:** Associate Professor Alan Underwood

**Full-Time Course Structure**

**Credit  
Points**

**Contact  
Hrs/Wk**

**Year 2, Semester 1**

ITB220	Database Design	12	3
ITB221	Laboratory 3 (Commercial Programming)	12	3
ITB222	Systems Analysis & Design 1	12	3
ITB520	Data Communications	12	3

**Year 2, Semester 2**

ITB223	Laboratory 4 (4GL Programming)	12	3
ITB224	Systems Analysis & Design 2	12	3
	Elective Unit#	12	3
	Minor unit	12	3

**Year 3, Semester 1**

ITB230	Project OR	12	
ITB231	Applications Development	12	3
ITB232	Database Management	12	3
	Minor Unit	12	3
	Elective Unit#	12	3

**Year 3, Semester 2**

ITB240	Project#	12	
ITB241	Information Systems Management#	12	3
	Minor Unit	12	3
	Minor Unit	12	3

## Part-Time Course Structure

### Year 3, Semester 1

ITB222	Systems Analysis & Design 1	12	3
ITB520	Data Communications	12	3

### Year 3, Semester 2

ITB220	Database Design	12	3
ITB221	Laboratory 3 (Commercial Programming)	12	3

### Year 4, Semester 1

ITB224	Systems Analysis & Design 2	12	3
	Elective Unit#	12	3

### Year 4, Semester 2

ITB223	Laboratory 4 (4GL Programming)	12	3
	Minor Unit	12	3

### Year 5, Semester 1

ITB230	Project	12	
	OR		
ITB231	Applications Development	12	3
	Minor Unit	12	3

### Year 5, Semester 2

ITB232	Database Management	12	3
	Minor Unit	12	3

### Year 6, Semester 1

ITB240	Project#	12	
	Elective Unit#	12	3

### Year 6, Semester 2

ITB241	Information Systems Management#	12	3
	Minor Unit	12	3

# Denotes extended major units. These units can be replaced with another set of minors or these units and the minor units can be replaced with a secondary major.

### PRE-HONOURS EXTENDED INFORMATION SYSTEMS MAJOR

A pre-honours extended major will be available for selected students in the second semester of their second year of study, in place of the extended major. This extended major will prepare students for Honours and higher-level studies; it comprises the following units:

ITB240	Project	12	
ITB241	Information Systems Management	12	3
ITB246	Unix and C	12	3
MAB272	Research Methods	12	3

### Elective Units

The extended major is made up of two core units, ITB241 Information Systems Management and ITB240 Project, and two elective units chosen from the list below. The offering of any elective units in any semester depends on sufficient minimum enrolments in the unit and the availability of staff.

### FIRST SEMESTER ELECTIVE UNITS

ITB231	Applications Development	12	3
ITB243	Knowledge-Based Systems	12	3
ITB244	Special Topic	12	3
ITB247	Project*	12	



## SECOND SEMESTER ELECTIVE UNITS

ITB242	Decision Support Systems	12	3
ITB245	Special Topic	12	3
ITB246	Unix and C	12	3
ITB248	Project*	24	
ITB523	Data Security	12	3
MAB172	Quantitative Methods 1B	12	3

\* A 24 credit point project may be undertaken across two semesters (ITB247 Project) or in one semester (ITB248 Project), subject to approval from the course coordinator. This Project, ITB247 or ITB248, replaces the core Project ITB240 in the extended major and one elective unit.

## EXAMPLES OF MINORS

### COMPUTING SCIENCE MINOR

(for Information Management major)

BSB102	Management & Organisation	12	3
ITB421	Data Structures & Algorithms	12	3
ITB422	Laboratory 3 (ADTs in Unix environment)	12	3
	Elective Unit (from Computing Science)	12	3

### COMPUTING SCIENCE MINOR

(for Information Systems major)

ITB421	Data Structures & Algorithms	12	3
ITB431	Programming Language Paradigms	12	3
	Elective Units [minimum of 24 credit points] (from Computing Science)		

### NETWORK MANAGEMENT MINOR

ITB521	Computer Networks 1	12	3
ITB524	Corporate Communications Network Planning & Management	12	3
ITB526	Data Communications Systems & Architectures	12	3
	Elective Unit		

### INFORMATION MANAGEMENT MINOR

(for non-Information Management majors)

BSB102	Management & Organisation	12	3
ITB331	Information Management 2 (Analysis & Use)	12	3
ITB341	Information Management 3 (Strategy & Planning)	12	3
SSB937	Applied Cognitive Psychology	12	3

### INFORMATION SYSTEMS MINOR

(for Computing Science major)

ITB220	Database Design	12	3
ITB222	Systems Analysis & Design 1	12	3
ITB241	Information Systems Management	12	3
	Elective Unit (from Information Systems)	12	3

### INFORMATION SYSTEMS MINOR

(for Information Management major)

BSB102	Management & Organisation	12	3
ITB242	Decision Support Systems	12	3
	Elective Unit (from Information Systems)	12	3
	Elective Unit (from Information Systems)	12	3

### ECONOMICS MINOR

BSB102	Management & Organisation	12	3
EPB124	Government	12	3
EPB140	Macroeconomics	12	3
	OR		
EPB150	Microeconomics	12	3
	Business Elective Unit		

<b>INFORMATION SERVICES MINOR</b>			
ITP311	Collection Building & Acquisitions	12	3
ITP315	Library Programs Management	12	3
ITP316	Field experience	4	
	Elective Unit	12	
	Elective Unit (from Library & Information Studies)	8	
<b>PRODUCTION MINOR</b>			
BSB102	Management & Organisation	12	3
COB134	Speech Communication: Theory & Practice	12	3
	OR		
COB138	Written Communication: Theory & Practice	12	3
MJB118	Fundamentals of Photography	12	3
	OR		
MJB126	Video Production	12	3
	Business Elective Unit	12	
<b>MANAGEMENT MINOR</b>			
BSB102	Management & Organisation	12	3
HRB131	Personnel Management & Industrial Relations	12	3
MKB140	Marketing	12	3
	Business Elective Unit	12	

## ■ 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

Continuing students in IT32 will be transferred into the Bachelor of Information Technology (IT20). To complete the equivalent of the first full-time year, students on normal progression will follow the course program given below.

<b>Part-Time Course Structure Continuing Students Only</b>		<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
<b>Year 2, Semester 1</b>			
COB160	Professional Communication	12	3
ITB412	Technology of Information Systems	12	3
<b>Year 2, Semester 2</b>			
ITB102	Laboratory 2 (Computer Applications)	12	3
ITB411	Software Development 2	12	3

## ■ 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 Continuing Students Only		Credit Points	Contact Hrs/Wk
<b>Year 3, Semester 1</b>			
ITB424	Software Engineering	12	3
ITB430	Concurrent Systems	12	3
Elective Units [minimum of 24 credit points]			
<b>Year 3, Semester 2</b>			
ITB446	Project*	12	
ITB450	Advanced Computer Architecture	12	3
Elective Units [minimum of 24 credit points]			
Part-Time Course Structure Continuing Students Only		Credit Points	Contact Hrs/Wk
<b>Year 4, Semester 1</b>			
ITB422	Laboratory 3 (ADTS in a Unix environment)	12	3
ITB440	Languages & Language Processing	12	3
<b>Year 4, Semester 2</b>			
ITB423	Laboratory 4 (Software Development)	12	3
ITB431	Programming Language Paradigms	12	3
<b>Year 5, Semester 1</b>			
ITB424	Software Engineering	12	3
	Elective Unit	12	3
<b>Year 5, Semester 2</b>			
ITB430	Concurrent Systems	12	3
	Elective Unit	12	3
<b>Year 6, Semester 1</b>			
ITB450	Advanced Computer Architecture	12	3
	Elective Unit	12	3
<b>Year 6, Semester 2</b>			
ITB446	Project*	12	
	Elective Unit	12	3

### Elective Units

The offering of elective units in any semester depends on sufficient minimum enrolment in the unit and the availability of staff. The choice of all elective units is subject to approval by the relevant Head of School. A minimum of 48 credit points of elective units

must be chosen from the list below or from other offerings subject to approval by the course coordinator.

#### FIRST SEMESTER ELECTIVE UNITS

CSB350	Miscellaneous Studies	3	1
CSB360	Miscellaneous Studies	6	2
CSB370	Miscellaneous Studies	9	3
ITB441	Graphics	12	3
ITB442	Artificial Intelligence	12	3
ITB443	Systems Programming	12	3
ITB444	Special Studies 1	12	3
ITB447	Project	12	
ITB448	Object-Oriented Programming	12	3
ITB451	Project*	24	

#### SECOND SEMESTER ELECTIVE UNITS

CSB350	Miscellaneous Studies	3	1
CSB360	Miscellaneous Studies	6	2
CSB370	Miscellaneous Studies	9	3
ITB443	Systems Programming	12	3
ITB445	Special Studies 2	12	3
ITB449	Expert Systems	12	3
ITB451	Project*	24	
ITB453	Project*	24	
ITB523	Data Security	12	3

\*A 24 credit point project may be undertaken across two semesters (ITB451 Project) or in one semester (ITB453 Project), subject to approval from the course coordinator. This Project, ITB451 or ITB453, replaces the core Project ITB446 and one elective unit.

## ■ Bachelor of Applied Science (Computing) (IS28)

**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 Hamish Bentley

#### Professional Recognition

This course is accredited by the Australian Computer Society.

Full-Time Course Structure (For Continuing Students only)		Credit Points	Contact Hrs/Wk
<b>Year 1, Semester 1</b>			
ITB101	Laboratory 1 (Computing Environment)	12	3
ITB210	Formal Representation	12	3
ITB410	Software Development 1	12	3
ITB520	Data Communications	12	3
<b>Year 1, Semester 2</b>			
BSB103	Business Communications & Applications	12	3
ITB102	Laboratory 2 (Computer Applications)	12	3
ITB411	Software Development 2	12	3
ITB412	Technology of Information Systems	12	3

**Year 2, Semester 1**

ITB220	Database Design	12	3
ITB221	Laboratory 3 (Commercial Programming)	12	3
ITB222	Systems Analysis & Design 1	12	3
ITB421	Data Structures & Algorithms	12	3

**Year 2, Semester 2**

ITB223	Laboratory 4 (4GL Programming)	12	3
ITB424	Software Engineering	12	3
	Elective Unit	12	3
	Elective Unit	12	3

**Year 3, Semester 1**

ITB230	Project	12	
ITB231	Applications Development	12	3
ITB232	Database Management	12	3
	Elective Unit	12	3

**Year 3, Semester 2**

ITB240	Project	12	
	OR		
	Elective Unit	12	3
ITB241	Information Systems Management	12	3
	Elective Unit	12	3
	Elective Unit	12	3

**Part-Time Course Structure****Year 1, Semester 1**

ITB101	Laboratory 1 (Computing Environment)	12	3
ITB210	Formal Representation	12	3

**Year 1, Semester 2**

BSB103	Business Communications & Applications	12	3
ITB102	Laboratory 2 (Computer Applications)	12	3

**Year 2, Semester 1**

ITB412	Technology of Information Systems	12	3
ITB520	Data Communications	12	3

**Year 2, Semester 2**

ITB410	Software Development 1	12	3
ITB411	Software Development 2	12	3

**Year 3, Semester 1**

ITB222	Systems Analysis & Design 1	12	3
	Elective Unit	12	3

**Year 3, Semester 2**

ITB220	Database Design	12	3
ITB221	Laboratory 3 (Commercial Programming)	12	3

**Year 4, Semester 1**

ITB424	Software Engineering	12	3
	Elective Unit	12	3

**Year 4, Semester 2**

ITB223	Laboratory 4 (4GL Programming)	12	3
ITB421	Data Structures & Algorithms	12	3

**Year 5, Semester 1**

ITB230	Project	12	
ITB241	Information Systems Management	12	3

**Year 5, Semester 2**

ITB232	Database Management	12	3
	Elective Unit	12	3

**Year 6, Semester 1**

ITB231	Applications Development	12	3
ITB240	Project	12	
	OR		
	Elective Unit	12	3

**Year 6, Semester 2**

	Elective Unit	12	3
	Elective Unit	12	3

**Elective Units**

The offering of elective units in any semester depends on sufficient minimum enrolments in the unit and the availability of staff. The choice of all elective units is subject to the approval of the relevant Head of School. Recommended elective units from the Bachelor of Information Technology (IT20) are:

**FIRST SEMESTER ELECTIVE UNITS**

ITB243	Knowledge-Based Systems	12	3
ITB244	Special Topic 1	12	3
ITB441	Graphics	12	3
ITB442	Artificial Intelligence	12	3
ITB443	Systems Programming	12	3
ITB444	Special Studies 1	12	3
ITB445	Special Studies 2	12	3

**SECOND SEMESTER ELECTIVE UNITS**

ITB242	Decision Support Systems	12	3
ITB245	Special Topic 2	12	3
ITB246	Unix & C	12	3
ITB443	Systems Programming	12	3
ITB445	Special Studies 2	12	3
ITB449	Expert Systems	12	3

**■ 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:** Associate Professor Alan Underwood

**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 Continuing Students Only

**Credit  
Points**

**Contact  
Hrs/Wk**

#### Year 3, Semester 1

ISP383	Office Information Systems	12	3
ITB220	Database Design	12	3
ITB234	Project*	24	
ITB241	Information Systems Management	12	3

#### Year 3, Semester 2

ITB242	Decision Support Systems	12	3
ITB243	Knowledge-Based Systems	12	3
	Elective Unit	12	3

### Part-Time Course Structure Continuing Students Only

**Credit  
Points**

**Contact  
Hrs/Wk**

#### Year 4, Semester 1

HRB404	Principles of Management	12	3
	Elective Unit	12	3

#### Year 4, Semester 2

ITB224	Systems Analysis & Design 2	12	3
	Elective Unit	12	3

#### Year 5, Semester 1

ISP383	Office Information Systems	12	3
ITB242	Decision Support Systems	12	3

#### Year 5, Semester 2

ITB232	Database Management	12	3
ITB243	Knowledge-Based Systems	12	3

#### Year 6, Semester 1

ITB234	Project*	24	
ITB241	Information Systems Management	12	3

#### Year 6, Semester 2

	Elective Unit	12	3
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### Elective Units

The offering of elective units in any semester depends on sufficient minimum enrolments in the unit and the availability of staff. The choice of all elective units is subject to the approval of the relevant Head of School.

#### FIRST SEMESTER ELECTIVE UNITS

ISB350	Minor Studies	3	1
ISB360	Minor Studies	6	2
ISB370	Minor Studies	9	3
ITB231	Applications Development	12	3
ITB244	Special Topic 1	12	3

or business elective units which may be chosen from degree courses offered by the Faculty of Business.

#### SECOND SEMESTER ELECTIVE UNITS

ISB350	Minor Studies	3	1
ISB360	Minor Studies	6	2
ISB370	Minor Studies	9	3

\* Unit extends over two semesters.

ITB245	Special Topic 2	12	3
ITB246	Unix & C	12	3

or business elective units which may be chosen from degree courses offered by the Faculty of Business.

## ■ 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.

### Full-Time Course Structure Continuing Students Only

#### Year 2, Semester 1

ITB220	Database Design	12	3
ITB320	Laboratory 3 (Database Applications)	12	3
ITB321	Systems Analysis	12	3
ITB322	Information Resources	12	3

#### Year 2, Semester 2

BSB102	Management & Organisation	12	3
ITB323	Laboratory 4 (Information Support Methods)	12	3
ITB520	Data Communications	12	3
SSB937	Applied Cognitive Psychology	12	3

#### Year 3, Semester 1

ITB242	Decision Support Systems	12	3
ITB330	Information Issues & Values	12	3
ITB331	Information Management 2 (Analysis & Use)	12	3
	Elective Unit	12	3

#### Year 3, Semester 2

ITB340	Project	12	
ITB341	Information Management 3 (Strategy & Planning)	12	3
	Information Systems Elective Unit	12	3
	Elective Unit	12	3

### Part-Time Course Structure Continuing Students only

#### Year 2, Semester 1

ITB310	Information Management	12	3
ITB412	Technology of Information Systems	12	3

#### Year 2, Semester 2

BSB103	Business Communications & Applications	12	3
ITB102	Laboratory 2 (Computer Applications)	12	3



### Year 3, Semester 1

ITB321	Systems Analysis	12	3
ITB322	Information Resources	12	3

### Year 3, Semester 2

BSB102	Management & Organisation	12	3
SSB937	Applied Cognitive Psychology	12	3

### Year 4, Semester 1

ITB220	Database Design	12	3
ITB320	Laboratory 3 (Database Applications)	12	3

### Year 4, Semester 2

ITB323	Laboratory 4 (Information Support Methods)	12	3
ITB520	Data Communications	12	3

### Year 5, Semester 1

ITB242	Decision Support Systems	12	3
ITB331	Information Management 2 (Analysis & Use)	12	3
	OR		
	Information Systems Elective Unit if ISB214 already completed	12	3

### Year 5, Semester 2

MAB172	Statistical Methods	12	3
	OR		
	Information Systems Elective Unit if MAB172 already completed	12	3
	Elective Unit	12	

### Year 6, Semester 1

ITB330	Information Issues & Values	12	3
	Elective Unit	12	3

### Year 6, Semester 2

ITB340	Project	12	
ITB341	Information Management 3 (Strategy & Planning)	12	3

### Elective Units

Information Systems elective units may be chosen from any undergraduate units offered in School of Information Systems courses, subject to prerequisites and approval.

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

#### FIRST SEMESTER ELECTIVE UNITS

AYB100	Accounting for Managers	12	3
COB144	Literature and Communication	12	3
EPB150	Microeconomics	12	3
HRB126	Management Processes	12	3
ISB350	Minor Studies	3	1
ISB360	Minor Studies	6	2
ISB370	Minor Studies	9	3
MJB118	Fundamentals of Photography	12	3
MJB126	Video Production	12	3
MKB140	Principles of Marketing	12	3

#### SECOND SEMESTER ELECTIVE UNITS

COB134	Speech Communication: Theory & Practice	12	3
EPB124	Government	12	3

EPB140	Macroeconomics	12	3
HRB126	Management Processes	12	3
HRB131	Personnel Management and Industrial Relations	12	3
ISB350	Minor Studies	3	1
ISB360	Minor Studies	6	2
ISB370	Minor Studies	9	3
MJB117	Introduction to Audiovisual Communication	12	3
MKB124	Public Relations Principles	12	3
MKB140	Principles of Marketing	12	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 Hamish Bentley

### Professional Recognition

This course is accredited by the Australian Computer Society.

Full-Time Course Structure Continuing Students Only		Credit Points	Contact Hrs/Wk
<b>Year 2, Semester 1</b>			
ISX029	Microcomputers: Hardware & Applications	12	3
ISX031	Software Development	12	3
ISX032	Database Systems 1	12	3
ISX036	Systems Design	12	3
<b>Year 2, Semester 2</b>			
CSX028	Computer Languages	12	3
CSX030	Computer Networks	12	3
ISX033	Database Systems 2	12	3
ISX034	Project	12	
	OR		
	Elective Unit	12	
Part-Time Course Structure Continuing Students Only		Credit Points	Contact Hrs/Wk
<b>Year 3, Semester 1</b>			
ISX029	Microcomputers: Hardware & Applications	12	3
ISX032	Database Systems 1	12	3
<b>Year 3, Semester 2</b>			
CSX028	Computer Languages	12	3
ISX033	Database Systems 2	12	3
<b>Year 4, Semester 1</b>			
ISX031	Software Development	12	3
ISX036	Systems Design	12	3
<b>Year 4, Semester 2</b>			
CSX030	Computer Networks	12	3

ISX034	Project	12	
	OR		
	Elective Unit	12	3

### Elective Units

The offering of elective units in any semester depends on sufficient minimum enrolments in the unit and the availability of staff. The choice of all elective units is subject to the approval of the relevant Head of School. Recommended elective units will be advised by the course coordinator.

#### FIRST SEMESTER ELECTIVE UNITS

ITB441	Graphics	12	3
ITB442	Artificial Intelligence	12	3
ITB443	Systems Programming	12	3
ITB444	Special Studies 1	12	3
ITB447	Project	12	
ITB448	Object-Oriented Programming	12	3
ITB451	Project*	24	

#### SECOND SEMESTER ELECTIVE UNITS

ITB443	Systems Programming	12	3
ITB445	Special Studies 2	12	3
ITB449	Expert Systems	12	3
ITB453	Project*	24	
ITB523	Data Security	12	3
MAB172	Quantitative Methods 1B	12	3

\* A 24 credit point project may be undertaken across two semesters (ITB247 Project) or in one semester (ITB248 Project), subject to approval from the course coordinator. This Project, ITB247 or ITB248, replaces the core Project ITB240 in the extended major and one elective unit.



# FACULTY OF LAW

# Courses

■ Doctor of Juridical Science (LW50) .....	535
■ Master of Laws by Coursework (LW51) .....	536
■ Master of Laws by Research (LW52).....	538
■ Master of Legal Practice (LP51) .....	541
■ Graduate Diploma in Legal Practice (LP41).....	543
■ Bar Practice Course .....	545
■ Bachelor of Arts (GU)/Bachelor of Laws (LX32) .....	545
■ Bachelor of Business – Accounting (USQ)/Bachelor of Laws (LX31).....	548
■ Bachelor of Laws (LW31) .....	549
■ Bachelor of Arts (Justice Studies) (JS31) .....	556
■ Associate Diploma in Business (Court and Parliamentary Reporting) (JS21) .....	557
■ Advanced Certificate in Policing (JS11) .....	558

# FACULTY OF LAW

## Course Structures

### ■ Doctor of Juridical Science (LW50)

**Location:** Gardens Point campus

**Course Duration:** Minimum of 3 years full-time, 4½ years part-time

**Total Credit Points:** 288

**Standard Credit Points/Full-Time Semester:** 48 (Average)

**Course Coordinator:** To be advised.

#### Course Structure

Students undertake 108 credit points of coursework units taken from Schedule 1 and complete a dissertation component.

#### Stage 1

108 credit points of coursework units taken from Schedule 2. (Refer to entry for LW51.)  
Schedule 1 lists units available in 1993.

#### Stage 2

Dissertation component (approximately 70,000 words).

#### Schedule 1 – Units available in 1993

	Credit Points
LWN008 Commercial Leases	24
LWN014 The Practice of Natural Resources Law	12
LWN017 Restitution	12
LWN018 Select Problems of Trusts	12
LWN021 Banking and Finance Law 1	12
LWN023 International Trade Law	24
LWN024 Select Problems of Tribunals & Enquiries	12
LWN025 Research Project 1	12
LWN026 Research Project 2	24
LWN027 The Principles of Natural Resources Law	12
LWN029 Theoretical Criminology	12
LWN030 Dispute Resolution/Mediation	12
LWN035 Medico Legal Issues	12
LWN037 Stamp Duty & Commercial Transactions	12
LWN038 Capital Gains Tax & Commercial Transactions	12
LWN039 Applied Criminology	12
LWN040 Theories of Justice 1	12
LWN042 Theories of Justice 2	12
LWN043 Law of Company Takeovers	12
LWN044 Institutional Investors	12
LWN045 The Law of Procedure Relating to Public & Official Corruption	12
LWN046 Advanced Planning	12
LWN047 Legal Education	12
LWN048 Advanced Legal Research	12
LWN049 International Environmental Law	12
LWN050 Restrictive Trade Practices Law	12
LWN051 Consumer Protection & Product Liability	12
LWN052 Litigation	12

## ■ 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 units for a Pass degree together with a dissertation for an Honours degree.

The units from which 96 credit points shall be chosen are, subject to availability:

### Full-Time Course Structure

#### Year 1, Semesters 1 and 2

Units taken from Schedule 2 for any given year equal to 48 credit points per semester. (Whole year subjects are counted as 12 credit points per semester).

### Part-Time Course Structure

#### Year 1, Semesters 1 and 2

Units taken from Schedule 2 for any given year equal to 24 credit points per semester. (Whole year units are counted as 12 credit points per semester).

#### Year 2, Semesters 1 and 2

Units taken from Schedule 2 for any given year equal to 24 credit points per semester. (Whole year units are counted as 12 credit points per semester).

The code number of the Honours Dissertation is LWN100.

It is intended that the following units marked with a '+' will be offered in 1993.

### Schedule 2 – Accredited Coursework Units

	<b>Credit Points</b>
LWN001    Advanced Company Law*	24
LWN003    Advanced Family Law*	24
LWN004    Advanced Law of Trusts*	24
LWN005    Trade Practices and Consumer Protection*	24

\* Unit extends over two semesters.



LWN007	Commercial Arbitration*	24
LWN008	Commercial Leases*+	24
LWN011	Litigation*	24
LWN012	Pacific Legal Studies	12
LWN013	Commercial Remedies	24
LWN014	The Practice of Natural Resources Law (First Semester)+	12
LWN017	Restitution (First Semester)+	12
LWN018	Select Problems of Trusts (First Semester and/or Second Semester)+	12
LWN019	Taxation of Business Entities	12
LWN020	Non-Resident & Foreign Source Taxation	12
LWN021	Banking and Finance Law 1 (First Semester)+	12
LWN022	Banking and Finance Law 2 (Second Semester)+	12
LWN023	International Trade Law*+	24
LWN024	Select Problems of Tribunals and Enquiries (First Semester)+	12
LWN025	Research Project 1+	12
LWN026	Research Project 2*+	24
LWN027	The Principles of Natural Resources Law (Second Semester)+	12
LWN028	Advanced Securities (Second Semester)	12
LWN029	Theoretical Criminology (First Semester)+	12
LWN030	Dispute Resolution/Mediation (Second Semester)+	12
LWN031	Foreign Investment and Property Development Law in Australia (Second Semester)	12
LWN035	Medico-Legal Issues (Second Semester)+	12
LWN037	Stamp Duty and Commercial Transactions (Second Semester)+	12
LWN038	Capital Gains Tax and Commercial Transactions (First Semester)+	12
LWN039	Applied Criminology (Second Semester)+	12
LWN040	Theories of Justice 1 (First Semester)+	12
LWN041	Economic Analysis of the Law	12
LWN042	Theories of Justice 2+	12
LWN043	Law of Company Takeovers+	12
LWN044	Institutional Investors+	12
LWN045	The Law & Procedure Relating to Public & Official Corruption+	12
LWN046	Advanced Planning+	12
LWN047	Legal Education+	12
LWN048	Advanced Legal Research+	12
LWN049	International Environmental Law+	12
LWN050	Restrictive Trade Practices Law+	12
LWN051	Consumer Protection & Product Liability+	12
LWN052	Litigation+	12

### LWN100 Honours Dissertation

A coursework student who has obtained 96 credit points and who has a grade point average of 5 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

\* Unit extends over two semesters.

+ Offered in 1993 subject to availability of staff and demand.

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 their research for the dissertation under the direction of the supervisor.

The student shall submit four clear typed copies of their 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 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 dissertation shall be referred to two examiners. Each examiner shall report as to whether, in 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 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 (LW52)

**Location:** Gardens Point campus

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

**Total Credit Points:** 96

**Course Coordinator:** To be advised.

### 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

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

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

**Course Coordinator:** Associate Professor J. de Groot

### **Course Structure**

Students must complete a Research Dissertation in a minimum of one semester. Refer to information given under the heading Research Dissertation which follows.

It is expected that the Research Dissertation will relate to one of the core unit 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.

### **Full-Time Course Structure**

Students undertaking the Master of Legal Practice in the full-time mode enrol in LPN301.

### **Part-Time Course Structure**

Students undertaking the Master of Legal Practice in the part-time mode over two semesters enrol in LPN300.

Students undertaking the Master of Legal Practice in the part-time mode over three semesters enrol in LPN302 (equivalent to a 24 credit point semester unit) for one semester and enrol in LPN303 (12 credit point unit) and LPN304 (12 credit point unit) in the two subsequent semesters.

Students are advised to contact the course coordinator prior to final enrolment to ensure that they undertake the course in the manner most beneficial to successful study.

### **Research Dissertation (LPN300, LPN301, LPN302, LPN303 or LPN304)**

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 their research for the dissertation under the direction of the supervisor.

The student shall submit four clear typed copies of their 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 them 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 in 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:** This 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 semesters.

**Total Credit Points:** 96

**Standard Credit Points/Full-Time Semester:** 48

**Course Coordinator:** Mr A. Chay

### Entry Requirements

- (i) Eligibility for normal entry
  - (a) To be eligible for a place in the Graduate Diploma in Legal Practice you must hold, or be entitled to, an approved degree in law by the date the course commences.
- (ii) Approved degree in law
  - (a) An approved degree in law is a degree in which you passed as part of the degree, or through additional study, all the subjects required for admission as a solicitor of the Supreme Court of Queensland (Legal Ethics and Bookkeeping and Trust Accounts excepted).
  - (b) If your degree in law is not from a university in Queensland then your application will not be considered until you submit a letter from the Secretary of the Queensland Solicitors' Board stating that you have passed as part of your degree, or through additional study, all the subjects required for admission as a solicitor (Legal Ethics and Bookkeeping and Trust Accounts excepted).
- (iii) Special entry where you will not hold an approved degree
  - (a) If you are not eligible for normal entry you may apply for special entry. Your application for special entry must be accompanied by a written statement by you setting out why you are applying for special entry.
  - (b) Your application for special entry will not be considered unless there are places available after places have been allocated to applicants who are eligible for normal entry.

### Content

Eight core subject areas are addressed and within these core units 24 topic areas are covered. The core units and topic areas and the approximate number of hours devoted to them are:

PROPERTY  
Conveyancing Practice  
Lease Practice

(153.00)  
(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)
<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 they show 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 their 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 they are 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 units 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:** Professor Malcolm Cope

\* For the information of continuing students only. There will be no commencing students enrolled in this course after 1991.

**Full-Time Course Structure  
for Students with No Prior  
Knowledge of Japanese Language**

**Credit  
Points**      **Contact  
Hrs/Wk**

**Year 3, Semester 1**

LWB201	Land Law*	12	3
LWB203	Constitutional Law*	12	3
LWB301	Equity*	12	3

**Year 3, Semester 2**

LWB201	Land Law*	12	3
LWB203	Constitutional Law*	12	3
LWB301	Equity*	12	3

**Year 4, Semester 1**

LWB303	Commercial Law*	12	3
LWB311	Administrative Law*	12	3
	One Law Elective Unit	8-12	2-3
LWB401	Company Law & Partnership*	12	3

**Year 4, Semester 2**

LWB303	Commercial Law*	12	3
LWB311	Administrative Law*	12	3
	One Law Elective Unit	8-12	2-3
LWB401	Company Law & Partnership*	12	3

**Year 5, Semester 1**

LWB309	Succession	8	2
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**

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 Unit	8-12	2-3

**Full-Time Course Structure  
for Students with Prior  
Knowledge of Japanese Language**

**Credit  
Points**      **Contact  
Hrs/Wk**

**Year 3, Semester 1**

LWB201	Land Law*	12	3
LWB203	Constitutional Law*	12	3
LWB301	Equity*	12	3

**Year 3, Semester 2**

LWB201	Land Law*	12	3
LWB203	Constitutional Law*	12	3
LWB301	Equity*	12	3

\* Unit extends over two semesters.

**Year 4, Semester 1**

LWB303	Commercial Law*	12	3
LWB311	Administrative Law*	12	3
	One Law Elective Unit	8-12	2-3
LWB401	Company Law & Partnership	12	3

**Year 4, Semester 2**

LWB303	Commercial Law*	12	3
LWB311	Administrative Law*	12	3
	One Law Elective Unit	8-12	2-3
LWB401	Company Law & Partnership	12	3

**Year 5, Semester 1**

LWB309	Succession	8	2
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**

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 Unit	8-12	2-3

**Law Elective Units:** 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+**

AAI2071	The Japanese Economic System	3
AAI2074	Problems in Modern Japanese History	3
AAI2075	Politics & Foreign Policy in Contemporary Japan	3
AAI2077	Japanese Society & Culture	3
AAI3076	Industrial Relations in Japan	3

**Social Sciences+**

AAI240	Anthropology	3
AAI244	Historiography	3
AAI246	Political Science	3
AAI247	Sociology	3
ABI201	The Microeconomy & Economic Policy	3

**Thematic Courses+**

AAI331	Australia & Asia	3
AAI339	International Relations in Asia	3
AAI341	Guided Studies Semester 1	3
AAI342	Guided Studies Semester 2	3

\* Unit extends over two semesters.

+ Consult the 1993 Griffith University Handbook for details.

## ■ 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>			
LWB101	Introduction to Law*	12	3
LWB104	Legal Research & Writing 1*	4	1
<b>Year 1, Semester 2</b>			
LWB101	Introduction to Law*	12	3
LWB104	Legal Research & Writing 1*	4	1
<b>Year 2, Semester 1</b>			
LWB102	Law of Contract*	12	3
LWB103	Torts*	12	3
<b>Year 2, Semester 2</b>			
LWB102	Law of Contract*	12	3
LWB103	Torts*	12	3
<b>Year 3, Semester 1</b>			
LWB202	Criminal Law & Procedure*	12	3
LWB203	Constitutional Law*	12	3
<b>Year 3, Semester 2</b>			
LWB202	Criminal Law & Procedure*	12	3
LWB203	Constitutional Law*	12	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 Unit	8-12	2-3
<b>Year 4, Semester 2</b>			
LWB201	Land Law*	12	3
LWB301	Equity*	12	3
LWB303	Commercial Law*	12	3
LWB311	Administrative Law*	12	3
	One Law Elective Unit	8-12	2-3
<b>Year 5, Semester 1</b>			
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

\* Unit extends over two semesters.

## 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
	One Law Elective Unit	8-12	2-3

## Law Elective Units

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 Unit	12	3

## ■ Bachelor of Laws (LW31)

**Location:** Gardens Point campus

**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**

#### Year 1, Semester 1

LWB101	Introduction to Law+	12	3
LWB102	Law of Contract+	12	3
LWB103	Torts+	12	3
LWB104	Legal Research & Writing 1+	4	1

#### Year 1, Semester 2

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

#### Year 2, Semester 1

LWB201	Land Law+	12	3
LWB202	Criminal Law & Procedure+	12	3
LWB203	Constitutional Law+	12	3
LWB301	Equity+	12	3

\* LWB312 Land Contracts shall not be studied before LWB201 Land Law.

+ Unit extends over two semesters.

**Year 2, Semester 2**

LWB201	Land Law+	12	3
LWB202	Criminal Law & Procedure+	12	3
LWB203	Constitutional Law+	12	3
LWB301	Equity+	12	3

**Year 3, Semester 1**

LWB303	Commercial Law+	12	3
LWB309	Succession	8	2
LWB311	Administrative Law+	12	3
	Two Law Elective Units	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 Units	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 Unit	8-12	2-3

**Law Elective Units**

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
LWB485	Environmental Law	12	3
LWB486	Intellectual Property Law	12	3
LWB487	Maritime Law	8	2
	Special Law Elective Unit***	12	3

**\*\* RESEARCH AND WRITING PROJECT**

The Research and Writing Project is a one-semester unit 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

\* Unit extends over two semesters.

+ LWB312 Land Contracts shall not be studied before LWB201 Land Law.

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 units in which they have passed, an average mark equal to or greater than that required for the award of the LLB with Honours.

The Project is a paper, normally of 10,000-15,000 words. The paper must be submitted for examination not later than the last day of the teaching semester in which the Project is undertaken.

The Project is deemed to be a one-semester unit with three hours of formal classes a week.

### \*\*\* SPECIAL LAW ELECTIVE UNIT

This one-semester Law unit is offered internally whenever, in the opinion of the Dean of the Faculty, sufficient academic staff with the requisite expertise in an appropriate unit other than one of those specified above are available in the Faculty, and a sufficient number of students is enrolled in the unit.

The Special Law Elective Units offered so far are:

		<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
LWB315	Jessup International Law Moot	8	2
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 Units will be offered to internal students as follows:

### First Semester

#### DAY CLASSES

Solicitors' Trust Accounts  
Insolvency Law  
Industrial Law  
Jurisprudence  
Research & Writing Project  
Intellectual Property Law

#### EVENING CLASSES

Family Law  
Land Contracts  
Public International Law  
Trade Practices Law  
Conflict of Laws  
Special Law Elective Unit  
Research & Writing Project  
Local Government Law  
Environmental Law

### Second Semester

#### DAY CLASSES

Family Law  
Land Contracts  
Trade Practices Law  
Conflict of Laws  
Special Law Elective Unit  
Research & Writing Project  
Environmental Law  
Maritime Law

#### EVENING CLASSES

Solicitors' Trust Accounts  
Local Government Law  
Insolvency Law  
Industrial Law  
Jurisprudence  
Research & Writing Project

The Law Elective Units will be offered to external students as follows:

### First Semester

Family Law  
Land Contracts  
Public International Law  
Trade Practices Law  
Conflicts of Laws

### Second Semester

Solicitors' Trust Accounts  
Local Government Law  
Insolvency Law  
Industrial Law  
Jurisprudence

### Solicitors' Board Requirements

Students who wish to satisfy the academic requirements of the Solicitors' Board must include the following units 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 units 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 Units which are acceptable. Local Government Law is not an acceptable unit under Rule 16.

### Part-Time Internal and External Course Structure

#### NOTE FOR EXTERNAL LLB COURSE

The non-Law units Introductory Accounting and Government may be taken by enrolling in equivalent units at a tertiary institution other than QUT. Equivalents of certain Law units 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*	12	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 Unit	8-12	2-3
<b>Year 3, Semester 2</b>			
LWB201	Land Law*	12	3
LWB301	Equity*	12	3
	One Law Elective Unit	8-12	2-3

\* Unit extends over two semesters.



**Year 4, Semester 1**

LWB303	Commercial Law*	12	3
LWB311	Administrative Law*	12	3
	One Law Elective Unit*	8-12	2-3

**Year 4, Semester 2**

LWB303	Commercial Law*	12	3
LWB311	Administrative Law*	12	3
	One Law Elective Unit	8-12	2-3

**Year 5, Semester 1**

AYB217	Introductory Accounting	12	3
LWB401	Company Law & Partnership*	12	3
	One Law Elective Unit	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 Units:** Refer to full-time course structure.

**Note:** The accelerated nature of the part-time internal and external course structure results in a credit point loading equivalent to that of a full-time student. Consequently, enrolment in these programs will attract student guild fees and HECS liability calculated at full-time rates.

**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 units – Government and Introductory Accounting – and two Law elective units, and may be granted credit for such units.

		<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

\* Unit extends over two semesters.

+ Units LWB104 Legal Research and Writing 1 and LWB415 Legal Research and Writing 2 may be studied as optional units – they are not required units of the LLB course for graduates.

**Year 1, Semester 2**

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

**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 Unit	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 Units	16-24	4-6

**Law Elective Units:** Refer to full-time course structure.

**Special Accelerated 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 units – Government and Introductory Accounting – and two Law elective units, and may be granted credit for such units.

		<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

\* Unit extends over two semesters.

+ Units LWB104 Legal Research and Writing 1 and LWB415 Legal Research and Writing 2 may be studied as optional units – they are not required units of the LLB course for graduates.

**Year 1, Semester 2**

LWB101	Introduction to Law*	12	3
LWB102	Law of Contract*	12	3
LWB103	Torts*	12	3
LWB104	Legal Research & Writing 1+	4	1

**Year 2, Semester 1**

LWB201	Land Law*	12	3
LWB202	Criminal Law & Procedure*	12	3
LWB301	Equity*	12	3

**Year 2, Semester 2**

LWB201	Land Law*	12	3
LWB202	Criminal Law & Procedure*	12	3
LWB301	Equity*	12	3

**Year 3, Semester 1**

LWB203	Constitutional Law*	12	3
LWB303	Commercial Law*	12	3
LWB311	Administrative Law*	12	3

**Year 3, Semester 2**

LWB203	Constitutional Law*	12	3
LWB303	Commercial Law*	12	3
LWB311	Administrative Law*	12	3

**Year 4, Semester 1**

LWB401	Company Law & Partnership*	12	3
LWB403	Taxation Law*	12	3
	One Law Elective Unit	8-12	2-3

**Year 4, Semester 2**

LWB309	Succession	8	2
LWB401	Company Law & Partnership*	12	3
LWB403	Taxation Law*	12	3
	One Law Elective Unit	8-12	2-3

**Year 5, Semester 1**

LWB404	Civil Procedure*	12	3
LWB414	Drafting & Legal Transactions*	8	2
LWB415	Legal Research & Writing 2*	4	1
	One Law Elective Unit	8-12	2-3

**Year 5, Semester 2**

LWB402	Evidence	12	3
LWB404	Civil Procedure*	12	3
LWB409	Professional Conduct (5 weeks)	2	2
LWB414	Drafting & Legal Transactions*	8	2
LWB415	Legal Research & Writing 2+	4	1

**Law Elective Units:** Refer to full-time course structure.

**Note:** The accelerated nature of the part-time internal and external course structure results in a credit point loading equivalent to that of a full-time student. Consequently, enrolment in these programs may attract student guild fees and HECS liability calculated at full-time rates.

\* Unit extends over two semesters (referring to LW31).

+ Units LWB104 Legal Research and Writing 1 and LWB415 Legal Research and Writing 2 may be studied as optional units – they are not required units of the LLB course for graduates.

## ■ Bachelor of Arts (Justice Studies) (JS31)

**Location:** Kelvin Grove campus

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

**Total Credit Points:** 288

**Standard Credit Points/Full-Time Semester:** 48

**Course Coordinator:** Mr Geoff Dean

### 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 elective units (48 credit points) or second Professional Minor (48 credit points) OR Secondary Major (72 credit points) and two elective units (24 credit points).

### Full-Time Course Structure

		<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
<b>Year 1, Semester 1</b>			
JSB101	Contemporary Issues in Australian Society 1	12	3
JSB102	Social Ethics & 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 & Interpersonal Relationships	12	3
JSB106	Human Resource Management in Justice Administration	12	3
JSB107	Introduction to Criminology	12	3
JSB108	Introduction to Professional Studies	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
JSB210	Procedure & Practice	12	3
	OR		
JSB211	Process Theory & Application	12	3
	OR		
JSB214	Conflict Management: Alternative Dispute Resolution	12	3
	OR		
JSB217	Criminal Justice Systems - Perspectives of Punishment PLUS Elective Unit	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	Interprofessional Cooperation	12	3
	OR		
JSB213	Protective Security - Theory and Application	12	3
	OR		
JSB215	Public Law 1: Administrative Law	12	3
	OR		
JSB218	Traditional Punishment Processes & Issues	12	3

### Year 3, Semester 1

JSB301	Law of Evidence & Investigation	12	3
JSB302	Ideology, Ethics & Justice	12	3
JSB310	Organised Crime	12	3
	OR		
JSB311	Protective Security - Issues & Practice	12	3
	OR		
JSB314	Public Law 2: Human Rights	12	3
	OR		
JSB317	Punishment Systems in Action	12	3
	PLUS Elective Unit		

### Year 3, Semester 2

JSB303	Human Dynamics: The Justice Professions	12	3
JSB312	Applied Policing Research Project	12	3
	OR		
JSB313	Intelligence Research - Issues, Procedures & Practice	12	3
	OR		
JSB315	Current Issues in Administrative Law & Justice	12	3
	OR		
JSB318	Contemporary Issues & Trends in Modern		
	Punishment Administrations	12	3
	PLUS Two Elective Units		

### Elective Units

JSB220	Intelligence Activity: Law, Morality & the Media	12	3
JSB221	Intelligence & National Security	12	3
JSB222	Management of Protective Security	12	3
JSB223	Intelligence, Organisations, Personnel & Operations	12	3
JSB230	Protective Security in Automated Systems	12	3

Elective units can be taken from other units offered within Justice Studies or the University.

### Part-Time Course Structure

Contact the School of Justice Studies for details.

## ■ 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 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

\* This course will be discontinued. No first year intake for 1993 and only second year units are available in 1993.

## ■ Advanced Certificate in Policing (JS11)

**Location:** Kelvin Grove campus and Queensland Police Academy

**Course Duration:** 1 year full-time

**Total Credit Points:** 96

**Standard Credit Points/Full-Time Semester:** 48

**Course Coordinator:** Mr Geoff Dean

Course Structure		Credit Points	Contact Hrs/Wk
<b>Year 1, Semester 1</b>			
JSB101	Contemporary Issues in Australian Society 1	12	3
JSB102	Social Ethics & 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>			
JSB115	Personal and Interpersonal Relationships*	12	4
JSB116	Organisation Theory & Management in Policing*	12	3
JSB117	Foundations of Crime & Policing*	12	3
JSB120	Police Professional Studies*	12	6

\* Unit taught at the Queensland Police Academy.

# FACULTY OF SCIENCE

# Courses

■ Master of Applied Science (SC80).....	561
■ Master of Applied Science (Medical Physics), Master of Applied Science (Medical Ultrasound) (PH80) .....	566
■ Master of Applied Science (Medical Laboratory Science) (LS85).....	569
■ Graduate Diploma in Applied Science (SC71) .....	570
■ Graduate Diploma in Applied Science (Medical Physics), Graduate Diploma in Applied Science (Medical Ultrasound) (PH71).....	570
■ Graduate Diploma in Biotechnology (LS70) .....	570
■ Policy on Credit Transfer Relating to Bachelor-Level Courses in the Faculty of Science .....	571
■ Bachelor of Applied Science (Honours) (SC60) .....	572
■ Bachelor of Applied Science with Majors in Biology, Chemistry, Microbiology/Biochemistry, Geology, Mathematics, Physics (SC30) .....	574
■ Bachelor of Applied Science (Applied Chemistry) (CH32) .....	580
■ Bachelor of Applied Science (Mathematics) (MA34) .....	582
■ Bachelor of Applied Science (Medical Laboratory Science) (LS36) .....	584
■ Bachelor of Applied Science (Medical Radiation Technology) with Majors in Medical Imaging Technology and Radiotherapy Technology (PH38) .....	586
■ Associate Diploma in Applied Science (Biology), Associate Diploma in Applied Science (Chemistry) (SC10) .....	588
■ Associate Diploma in Clinical Techniques with Elective Units in Laboratory Techniques and Anaesthetic Techniques (LS15).....	590
■ Policy on Submission of Project Reports for Assessment.....	593
■ Policy and Procedures Concerning Exemption from Practical Work.....	594



# FACULTY OF SCIENCE

## Course Structures

### ■ Master of Applied Science (SC80)

**Location:** Gardens Point campus

**Course Duration:** 2 years full-time, 4 years part-time

**Total Credit Points:** 192

**Entry Requirement:** Bachelor of Applied Science

The objectives of this course are:

- to provide postgraduate educational opportunities in specialised fields of applied science by means of a program which involves either an original contribution to knowledge or an original application of existing knowledge
- to provide further education in research methods
- to enable graduates employed in industry to undertake further education by research and thesis
- to enable industrial organisations and other external agencies to sponsor a student research program under the control and supervision of the faculty, and thus to further relationships between the University and industry or other external agencies engaged in applied science, to their mutual advantage.

This degree consists of two stages:

Stage One comprises a program of assessed coursework. (Honours graduates may be exempt from Stage One.)

On successful completion of Stage One, students with a GPA of less than 5.0 will be awarded a Graduate Diploma in Applied Science while students with a GPA of 5.0 or greater are permitted to continue to stage Two.

In Stage Two, students are required to undertake a program of supervised research and investigation at a level of scientific competence significantly higher than that expected of a first degree graduate. Students can undertake an approved project in any area of interest supported by a research centre, research concentration or School within the Faculty of Science.

#### 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 their 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 they are 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 their 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 the School of Physics. In some instances, a bridging program may be necessary.

Applicants must also demonstrate, in writing, that access to suitable clinical experience will be available for the duration of the course.

#### Course Requirements

##### MEDICAL PHYSICS MAJOR

To complete Stage 1, students must complete units selected from the list below, totalling 96 credit points. Units LSN158, PHN155, PHN156, PHN157, PHN257, PHN352, PHN354, PHN357 are not available to students in the Medical Physics Major. PHN151, PHN154, PHN351 and PHN353 are not recommended to students in the Medical Physics Major.

##### MEDICAL ULTRASOUND MAJOR

To complete Stage 1, students must complete units selected from the list below, totalling 108 credit points. Units PHN157, PHN257 and PHN357 are compulsory for students in the Medical Ultrasound Major. Unit 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>			
LSX125	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 Examinations of the Head, Neck & Peripheral Organs	6	2
PHN357	Clinical Ultrasound 3*	12	
PHN407	Case Studies*	6	

### Second Semester

LSN158	Ultrasonic Pathology	6	2
LSX225	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	

### Summer School (10 weeks)

PHN257	Clinical Ultrasound 2*	12	
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The three units PHN157, PHN257 and PHN357 are compulsory for students in the Medical Ultrasound Major. Each unit involves 240 hours of clinical experience and students must successfully complete these units in the order PHN157, PHN257 and PHN357, unless special permission is granted.

### Stage 2

PHN520	Project+	48 per semester
PHN540	Project#	24 per semester

### Credit Points

**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 unit.

A student who has received a 'Fail' result in the project unit may re-enrol in the unit 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 units in their first semester of enrolment, and Stage 1 first semester units in their second semester of enrolment.

\* No formal class attendance required.

+ Unit extends over two semesters.

# Unit extends over four semesters.



## ■ 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:** Contact School of Life Science, telephone 864 2553

### 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.

#### 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 elective units 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>			
LSN150	Epidemiology & Research Strategies	12	3
PUN602	Health Planning, Management/Evaluation	12	3
	OR		
LSB537	Genetic Engineering*	12	5
	OR		
LSP739	Clinical Molecular Biology*	12	5

\* First offering in 1994.

### Year 2, Semester 2

LSN306	Pathophysiology	12	3
LSN401	Advances in Medical Laboratory Science OR	12	3
LSB637	Molecular Genetics*	12	5

### Year 3, Semester 1

LSN510	Clinical Biochemistry 1	}	select one	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 1			12	3
LSN530	Dissertation 1			12	3

### Year 3, Semester 2

LSN531	Dissertation 2	}	select one	12	3
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

## ■ 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:** 2 years part-time

**Total Credit Points:** 96

**Standard Credit Points/Full-Time Semester:** 48

**Course Coordinator:** Dr Peter Timms

\* First offering in 1994.

## 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.

### Part-Time Course Structure

		Credit Points	Contact Hrs/Wk
<b>Year 1, Semester 2</b>			
CHP120	Biochemical Engineering	12	5
LSB468	Molecular Biology	12	5
<b>Year 2, Semester 1</b>			
CHP320	Downstream Processing	12	5
LSB537	Genetic Engineering*	12	5
<b>Year 2, Semester 2</b>			
LSP127	Topics in Biotechnology	12	5
LSB637	Molecular Genetics*	12	5
<b>Year 3, Semester 1</b>			
LSP735	Human Molecular Biology	12	5
LSP737	Plant & Animal Molecular Biology	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 units 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.

\* First offering 1994.

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 one of Chemistry, Geology, Life Science, Mathematics or 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:**

Chemistry Major – Dr John Bartley

Geology Major – Dr Al Grenfell

Life Science Major – Associate Professor James Dale

Mathematics Major – Associate Professor Helen MacGillivray

Medical Physics Major – Mr Ross Dunlop

### **Entry Requirements**

To be eligible for admission, students should have completed QUT'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 units 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 depends on the major and may vary slightly from one student to another, depending on the program and particular units 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 units and selection of units for their major.

## Course Structure

The general course structure consists of a project (see below) and units or advanced topics chosen from the program of the selected major. The unit IFN001 Advanced Information Retrieval Skills may also be included.

		<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
<b>CHEMISTRY MAJOR</b>			

### Semester 1

CHB700/1	Research Project	22	
CHB701/1	Complementary Studies for Chemists	4	2
CHB740	Elective Studies 1*	6	2
CHB780/1	Advanced Topics in Chemistry 1	12	6
IFN001	Advanced Information Retrieval Skills	4	2

### Semester 2

CHB700/2	Research Project	26	
CHB701/2	Complementary Studies for Chemists	4	2
CHB780/2	Advanced Topics in Chemistry 1	12	6
CHB840	Elective Studies 2*	6	2

## GEOLOGY MAJOR

Students should complete Project (Semesters 1 and 2), Case Studies (Semesters 1 and 2), Information Retrieval Skills and Complementary Studies.

ESB700/1	Project	24	
ESB700/2	Project	24	
ESB701/1	Geological Case Studies	5	3
ESB701/2	Geological Case Studies	5	3
ESB710	Environmental Geochemistry+	6	2
ESB711	Advanced Resource Geology+	6	2
ESB712	Advanced Engineering Geology+	6	2
ESB713	Petrochemistry+	6	2
ESB714	Global Plate Tectonics+	6	2
EAB715	Advanced Sedimentology and Stratigraphy+	6	2
ESB716	Advanced Topics in Geophysics+	6	2
SCB702	Complementary Studies	8	6

## LIFE SCIENCE MAJOR

LSB722	Research Strategies	16	4
LSB723	Readings in Life Science 1	16	
LSB823	Readings in Life Science 2	48	1
IFN001	Advanced Information Retrieval Skills	4	1

and one of the following:

LSB558	Applied Physiology	12	5
LSB734	Analytical Electron Microscopy	12	5
LSB801	Advanced Plant Physiology and Biochemistry	12	5
LSB804	Advanced Population Biology	12	5
LSP120	Advanced Genetic Engineering	12	5
LSP735	Human Molecular Biology	12	5
LSP737	Plant and Animal Molecular Biology	12	5

or another unit approved by the Head of School in consultation with the Supervisor.

## MATHEMATICS MAJOR

Students select five units each of 12 credit points, plus completing a project of 36 credit points. The units are chosen from those listed below if offered in that year.

\* Students choose two units from a selection of Chemistry and other relevant disciplines.

+ Students choose three units from a selection of advanced topics (ESB710 – ESB716).

ITN502	Computer Security	12	4
MAB906	Topics in Analysis	12	4
MAB913	Numerical Analysis 3	12	4
MAB920	Introduction to Cryptology	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 (elective unit 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
MAB989/1	Project	18	
MAB989/2	Project	18	
<b>MEDICAL PHYSICS MAJOR</b>			
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
PHB705/1	Project	24	
PHB705/2	Project	24	

## ■ 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

**Course Coordinator:** Dr Don Field

### 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 units totalling at least 288 credit points, comprising major and minor studies, and supporting units.

Major and minor studies are defined in terms of the discipline and the academic level at which units 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 units 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 units 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 unit 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 units 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 unit will have one or more first level prerequisite units. Similarly, a third level unit is likely to have one or more second level prerequisite units. The unit 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 units and specifications listed are the minimum requirements for completion of a major in each discipline.

<b>Major</b> Biology	<b>First Level</b> Biology 1 Biology 2 OR Cell Biology Chemistry 1 and 2 Maths 1 Statistics	<b>Second &amp; Third Level</b> 120 credit points of Biology units including 48 from the third level
Chemistry	Chemistry 1 and 2 At least 36 credit points from other first level Science units OR Computing OR Introduction to Computing	120 credit points of Chemistry units including 48 from the third level
Geology	Earth Science 1 and 2 At least 48 credit points from other first level Science units OR Computing OR Introduction to Computing	120 credit points of Geology units including 48 from the third level
Mathematics	Mathematics 1 and 2 Discrete Mathematics Statistics	120 credit points of Mathematics units including 48 from the third level
Microbiology/ Biochemistry	Cell Biology Chemistry 1 and 2 Statistics Human Anatomy and Physiology At least 12 credit points from other first level science units OR Computing OR Introduction to Computing	120 credit points of Microbiology/Biochemistry units including 48 from the third level
Physics	Physics 1 and 2 Maths 1 and 2 Statistics* Introduction to Computing*	120 credit points of Physics units including 48 from the third level Mathematics 3 Mathematics 4

All students must take School Learning at University unless exemption has been granted.

**Note:** There is no evening program for part-time students. Part-time students will attend classes with full-time students and therefore will require day release to attend most units.

<b>Table 2 - Schedule of Units</b>		<b>Semester Offered</b>	<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
<b>First Schedule - First Level Units</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
LSB242	Human Anatomy & Physiology	1,2	12	5
MAB102	Basic Mathematics	1	12	4
MAB212	Mathematics 1	1,2	12	4
MAB222	Mathematics 2	1,2	12	4

\* These units need not be taken in First Year.



MAB232	Discrete Mathematics	1,2	12	4
MAB237	Statistics	1,2	12	4
MAB301	Calculus & Analysis A	1,2	12	4
MAB303	Algebra & Analysis B	1,2	12	4
MAB304	Calculus & Vector Algebra	1,2	12	4
MAB321	Computational Mathematics	1,2	12	4
MAB342	Mathematics of Finance	1,2	12	4
MAB347	Statistics 1A	1,2	12	4
MAB348	Statistics 1B	1,2	12	4
PHB122	Physics 1	1	12	5
PHB222	Physics 2	2	12	5
SCB001	Learning at University	1	2	1
SCB222	Exploration of the Universe	2	12	5

#### INTRODUCTORY UNITS

CHB001	Introductory Chemistry	1,2	6	3
LSB001	Introductory Biology	1	6	3
PHB001	Introductory Physics	1,2	6	3

#### OTHER UNITS

Students may take units from any discipline within the University. Some other units offered at first level are listed below:

PHB150	Physics 1H	1	12	6
PHB263	Physics 2E	2	12	6

#### Second Schedule - Second Level Units

		Semester Offered	Credit Points	Contact Hrs/Wk
CHB313	Analytical Chemistry 3	1,2	12	5
CHB333	Inorganic Chemistry 3	1	12	5
CHB352	Organic Chemistry 3	1	12	5
CHB372	Physical Chemistry 3	1	12	5
CHB423	Chemical Technology 4	2	12	5
CHB453	Organic Chemistry 4	2	12	5
CHB473	Physical Chemistry 4	2	12	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 & Stratigraphy	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
LSB308	Biochemistry 3	1	12	5
LSB312	Marine Studies	1	12	5
LSB318	Biochemical Methodology 3	1	12	5
LSB322	Plant Biology	1	12	5
LSB328	Microbiology 3	1	12	5
LSB332	Plant Physiology 1	1	12	5
LSB352	Population Ecology	1	12	5
LSB358	Physiology 2S	1	12	5
LSB362	Quantitative Methods in Life Science	1	12	5
LSB402	Animal Biology 2	2	12	5
LSB408	Biochemistry 4	2	12	5
LSB412	Applied Ecology A	2	12	5
LSB418	Biochemical Methodology 4	2	12	5
LSB422	Applied Ecology B	2	12	5
LSB428	Microbiology 4	2	12	5
LSB432	Genetics	2	12	5
LSB438	Immunology 4	2	12	5
LSB442	Plant Tissue Culture 1	2	12	5
LSB458	Physiology 3S	2	12	5
LSB468	Molecular Biology	2	12	5

MAB422	Topics in Mathematics	2	12	4
MAB432	Mathematics 3	1	12	4
MAB452	Mathematics 4	2	12	4
MAB601	Multivariable Calculus	1	12	4
MAB602	Vector Field Study Theory	2	12	4
MAB612	Differential Equations	2	12	4
MAB618	Numerical Analysis 1	1,2	12	4
MAB619	Numerical Analysis 2	2	8	3
MAB620	Finite Mathematics	2	12	4
MAB630	Linear Algebra & its Applications	1	12	4
MAB635	Mechanics	1	12	4
MAB637	Operations Research 1A	1,2	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
PHB322	Physics 3A	1	12	5
PHB332	Physics 3B	1	12	5
PHB342	Physics 3C	1	12	5
PHB422	Physics 4A	2	12	5
PHB432	Physics 4B	2	12	5
PHB462	Experimental Physics 4	2	12	5

#### OTHER UNITS

Students may take units from any discipline within the University. Some other units 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 unit SCB100 Cooperative Education. On completion of the approved cooperative education placement the student resumes formal studies.

Third Schedule - Third Level Units		Semester Offered	Credit Points	Contact Hrs/Wk
CHB510	Instrumental Analysis	1	8	4
CHB513	Instrumental Analysis 5	1	12	5
CHB523	Chemical Technology 5	1	12	5
CHB533	Inorganic Chemistry 5	1	12	5
CHB553	Organic Chemistry 5	1	12	5
CHB573	Physical Chemistry 5	1	12	5
CHB600	Project	2	20	10
CHB603	Project	2	12	5
CHB610	Advanced Analysis	2	4	2
CHB613	Instrumental Analysis 6	2	12	5
CHB623	Chemical Technology 6	2	12	5
CHB627	Chemical Technology 6	2	4	2
CHB628	Energy Technology	2	6	3
CHB643	Applied Spectroscopy	2	12	5
CHB660	Industrial Visits	2	2	1
CHB663	Environmental Chemistry	2	12	5
CHB690	Advanced Materials Science	2	8	3
CHB693	Materials Chemistry	2	12	5
ESB512	Igneous & Metamorphic Petrology	1	12	5
ESB522	Hydrogeology	1	12	5
ESB532	Applied Geophysics	1	12	5

ESB552	Applied Geochemistry	1	12	5
ESB562	Mineral Exploration	1	12	5
ESB592	Geological Field Excursions	1	12	5
ESB602	Geological Investigations	2	12	5
ESB612	Earth Resources Management	2	12	5
ESB622	Engineering Geology	2	12	5
ESB632	Advanced Geophysics	2	12	5
ESB642	Structural Geology & Geotectonics	2	12	5
ESB662	Mining Geology & Feasibility	2	12	5
ESB672	Geology of Fossil Fuels	2	12	5
LSB372	Aquaculture 1	1	12	5
LSB502	Projects 1	1	16	6
LSB508	Biochemistry 5	1	12	5
LSB512	Environmental Monitoring	1	8	3
LSB528	Microbial Physiology & Metabolism	1	12	5
LSB532	Population Genetics	1	8	3
LSB538	Molecular Biology	1	12	5
LSB542	Plant Tissue Culture 2	1	12	5
LSB548	Biochemical Separations	1	12	5
LSB558	Applied Physiology	1	12	5
LSB568	Electron Microscopy	2	12	5
LSB572	Aquaculture 2	2	12	5
LSB578	Virology	1	12	5
LSB582	Selected Topics 1	1	12	5
LSB592	Field Studies 2	1	12	5
LSB602	Projects 2	2	16	6
LSB608	Biochemistry 6	2	12	5
LSB618	Analytical Biochemistry 4	1	12	5
LSB622	Case Studies	2	12	5
LSB628	Applied Microbiology	2	12	5
LSB632	Plant Physiology 2	2	12	5
LSB638	Genetic Engineering	2	12	5
LSB648	Microbial Technology	2	12	5
LSB652	Biological Resources	2	12	5
LSB658	Clinical Physiology	2	12	5
LSB662	Population Management	2	12	5
LSB682	Selected Topics 2	2	12	5
MAB906	Topics in Analysis	1	12	4
MAB907	Statistics 3A	1	12	4
MAB908	Statistics 3B	2	12	4
MAB912	Fluid Dynamics	1	12	4
MAB913	Numerical Analysis 3	2	12	4
MAB920	Introduction to Cryptology	1	12	4
MAB927	Operations Research 2A	1	12	4
MAB928	Operations Research 2B	2	12	4
MAB929	Time Series & Statistical Forecasting	2	12	4
MAB941	Mathematical Modelling in Economics	1	12	4
MAB942	Optimisation Methods	1	12	4
MAB960	Project Work	1,2	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
MAB973	Partial Differential Equations	2	12	4
MAB974	Sampling & Survey Techniques	2	12	4
MAB975	Ordinary Differential Equations & Chaos	2	12	4
MAB976	Reliability & Survival Analysis	2	12	4
PHB512	Project	1,2	12	5
PHB522	Applied Quantum Mechanics	1	12	5
PHB532	Electromagnetic Field Theory	1	12	5
PHB562	Physical Methods of Analysis	1	12	5
PHB622	Solid State Physics	1	12	5
PHB632	Nuclear & Particle Physics	2	12	5
PHB642	Applied Radiation & Health Physics	2	12	5

#### OTHER UNITS

Students may take units from any discipline within the University. Some other units offered at third level are listed below.

PUB631	Nutritional Biochemistry	2	12	5
SCB510	Introduction to Quality Management	1	12	3

### ■ 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

Full-Time Course Structure		Credit Points	Contact Hrs/Wk
<b>Year 1, Semester 1</b>			
CHB173	Chemistry 1A	12	6
CHB183	Chemistry 1B	12	6
MAB212	Mathematics 1	12	4
PHB122	Physics 1	12	5
SCB001	Learning at University	2	1
<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 Unit	12	
<b>Year 3, Semester 1</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 Unit	12	
<b>Year 3, Semester 2</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 Unit	12	

### 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 unit SCB100 Cooperative Education. On completion of the approved industrial experience the student resumes formal studies.

Part-Time Course Structure		Credit Points	Contact Hrs/Wk
<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
<b>Year 2, Semester 1</b>			
CHB283	Chemistry 2A	12	5
MAB237	Statistics	12	4
<b>Year 2, Semester 2</b>			
CHB253	Chemistry 2B	12	5
CSB263	Computing	12	4
<b>Year 3, Semester 1</b>			
CHB353	Organic Chemistry 3A	12	5
CHB373	Physical Chemistry 3A	12	5
<b>Year 3, Semester 2</b>			
CHB473	Physical Chemistry 4	12	5
CHB453	Organic Chemistry 4	12	5
<b>Year 4, Semester 1</b>			
CHB313	Analytical Chemistry 3	12	5
CHB333	Inorganic Chemistry 3	12	5
<b>Year 4, Semester 2</b>			
CHB423	Chemical Technology 4	12	5
	Elective Unit	12	
<b>Year 5, Semester 1</b>			
CHB513	Instrumental Analysis 5	12	5
CHB523	Chemical Technology 5	12	5

**Year 5, Semester 2**

CHB613	Instrumental Analysis 6	12	5
CHB623	Chemical Technology 6	12	5

**Year 6, Semester 1**

Two of:

CHB533	Inorganic Chemistry 5	12	5
CHB553	Organic Chemistry 5	12	5
CHB573	Physical Chemistry 5	12	5
	Elective Unit	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*	10	4

**Year 6, Semester 1 (Final Offering 1993)**

CHB510	Instrumental Analysis	8	4
CHB601	Project*	10	6
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 Unit+		
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 units from the list given below, having regard to specified prerequisites and co-requisites, and must complete:

- (i) all units from List A;
- (ii) at least 36 credit points from List B;

\* Unit 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.

(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.

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
List 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
List C				
MAB601	Multivariable Calculus	1	12	4
MAB602	Vector Field Theory	2	12	4
MAB612	Differential Equations	2	12	4
MAB618	Numerical Analysis 1	1,2	12	4
MAB619	Numerical Analysis 2	1	8	3
MAB620	Finite Mathematics	2	12	4
MAB630	Linear Algebra & its Applications	1	12	4
MAB635	Mechanics	1	12	4
MAB637	Operations Research 1A	1,2	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
Elective Units [a maximum total of 72 credit points with not more than 48 at first level]		1,2	8-12ea	3-6ea
List D				
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	Introduction to Cryptology	1	12	4
MAB927	Operations Research 2A	1	12	4
MAB928	Operations Research 2B	2	12	4
MAB929	Time Series & Statistical Forecasting	2	12	4
MAB941	Mathematical Modelling in Economics	1	12	4
MAB942	Optimisation Methods	1	12	4
MAB960	Project Work	1,2	12	4
MAB970	Probability Theory & Stochastic Processes	1	12	4
MAB971	Advanced Mathematics of Finance	2	12	4
MAB973	Partial Differential Equations	2	12	4
MAB974	Sampling & Survey Techniques	2	12	4
MAB975	Ordinary Differential Equations & Chaos	2	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 unit 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:** Contact School of Life Science Office, telephone 864 2553.

### Professional Recognition

Graduates are immediately eligible for graduate membership of the Australian Institute of Medical 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.

Students are required to undertake a two to four 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 unit LSB480 Professional Practice.

### Full-Time Course Structure

		<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
<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 Technology 3	8	4
LSB340	Physiology 3	8	4
LSB370	Disease Processes 3	4	2



**Year 2, Semester 2**

LSB400	Microbiology 4	8	4
LSB408	Biochemistry 4	12	5
LSB430	Immunology 4	8	4
LSB437	Molecular Biology	8	4
LSB450	Haematology 4	8	4
LSB460	Histopathology 4	8	4
LSB480	Professional Practice		2-4 weeks

**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
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**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 3	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 Technology 3	8	4
LSB308	Biochemistry 3	12	5

**Year 3, Semester 2**

LSB400	Microbiology 4	8	4
LSB408	Biochemistry 4	12	5
LSB437	Molecular Biology	8	4

**Year 4, Semester 1**

LSB340	Physiology 3	8	4
LSB370	Disease Processes	4	2

**Year 4, Semester 2**

LSB430	Immunology 4	8	4
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LSB450	Haematology 4	8	4
LSB460	Histopathology 4	8	4
LSB480	Professional Practice		2-4 weeks

#### **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**

LSB530	Immunology 5	8	4
LSB600	Clinical Bacteriology 6	16	7

#### **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

#### **UPGRADE PROGRAM**

A program to allow holders of an associate diploma or diploma to upgrade to degree level is offered in both majors.

<b>Full-Time Course Structure</b>		<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
<b>Year 1, Semester 1</b>			
<b>COMMON UNITS</b>			
COB136	Professional Communication (Service)	6	1.5
LSB141	Anatomy & Physiology 1	10	4
MAB151	Quantitative Techniques	4	2
NSB201	Principles of Patient Care	4	2
SSB910	Introductory Psychology for Health Professionals	4	2
PHB111	Physics 1B	8	3
PHB178	Principles of Medical Radiations	10	5

## Year 1, Semester 2

### COMMON UNITS

LSB221	Introduction to Pathology	6	3
LSB241	Anatomy & Physiology 2	10	4
PHB272	Radiation Physics 1	12	5

### MEDICAL IMAGING TECHNOLOGY MAJOR

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 UNITS

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 UNITS

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 UNITS

PHB471	Radiation Physics 2	4	2
PHB575	Medical Radiation Computing 2	8	3
PHB672/1	Project	2	1

### 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
<b>RADIOTHERAPY TECHNOLOGY MAJOR</b>			
PHB584	Principles of Treatment 2	4	2
PHB587	Orthovoltage & Superficial Therapy	10	4
PHB589	Clinical Radiotherapy 4	12	6
PHB685	Computer Assisted Treatment Planning 2	8	4
<b>Year 3, Semester 2</b>			
<b>COMMON UNITS</b>			
PHB671	Radiation Biology	4	2
PHB672/2	Project	6	3
SSB918	Counselling for Health Professionals	4	2
<b>MEDICAL IMAGING TECHNOLOGY MAJOR</b>			
PHB676	Advanced Radiographic Technique 2	8	3
PHB679	Clinical Radiography 5	14	6
	<b>EITHER</b>		
PHB680	Nuclear Medicine Imaging 2	10	5
	<b>OR</b>		
PHB681	Computed Tomography Imaging	10	5
<b>RADIOTHERAPY TECHNOLOGY MAJOR</b>			
PHB583	Complementary & Evolving Techniques	6	3
PHB683	Oncological Imaging	6	3
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 – Contact School of Life Science Office, telephone (07) 864 2553

Chemistry Major – Dr Graham Smith

<b>Full-Time Course Structure (Semester 1 common to both Majors)</b>		<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
<b>Year 1, Semester 1</b>			
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
<b>BIOLOGY MAJOR</b>			
<b>Year 1, Semester 2</b>			
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
	Elective Units* - two of:		
LSX313	Taxonomy	8	3
LSX314	Aquaculture Techniques	8	3
LSX315	Plant Physiology	8	3
LSX316	Hydrobiological Techniques	8	3
	OR		
	Other approved Elective Units		

### 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 Unit* - one of:		
CSA259	Introduction to Computing	8	2
LSX414	Animal Physiology	8	3
LSX415	Plant Cell & Tissue Culture	8	3
	OR		
	Any other approved Elective Unit		

## 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 Unit* - one of:		
CHA580	Food Chemistry 1	8	3
	OR		
ESA310	Geology	8	3
	OR		
LSX123	Microbiology 1	8	3
	OR		
	Any other approved Elective Unit		

### Year 2, Semester 2

CHA368	Industrial Chemistry	8	3
CHA410	Computers in Chemistry	8	3
CHA550	Organic Chemistry 3	8	3

\* Students should discuss their choice of elective units with the course coordinator.

CHA610	Industrial Analysis	8	3
CHA670	Physical Chemistry 3	8	3
	Elective Unit*- one of:		
CHA680	Food Chemistry 2	8	3
	OR		
LSX223	Microbiology 2	8	3
	OR		
CHA520	Chemical Process Principles 2	8	3
	OR		
	Any other approved Elective Unit		

### **Part-Time Course Structure**

Part-time programs can be organised in consultation with the course coordinator. Refer to the full-time program for semester of offering of units. Day release will be required for most units.

**Notes:** Students in the Biology Major may apply to have their current employment arranged and assessed in lieu of one or more elective units. In such cases, the employer, in consultation with the Head of School, nominates an honorary supervisor to collaborate with a School 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 units 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 Elective Units 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:** Contact School of Life Science Office, telephone (07) 864 2553

### **Professional Recognition**

#### **LABORATORY TECHNIQUES ELECTIVE UNITS**

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 Scientists and are eligible to become intermediate members of this professional body.

\* Students should discuss their choice of elective units with the course coordinator.

## ANAESTHETIC TECHNIQUES ELECTIVE UNITS

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 (Elective Units in Group A), or Anaesthetic Techniques (Elective Units in Group B). To be awarded the Associate Diploma in Clinical Techniques, a student must complete all the units in either prescribed program.

Students undertaking the Anaesthetic Techniques Elective Units may be exempted from whole or part of a unit on providing evidence of training and experience acceptable to the Head of School.

### Full-Time Course Structure

The first year is common to both Programs

**Credit  
Points**

**Contact  
Hrs/Wk**

#### 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 Elective Units (Group A) or the Anaesthetic Techniques Elective Units (Group B).

### LABORATORY TECHNIQUES PROGRAM

#### Year 2, Semester 1

MAA251	Statistics & Data Processing	8	3
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#### Group A Elective Units

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 Elective Units

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 Elective Units

#### 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	3

In Year 3, Semester 1 students should choose either the Laboratory Techniques Elective Units or the Anaesthetic Techniques Elective Units.

## LABORATORY TECHNIQUES PROGRAM

Students enrolled in the part-time program are required to pass Introduction to Computing together with five Techniques 3 units and five Techniques 4 units 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

CSA259	Introduction to Computing	8	2
LSX420	Clinical Biochemical Techniques 4	8	4
LSX421	Clinical Microbiological Techniques 4	8	4
LSX422	Haematological Techniques 4	8	4

\* This unit for Laboratory Techniques Program only.



#### **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.

### **■ Policy on Submission of Project Reports for Assessment**

The Science Academic Board has approved the following rules with regard to the completion of project units in all undergraduate and postgraduate courses (including honours projects):

- (i) A student enrolled in a project unit 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 unit 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 unit would terminate. In such cases, an 'A' result shall be given initially to the student in respect of this unit.
- (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 unit for the succeeding semester. Failure to re-enrol in the project unit by the last day of the deferred examination period for the semester in which, otherwise, the student's enrolment in that unit would terminate will result in a grade of Fail (2 or 4) being awarded in that unit.

Subsequent to the assessment process, the relevant school 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 unit.

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.

## ■ Policy and Procedures Concerning Exemption from Practical Work

Exemptions from practical work will not normally be granted by Schools in the Faculty. However, where a student wishes to be exempt on the grounds of some extenuating circumstances from the practical component of a unit attempted previously, they must write to the Head of School controlling the unit (or Dean of Faculty in the case of Faculty units), stating the following:

- (i) the year in which the unit was previously attempted;
- (ii) the total mark/grade obtained for the practical component for the semester, and the maximum possible mark/grade, where known; and
- (iii) the circumstances in which the students are basing their application.

Any documentation relevant to these circumstances must be provided with the application.

Students, if required, must submit practical reports, notebooks, field notes, etc from their previous attempt at the unit. No exemption will be given for practicals where the unit has been attempted more than two years prior to the current enrolment. Students seeking exemption from practical work must do so within two weeks of the commencement of the semester in which the unit is taken.

Heads of School will:

- (i) consult with relevant course/strand coordinators and unit lecturers with regard to the application;
- (ii) respond to the application in writing; and
- (iii) forward a copy of their response to the course/strand coordinator and unit lecturer.

Heads of School will determine individual School policies on exemptions and these may be obtained from the School offices.

# INDEX OF COURSES

## University-Wide and Interfaculty Courses

■ Doctor of Philosophy (IF49) .....	151
■ Master of Applied Science (Research) .....	158
■ Graduate Diploma in Quality (IF69) .....	163
■ Honours Degrees .....	164
■ Bachelor of Applied Science/Bachelor of Laws (IF34) .....	166
■ Bachelor of Arts/Bachelor of Laws (IF36) .....	167
■ Bachelor of Engineering (Electronics)/Bachelor of Information Technology (IF23) .....	172
■ Bachelor of Business (Accountancy)/Bachelor of Laws (IF31) .....	174
■ Bachelor of Information Technology/Bachelor of Laws (IF33) .....	176
■ Bachelor of Engineering (Manufacturing Systems)/ Bachelor of Business (Marketing) (IF53) .....	178
■ Bachelor of Applied Science (Surveying)/Bachelor of Information Technology (IF52) .....	180
■ New Opportunities in Tertiary Education (NOTE) Program (BN10) .....	182

## Faculty of Arts

■ Master of Arts (AA22) .....	187
■ Graduate Diploma of Social Science (Counselling) (SS10) .....	188
■ Bachelor of Arts (Honours) (Drama or Visual Arts) (AA40) .....	189
■ Bachelor of Arts (HU20) .....	190
■ Bachelor of Arts (Dance) (AA11) .....	194
■ Bachelor of Arts (Drama) (AA21) .....	195
■ Bachelor of Arts (Music) (AA51) .....	198
■ Bachelor of Arts (Visual Arts) (AA71) .....	200
■ Bachelor of Social Science (Human Services) (SS07) .....	201
■ Bachelor of Social Science (Psychology) (SS07) .....	201
■ Associate Diploma in Arts (Dance) (AA10) .....	206

## Faculty of Built Environment and Engineering

■ Master of Applied Science (Research) (BN71) .....	211
■ Master of Built Environment (BN73) .....	217
■ Master of Engineering (BN72) .....	224
■ Master of Engineering Science (Civil) (CE74) .....	231
■ Master of Engineering Science (Computer Engineering) (EE75) .....	233
■ Master of Engineering Science (Engineering Management) (ME76) .....	234
■ Graduate Diploma in Computer Engineering (EE65) .....	235
■ Graduate Diploma in Industrial Design (AR61) .....	236

■ Graduate Diploma in Interior Design (AR62) .....	237
■ Graduate Diploma in Landscape Architecture (PL66).....	238
■ Graduate Diploma in Municipal Engineering (CE63) .....	240
■ Graduate Diploma in Project Management (CN64) .....	242
■ Graduate Diploma in Surveying Practice (SV68) .....	244
■ Graduate Diploma in Urban and Regional Planning (PL67).....	245
■ Graduate Diploma of Urban Design (PL69).....	246
■ Graduate Certificate in Architectural Practice (AR80) .....	248
■ Graduate Certificate in Project Development (CN81) .....	249
■ 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) ...	252
■ Bachelor of Applied Science (Construction Management) (CN31) .....	257
■ Bachelor of Applied Science (Property Economics) (CN32) .....	261
■ Bachelor of Applied Science (Quantity Surveying) (CN33).....	263
■ Bachelor of Architecture (AR41) .....	267
■ Bachelor of Applied Science (Surveying) (SV34) .....	269
□ Special notes relating to Bachelor of Engineering courses.....	271
■ Bachelor of Engineering (Aerospace Avionics) (EE43).....	272
■ Bachelor of Engineering (Civil) (CE42) .....	274
■ Bachelor of Engineering (Electrical and Computer Engineering) (EE44) .....	279
■ Bachelor of Engineering (Mechanical) (ME45) .....	283
■ Bachelor of Technology (Mechanical) (ME35) .....	287
■ Associate Diploma in Cartography (SV24) .....	288
■ Associate Diploma in Civil Engineering (CE21).....	289
■ Associate Diploma in Electrical Engineering (EE22) .....	292
■ Associate Diploma in Mechanical Engineering (ME23) .....	295

## Faculty of Business

■ Master of Business (Commerce) (BS87) .....	301
■ Master of Business (Communication) (BS84).....	303
■ Master of Business (Management) (BS83) .....	305
■ Master of Business (Marketing) (BS85).....	312
■ Master of Business Administration (BS81) .....	314
■ Master of Quality (BS86) .....	319
□ Graduate Diploma in Business Administration .....	320
■ Graduate Diploma in Advanced Accounting (BS70) .....	320
■ Graduate Diploma in Business (Administration) (BS73) .....	322
■ Graduate Diploma in Communication (BS72).....	327

■ Graduate Diploma in Business (Industrial Relations) (BS74) .....	332
■ Graduate Diploma in Quality (BS77).....	333
■ Bachelor of Business (Honours) (Accountancy) (BS60) .....	334
■ Bachelor of Business (Honours) (Communication) (BS61).....	334
■ Bachelor of Business (Honours) (Management) (BS62) .....	336
■ Special requirements for the Bachelor of Business degree course in the Faculty of Business .....	340
■ Bachelor of Business (BS50) .....	340
□ Accountancy Major .....	341
□ Advertising Major.....	345
□ Banking and Finance Major .....	347
□ Economics Major.....	349
□ Film and Television Production Major .....	352
□ Human Resource Management Major .....	354
□ Industrial Relations Major .....	356
□ International Business Major .....	358
□ Journalism Major.....	362
□ Management Major .....	364
□ Marketing Major .....	366
□ Organisational Communication Major .....	368
□ Organisational Studies Major .....	370
□ Public Administration Major .....	372
□ Public Relations Major .....	374
■ Associate Diploma in Business (Industrial Relations) (BS10) .....	383

## Faculty of Education

■ Doctor of Education (ED11).....	387
■ Master of Education (Research) (ED12) .....	393
■ Master of Education (ED13) .....	398
■ Graduate Diploma in Education (Computer Education) (ED21) .....	406
■ Graduate Diploma in Education (Curriculum) (ED22) .....	407
■ Graduate Diploma in Education (Early Childhood) (ED20) .....	410
■ Graduate Diploma in Education (Early Childhood Teaching) (ED30) .....	411
■ Graduate Diploma in Education (Educational Management) (ED23) .....	411
■ Graduate Diploma in Education (Primary Teaching) (ED31) .....	413
■ Graduate Diploma in Education (Resource Teaching) (ED24).....	414
■ Graduate Diploma in Education (Secondary Teaching) (ED32) .....	415
■ Graduate Diploma in Education (Teacher-Librarianship) (ED25) .....	417
■ Graduate Diploma in Education (Teacher-Librarianship) (ED27) .....	419
■ Bachelor of Education (In-Service) (ED26) .....	419
■ Bachelor of Education (Secondary) (ED50) .....	424

■ Bachelor of Education (Primary) (ED51) .....	443
■ Bachelor of Education (Early Childhood) (ED52) .....	449
■ Bachelor of Teaching (Early Childhood/Primary) .....	453
□ Bachelor of Teaching (Early Childhood) (ED40) .....	453
□ External Child Care Upgrading Program (ED42) .....	454
□ Bachelor of Teaching (Primary) (ED41) .....	455
■ Graduate Certificate in Education (ED61) .....	457
■ Graduate Certificate in Education (TESOL) (ED60) .....	460

## Faculty of Health

■ Master of Health Science (HL88) .....	463
■ Master of Nursing (NS85).....	467
■ Master of Public Health (PU85).....	469
■ Graduate Diploma in Advanced Nursing Practice (NS62).....	472
■ Graduate Diploma in Health Promotion (PU69) .....	474
■ Graduate Diploma in Nutrition and Dietetics (PU62) .....	475
■ Graduate Diploma in Occupational Health and Safety (PU65).....	476
■ Bachelor of Applied Science (Environmental Health) (PU42) .....	477
■ Bachelor of Applied Science (Home Economics) (PU49) .....	478
■ Bachelor of Applied Science (Human Movement Studies) (HM42).....	479
■ Bachelor of Applied Science (Occupational Health and Safety) (PU44).....	481
■ Bachelor of Applied Science (Optometry) (OP42).....	482
■ Bachelor of Applied Science (Podiatry) (PU45) .....	484
■ Bachelor of Business (Health Administration) (PU48).....	485
■ Bachelor of Nursing (Postregistration) (NS48).....	488
■ Bachelor of Nursing (Preregistration) (NS40).....	492

## Faculty of Information Technology

■ Master of Applied Science (Research) (IT84) .....	501
■ Master of Applied Science (Computing) (CS36).....	501
■ Master of Information Technology (IS50) .....	504
■ Graduate Diploma in Business (Information Systems) (IS18).....	506
■ Graduate Diploma in Commercial Computing (IS04) .....	506
■ Graduate Diploma in Computing Science (CS19) .....	507
■ Graduate Diploma in Information Systems (IS24).....	509
■ Graduate Diploma in Library and Information Studies (IS25) .....	510
■ Graduate Diploma in Library Science (IS65).....	512
■ Bachelor of Applied Science (Computing) (Honours) (CS55) .....	513
■ Bachelor of Business (Computing) (Honours) (IS61) .....	514
■ Bachelor of Information Technology (IT20).....	515

■ Common First Year: Bachelor of Business (Computing), Bachelor of Applied Science (Computing) (IT32) .....	522
■ Bachelor of Applied Science (Computing) (CS28) .....	523
■ Bachelor of Applied Science (Computing) (IS28) .....	526
■ Bachelor of Business (Computing) (IS10) .....	528
■ Bachelor of Business (Information Management) (IS43) .....	528
■ Associate Diploma in Business (Computing) (IS08) .....	530

## Faculty of Law

■ Doctor of Juridical Science (LW50) .....	535
■ Master of Laws by Coursework (LW51) .....	536
■ Master of Laws by Research (LW52) .....	538
■ Master of Legal Practice (LP51) .....	541
■ Graduate Diploma in Legal Practice (LP41) .....	543
■ Bar Practice Course .....	545
■ Bachelor of Arts (GU)/Bachelor of Laws (LX32) .....	545
■ Bachelor of Business – Accounting (USQ)/Bachelor of Laws (LX31) .....	548
■ Bachelor of Laws (LW31) .....	549
■ Bachelor of Arts (Justice Studies) (JS31) .....	556
■ Associate Diploma in Business (Court and Parliamentary Reporting) (JS21) .....	557
■ Advanced Certificate in Policing (JS11) .....	558

## Faculty of Science

■ Master of Applied Science (SC80) .....	561
■ Master of Applied Science (Medical Physics), Master of Applied Science (Medical Ultrasound) (PH80) .....	566
■ Master of Applied Science (Medical Laboratory Science) (LS85) .....	569
■ Graduate Diploma in Applied Science (SC71) .....	570
■ Graduate Diploma in Applied Science (Medical Physics), Graduate Diploma in Applied Science (Medical Ultrasound) (PH71) .....	570
■ Graduate Diploma in Biotechnology (LS70) .....	570
■ Policy on Credit Transfer Relating to Bachelor-Level Courses in the Faculty of Science .....	571
■ Bachelor of Applied Science (Honours) (SC60) .....	572
■ Bachelor of Applied Science with Majors in Biology, Chemistry, Microbiology/Biochemistry, Geology, Mathematics, Physics (SC30) .....	574
■ Bachelor of Applied Science (Applied Chemistry) (CH32) .....	580
■ Bachelor of Applied Science (Mathematics) (MA34) .....	582
■ Bachelor of Applied Science (Medical Laboratory Science) (LS36) .....	584
■ Bachelor of Applied Science (Medical Radiation Technology) with Majors in Medical Imaging Technology and Radiotherapy Technology (PH38) .....	586

■ Associate Diploma in Applied Science (Biology), Associate Diploma in Applied Science (Chemistry) (SC10) .....	<b>588</b>
■ Associate Diploma in Clinical Techniques with Elective Units in Laboratory Techniques and Anaesthetic Techniques (LS15) .....	<b>590</b>
■ Policy on Submission of Project Reports for Assessment.....	<b>593</b>
■ Policy and Procedures Concerning Exemption from Practical Work .....	<b>594</b>



# 4

## Unit Synopses



# UNIT SYNOPSIS

This section provides synopses of the units offered in the 'Academic Programs' section of this Handbook.

The synopses are presented in alpha-numeric order according to their codes.

## Unit Coding and Numbering

The unit code is of the format XXX999. The first two characters indicate the faculty or school administering the unit. The third character indicates the level of the course in which the unit is normally taught.

### Unit 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	Mathematics, Science and Technology Education
AY	Accountancy	ME	Mechanical and Manufacturing Engineering
BN	Built Environment and Engineering	MJ	Media and Journalism
BS	Business	MK	Marketing, Advertising and Public Relations
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		
IS	Information Systems		
IT	Information Technology		
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 Units

\* Codes to be phased out as existing QUT courses are recredited.

## Prerequisite and Co-requisite Units

For definitions of the terms prerequisite and co-requisite unit(s) refer to Rule 1.8.2 of the Student Rules, Policies and Procedures in this Handbook.

### ■ AAB001 RESEARCH PROJECT

Students undertake a substantial piece of supervised research after academic advisement. This might include practical work and associated seminars.

Course: AA40 Credit Points: 48

### ■ AAB020 RESEARCH PROJECT

See AAB001.

Course: AA40 Credit Points: 48

### ■ AAB021 ADVANCED RESEARCH METHODS

Familiarisation with a range of (mostly) quantitative methodological tools. Methodologies selected tend to meet the students requirements.

Course: AA40  
Credit Points: 12 Contact Hours: 3 per week

### ■ AAB023 ADVANCED READINGS IN AUSTRALIAN ART

Examination of contemporary matters about Australian art practice and art context. Articulation of the Australian situation with international trends.

Course: AA40  
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.

Courses: AA11, AA21, AA51, AA71  
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 dependent on agreement amongst their users; 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.

Courses: AA21, AA71, ED50  
Credit Points: 12 Contact Hours: 3 per week

### ■ AAB100 COMPOSITION 1

Introduction to the domain of composition, providing a sound grounding in approaches to dance making; developing a personal movement language and an investigation of how dance presents/creates meaning.

Course: AA11  
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.

Course: AA11  
Credit Points: 12 Contact Hours: 3 per week

### ■ AAB104 MUSIC

Elements of music: beat, accent, rhythm and phrasing; nineteenth and twentieth century musical styles; notation, score reading, vocal and improvisation studies.

Course: AA11  
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.

Course: AA11  
Credit Points: 12 Contact Hours: 3 per week

### ■ AAB109 PRACTICUM

Consolidation of the student's knowledge and skills in direct artistic experience in real contexts.

Course: AA11 Credit Points: 12

### ■ AAB111 DANCE RESEARCH

Practical training in scholarly methods and professional skills in research.

Course: AA11  
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.

Course: AA11  
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.

Course: AA11  
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.

Course: AA11  
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.

Course: AA11  
Credit Points: 8 Contact Hours: 2 per week

### ■ AAB116 DANCE IN THE COMMUNITY

Introductory studies of dance in the community; the role of dance in the community; procedures for establishing a dance project; basic program planning; teaching approaches for community dance.

Course: AA11  
Credit Points: 12 Contact Hours: 3 per week

### ■ AAB117 DANCE IN EDUCATION

The philosophy of the arts in education, particularly dance; role and profile of an arts educator; investigation of domains involved in arts learning.

Courses: AA11, ED22  
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.

Course: AA11 Credit Points: 16

### ■ AAB119 JAZZ & FOLK DANCE

Jazz and folk dances; historical and cultural contexts, incorporating practical experiences and analytical knowledge of dance fashions in a social context.

Courses: AA11, ED22  
Credit Points: 12 Contact Hours: 3 per week

### ■ AAB121 CONTEMPORARY TECHNIQUE 1

The basic contemporary dance vocabulary; study of Graham, Cunningham or Limon Technique; reference

to development of strength, flexibility and placement of spine and limbs; basic combinations of movements; analysis of dance sequences.

Course: AA11

Credit Points: 16 Contact Hours: 7.5 per week

### ■ AAB122 CONTEMPORARY TECHNIQUE 2

Technical work: off-balance turns and rapid changes of weight, level and direction; exploration of rhythm; emphasis on performance of sequence work.

Course: AA11

Prerequisite: AAB121

Credit Points: 16 Contact Hours: 7.5 per week

### ■ AAB123 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.

Course: AA11

Credit Points: 16 Contact Hours: 6 per week

### ■ AAB124 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.

Course: AA11

Prerequisite: AAB123

Credit Points: 16 Contact Hours: 6 per week

### ■ AAB125 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.

Course: AA11

Credit Points: 12 Contact Hours: 3 per week

### ■ AAB126 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; elements of theatre production; lighting, sound and costume.

Course: AA11

Prerequisite: AAB100

Credit Points: 16 Contact Hours: 5 per week

### ■ AAB151 CONTEMPORARY TECHNIQUE 1

The basic contemporary dance vocabulary (contraction, release, etc.); reference to development of strength, flexibility and placement of spine and limbs.

Course: AA11

Credit Points: 12

### ■ AAB152 CONTEMPORARY TECHNIQUE 2

Continuation of AAB102. Basic combinations of movements; analysis of dance sequences.

Course: AA11

Prerequisite: AAB121

Credit Points: 12

### ■ AAB153 ADVANCED PERFORMANCE 1

Attainment of outstanding practical skills combining use of aesthetic quality and artistry.

Course: AA11

Prerequisite: Grade of 6 or 7 in AAB121 and AAB123.

Credit Points: 20

### ■ AAB154 ADVANCED PERFORMANCE 2

Continuation of AAB153.

Course: AA11

Prerequisite: AAB153

Credit Points: 36

### ■ AAB155 ADVANCED ANALYSIS 1: BALLET

The skills involved in the aesthetic appreciation and analysis of the masterworks of ballet.

Course: AA11

Prerequisite: AAB106

Credit Points: 12

Contact Hours: 3 per week

### ■ AAB156 ADVANCED ANALYSIS 2: MODERN DANCE

The aesthetic appreciation and analysis of the masterworks of modern/contemporary dance.

Course: AA11

Prerequisite: AAB106

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/contemporary dance used to engage in a comparison of features of specific dances chosen for detailed study.

Course: AA11

Prerequisites: AAB155, 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.

Course: AA11

Co-requisite: AAB155

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.

Course: AA11

Co-requisites: AAB156

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 technology.

Course: AA11

Prerequisites: AAB158 and AAB159

Credit Points: 12

Contact Hours: 5 per week

### ■ AAB161 DANCE IN THE COMMUNITY 1

In depth studies in teaching dance: program planning and teaching approaches for specific dance groups.

Course: AA11

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.

Course: AA11

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.

Course: AA11

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.

Course: AA11

Credit Points: 8

### ■ AAB202 ACTING 1

Psychological and non-psychological approaches to acting and the actor's preparation techniques; Stanislavski-based approaches to realism, elimination of bad habits and theatrical dishonesty; Brecht-based approaches to issues-based theatre. Lectures, tutorials and rehearsals involving selected extracts from modern plays, with in-house performances. Exploration of appropriate actor's exercises.

Courses: AA21, ED22

Credit Points: 8 Contact Hours: 6 per week

### ■ AAB203 ACTING 2

Focus on Shakespeare; work on verse, small scenes and soliloquies.

Courses: AA21, ED22

Credit Points: 12 Prerequisite: AAB202 Contact Hours: 4 per week

### ■ AAB204 VOICE & MOVEMENT 1

Body awareness; sense of space; breathing; expression and articulation; text and context; research.

Courses: AA21, ED50

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.

Courses: AA21, ED50

Credit Points: 8 Prerequisite: AAB204 Contact Hours: 4 per week

### ■ AAB206 STAGECRAFT 1

Scenery construction; stage properties: budget and purchasing, 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, pattern styling, use of sewing machine, fabric construction to create costumes.

Course: AA21

Credit Points: 8 Contact Hours: 4 per week

### ■ AAB207 STAGECRAFT 2

Theatre sound: sound effects, live and recorded, stage sound equipment. Stage management: 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.

Courses: AA21, ED22

Credit Points: 8 Contact Hours: 4 per week

### ■ AAB208 ELEMENTS OF DRAMA

Minimal drama: fiction plus tension; three dimensions of expression: light/dark, movement/stillness, sound/silence; three elements of dramatic form: space, time, communication; symbols and meaning; distance from the action; communicating ideas.

Courses: AA21, ED22, ED50

Credit Points: 12 Contact Hours: 4 per week

### ■ AAB209 INTRODUCTORY THEATRE STUDIES

An introduction to shaping the theatrical event as director, designer, playwright.

Course: AA21

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 of England; England's popular theatre of the nineteenth century.

Courses: AA21, ED50

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 before and after World War II; community theatre.

Courses: AA21, ED50

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.

Courses: AA21, ED22

Credit Points: 8 Contact Hours: 3 per week

### ■ AAB214 DRAMA PROCESS

Workshops involving individual, face-to-face and group role play; participant enrolment, leader-in-role and intervention; identification with role; negotiation, devising and consequent decision-making; dramatic tension and resolution; structuring for the theme and for the dramatic moment; distancing devices; reflection, re-enactment and remaking.

Courses: AA21, ED22, ED50

Prerequisite: AAB208

Credit Points: 8 Contact Hours: 3 per week

### ■ AAB215 THEATRE DESIGN

Establishing the scene; staging alternatives; lighting and scenery; costume design; scale models; drawings.

Course: AA21

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.

Course: AA21

Credit Points: 8 Prerequisite: AAB209 Contact Hours: 3 per week

### ■ AAB217 ARTS RESEARCH & EVALUATION 1

Accessing and collation of pertinent resources, critical observation techniques; case study methods.

Course: AA21

Credit Points: 12 Contact Hours: 3 per week

### ■ AAB218 ARTS RESEARCH & EVALUATION 2

Study of a major play in production or a project involving performance from one frame of reference.

Course: AA21

Credit Points: 8 Prerequisite: AAB217 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.

Course: AA21

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.

Courses: AA21, ED50

Credit Points: 8 Contact Hours: 2 per week

### ■ AAB225 PRACTICUM 1

Students have an opportunity to practise as artists within a specific community and to participate in an artistic/advocacy project in the community. Elective unit studies influence the emphasis of the practicum, which involves one of the three main communities identified: artistic, public, institutional.

Courses: AA21, ED50

Credit Points: 12

### ■ AAB226 PRACTICUM 2

See AAB225.

Course: AA21

Prerequisite: AAB225

Credit Points: 12

### ■ AAB227 PRACTICUM 3

See AAB225.

Course: AA21

Prerequisite: AAB226

Credit Points: 8

### ■ AAB241 VOICE 1

The psychological and physiological underpinning of the voice; structure of texts; development of voice and speech and an introductory training program.

Course: AA21

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.

Course: AA21

Prerequisite: AAB241

Credit Points: 8

Contact Hours: 2 per week

### ■ AAB243 VOICE 3

Development of advanced vocal techniques; development of audition materials.

Course: AA21

Prerequisite: AAB242

Credit Points: 8

Contact Hours: 2 per week

### ■ AAB244 VOICE 4

Development of advanced vocal techniques and of audition materials suitable for a variety of venues.

Course: AA21

Prerequisite: AAB243

Credit Points: 8

Contact Hours: 2 per week

### ■ AAB245 MOVEMENT

Development of the actor's physical expressiveness, strength and stamina. A specific form is selected eg. an Asian form: Kabuki, Noh, Kathakali; a European form: Greek, Commedia, Restoration.

Course: AA21

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.

Course: AA21

Credit Points: 12

Contact Hours: 3 per week

### ■ AAB247 ACTING 3

Philosophies of theatre and their relation to performance; exercises, research and practical work on selected texts. Introduction to acting for the camera.

Course: AA21

Prerequisite: AAB203

Credit Points: 12

Contact Hours: 4 per week

### ■ AAB248 ACTING 4

Research, rehearsal and performance.

Course: AA21

Prerequisite: AAB247

Credit Points: 16

Contact Hours: 4 per week

### ■ AAB249 DANCE STYLES

Dance styles and their corresponding conceptual and historical bases; performance skills and abilities.

Course: AA21

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.

Course: AA21

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.

Course: AA21

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.

Course: AA21

Credit Points: 8

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.

Course: AA21

Credit Points: 12

Contact Hours: 3 per week

### ■ AAB264 PERFORMING ARTS PROMOTION

Publicity, public relations and advertising in the arts context. Practical skills for low-budget operations.

Course: AA21

Credit Points: 8

Contact Hours: 2 per week

### ■ AAB265 ISSUES IN ARTS MANAGEMENT

Fundraising and sponsorship; law and the arts; issues and current issues, eg. multiculturalism, tourism.

Course: AA21

Credit Points: 12

Contact Hours: 3 per week

### ■ AAB266 PRODUCTION PLANNING

Opportunity for students to apply the theory and practice learnt in other units to production situations; the planning and initial preparations for productions being undertaken in theatre.

Course: AA21

Credit Points: 8

Contact Hours: 2 per week

### ■ AAB281 TECHNICAL ASPECTS OF THEATRE DESIGN

Analysis of text for design purposes: set, costumes and props; adapting to space; the influence of par-

tical staging systems on design choices; scale drawings and models; lighting and the set.

Course: AA21

Credit Points: 8 Contact Hours: 2 per week

### ■ AAB287 THE STAGE SET

Interpreting working drawings; costing and materials selection; safety procedures; construction.

Course: AA21

Prerequisite: AAB207

Credit Points: 8 Contact Hours: 3 per week

### ■ AAB289 PRODUCTION TECHNIQUES 1

Lighting - rigging and focussing; operation of manual and basic memory control systems; operator paperwork; basic colour theory. Sound - recording and editing effects; set up of basic theatre sound system; playback techniques; operator paperwork. Communication in the production team.

Course: AA21 Prerequisites: AAB206, AAB207

Credit Points: 12 Contact Hours: 6 per week

### ■ AAB290 PRODUCTION TECHNIQUES 2

Lighting design theory; procedures and planning; practical application of theory; communication in the production team; current practice.

Course: AA21

Prerequisite: AAB289

Credit Points: 8 Contact Hours: 3 per week

### ■ AAB291 PRODUCTION TECHNIQUES 3

Sound design theory; procedures and planning; practical application of theory; communication in the production team; current practice.

Course: AA21

Prerequisite: AAB289

Credit Points: 8 Contact Hours: 3 per week

### ■ AAB292 STAGE MANAGEMENT 1

Stage management planning and procedures from the pre-production period to the performance season.

Course: AA21 Prerequisites: AAB206, AAB207

Credit Points: 12 Contact Hours: 3 per week

### ■ AAB293 STAGE MANAGEMENT 2

Wardrobe management and stage props management. Elementary theatre design, working drawings/patterns, construction techniques, maintenance.

Course: AA21 Prerequisites: AAB206, AAB207

Credit Points: 8 Contact Hours: 6 per week

### ■ AAB294 STAGE MANAGEMENT 3

Advanced practical stage management exercises: tour planning and management; stage management across performance disciplines; score reading.

Course: AA21

Prerequisite: AAB293

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.

Courses: AA21, ED50

Credit Points: 8 Contact Hours: 3 per week

### ■ AAB303 THEATRE IN EDUCATION

The 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: management of space, time, energy levels and group rhythms.

Courses: AA21, ED22

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; modes of knowing, propositional knowledge and tacit understanding.

Courses: AA21, ED50

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.

Courses: AA21, ED22, ED50

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.

Course: AA21

Prerequisite: AAB215

Credit Points: 12

### ■ AAB322 ADVANCED DESIGN 2

The philosophy and practice of a specific designer; assignment to a production as assistant designer.

Course: AA21

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).

Course: AA21

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.

Course: AA21

Prerequisite: AAB213

Credit Points: 12

### ■ AAB325 ADVANCED DIRECTING 2

The philosophy and practice of a major director; assignment to a major production as assistant director.

Course: AA21

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).

Course: AA21

Prerequisite: AAB324

Credit Points: 24

### ■ AAB327 ADVANCED PLAYWRITING 1

Secondment to a major production within or outside the University as dramaturg (researcher and interpretative consultant). Scriptwriting project.

Course: AA21

Prerequisite: AAB216

Credit Points: 12

### ■ AAB328 ADVANCED PLAYWRITING 2

Study of a selected scriptwriting style. A major playwrighting project in any dramatic medium.

Course: AA21

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.

Course: AA21

Credit Points: 24

### ■ AAB410 ART CURRICULUM DESIGN & DEVELOPMENT

Major art curriculum approaches as found in the literature and a variety of art syllabus support docu-



ments. Analysis of art curriculum planning models; design and development of art programs for schools; production of art resources to support curriculum.

**Course:** ED26

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ AAB411 DRAMA ACROSS THE CURRICULUM

Processed models of curriculum applied to drama method; drama methods, 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.

**Course:** ED26

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ AAB412 ART CURRICULUM STUDIES 1

Students develop planning and teaching skills in selected curriculum areas. Content includes: the nature of the curriculum area/discipline; its role and contribution as a medium for education; introduction to relevant syllabuses and curriculum documents; lesson and curriculum unit planning activities; and teaching strategies designed to promote a range of learning experiences in selected curriculum areas.

**Course:** ED50

**Prerequisite:** 48 credit points in each relevant discipline area.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ AAB413 ART CURRICULUM STUDIES 2

Extends upon AAB412; curriculum development within the context of contemporary policies, frameworks and agencies; principles of measurement, assessment and evaluation; teaching and learning strategies; directions in curriculum development.

**Course:** ED50

**Prerequisite:** AAB412

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ AAB414 DRAMA CURRICULUM STUDIES 1

Students develop planning and teaching skills in selected curriculum areas; the nature of the curriculum area/discipline and its role and contribution as a medium for education; introduction to relevant syllabuses and curriculum documents; lesson and curriculum unit planning activities; and teaching strategies designed to promote a range of learning experiences in selected curriculum areas.

**Course:** ED50

**Prerequisite:** 48 credit points in each relevant discipline area.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ AAB415 DRAMA CURRICULUM STUDIES 2

Extends on AAB414; curriculum development within the context of contemporary policies, frameworks and agencies; principles of measurement, assessment and evaluation; teaching and learning strategies; directions in curriculum development.

**Course:** ED50

**Prerequisite:** AAB414

**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; seeks to develop genuine enquiry and the attainment of appropriate levels of competence of techniques, materials and resources to bring ideas to fruition.

**Course:** ED50

**Credit Points:** 12      **Contact Hours:** 4 per week

#### ■ AAB422 COMPUTER GRAPHICS 1

An introduction to the processes and possibilities for computer-generated imaging. Undertaking of projects to develop understanding of the relationships between the historical, cultural, aesthetic and productive aspects of computer-generated art forms.

**Course:** ED50

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ AAB423 COMPUTER GRAPHICS 2

This advanced level study enables the student to utilise this core and pursue specialised computer knowledge graphic applications in image enhancement, animation, presentation or video interaction.

**Course:** ED50

**Prerequisite:** AAB422

**Credit Points:** 12      **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 curriculum area. As with CUB302, establishes principles which are used to guide school experience during teaching practice and also as a beginning teacher.

**Course:** ED50

**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.

**Course:** ED50

**Prerequisites:** AAB434, AAB425, CUB302

**Credit Points:** 8      **Contact Hours:** 3 per week

#### ■ AAB438 DRAMA CURRICULUM & TEACHING STUDIES 2

See AAB435.

**Course:** ED50

**Prerequisite:** AAB437

**Co-requisites:** CUB302, EDB302

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ AAB439 DRAMA CURRICULUM & TEACHING STUDIES 3

See AAB436.

**Course:** ED50

**Prerequisites:** MDB356, MDB357, CUB302

**Credit Points:** 8      **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.

**Course:** ED26

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ AAB447 DRAWING 1

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 techni-

ques 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.  
**Course:** ED26

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ AAB448 DRAWING 2

Continuation of AAB447, emphasis on drawing as an end product rather than preparatory process.

**Course:** ED26

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ AAB449 EDUCATIONAL DRAMA

Practical introduction to educational drama techniques: 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.

**Course:** ED26

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ AAB453 COMPUTER GRAPHICS 1

An introduction to the processes and possibilities for computer-generated imaging. Undertaking of projects to develop understanding of the relationship between the historical, cultural, aesthetic and productive aspects of computer-generated art forms.

**Courses:** ED26, ED50

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ AAB454 SCULPTURE 1

Students shall be encouraged to observe, question and explore in order to reach solutions that will reflect an individual imagination; knowledge and skills that apply to sculpture will be pursued.

**Course:** ED50

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ AAB455 SCULPTURE 2

See AAB454.

**Course:** ED50

**Prerequisite:** AAB454

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ AAB456 COMPUTER GRAPHICS 2

Advanced level study enabling students to utilise core understandings and pursue specialised computer graphic applications in image enhancement, animation, presentation or video interaction.

**Course:** ED50

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ AAB457 SCULPTURE 1

Students will be expected to observe, question and explore issues to reach solutions that will reflect an individual imagination. Knowledge and skills that apply to sculpture will be pursued.

**Course:** ED50

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ AAB458 SCULPTURE 2

Enables the student to explore issues to reach advanced solutions; individual imagination. Knowledge and skills that apply to works will be incorporated.

**Course:** ED50

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ AAB459 VISUAL ARTS DESIGN 1

The fundamentals of design thinking and practice; undertaking of projects within and outside the studio to provide understanding of the relationship between the historical, cultural, aesthetic and productive

aspects of design strategies and applications; development of a personal philosophical basis for design practice; professional attitudes and innovative and reflective thinking; research into the knowledge and resources available to design practice.

**Course:** ED50

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ AAB460 VISUAL ARTS DESIGN 2

Advanced exploration of design thinking and practice. Undertaking of selected projects enhancing core understandings and enabling the student to develop specialist knowledge and understanding in an elected domain of design practice.

**Course:** ED50

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ AAB461 VISUAL ARTS DESIGN 1

Exploration of the fundamentals of design thinking and practice. Undertaking of projects within and outside the studio to understand the relationships between the historical, cultural, aesthetic and productive aspects of design strategies and applications. Development of a personal philosophical basis for design practice; professional attitudes and innovative and reflective thinking; research into the knowledge and resources available to design practice.

**Course:** ED50

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ AAB462 VISUAL ARTS DESIGN 2

Advanced exploration of design thinking and practice. Undertaking of selected projects enhancing core understandings and enabling the student to develop specialist knowledge and understanding in an elected domain of design practice.

**Course:** ED50

**Prerequisite:** AAB461

**Credit Points:** 12      **Contact Hours:** 3 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.

**Course:** AA51

**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.

**Course:** AA51

**Prerequisite:** AAB501

**Credit Points:** 16      **Contact Hours:** 2 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, and one other elective ensemble.

**Course:** AA51

**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: membership of instrumental or vocal ensemble, and one other elective ensemble.

**Course:** AA51

**Credit Points:** 12      **Contact Hours:** 6 per week

**■ AAB507 AURAL MUSICIANSHIP 2**

Continuation of AAB506; performance of music in parts; harmonics; transcription of melodies by ear.

Course: AA51

Credit Points: 8 Contact Hours: 2 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.

Course: AA51

Credit Points: 8 Contact Hours: 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.

Course: AA51

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.

Course: AA51

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.

Course: AA51

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.

Course: AA51

Prerequisite: Literacy in notation, key, rhythm. Knowledge of basic chords and progressions.

Credit Points: 12 Contact Hours: 2 per week

**■ AAB517 SYSTEMS OF PART WRITING 2**

Chromatic harmony; nineteenth and twentieth century writing techniques.

Course: AA51

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.

Course: AA51

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.

Course: AA51

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.

Course: AA51

Prerequisite: AAB519

Credit Points: 8

Contact Hours: 4 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.

Course: AA51

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.

Course: AA51

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.

Course: AA51

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.

Course: AA51

Prerequisite: AAB051

Credit Points: 8

Contact Hours: 2 per week

**■ AAB558 ENSEMBLE STUDIES P2**

Group tuition on an orchestral instrument; development of performing technique. Directed ensemble activities including membership of pop ensemble and one other elective ensemble. Aural musicianship as appropriate to the popular music genre.

Course: AA51

Credit Points: 16 Contact Hours: 7 per week

**■ AAB561 PRACTICAL STUDIES A1**

Development of strong and reliable technique, interpretation and performance skills on the chief practical instrument or voice; performance seminar; participation in ensemble and performance activities.

Course: AA51

Credit Points: 12 Contact Hours: 5 per week

**■ AAB562 PRACTICAL STUDIES A2**

Continuation of AAB561 with added emphasis on interpretation, analysis and appropriate public presentation in performance.

Course: AA51

Prerequisite: AAB561

Credit Points: 12

Contact Hours: 5 per week

**■ AAB563 AURAL & WRITTEN MUSICIANSHIP 1**

Writing techniques: diatonic harmony, choice of chords, dominant 7th, harmonisation, melodic decoration, contrapuntal techniques; Aural perception: rhythmic, harmonic and melodic decoration, recognition or intervals, diatonic chords, imitation

and sequence; sight-singing: singing in unison; homophony in minor keys, two-part counterpoint.

Course: AA51

Credit Points: 12 Contact Hours: 5 per week

**■ AAB564 AURAL & WRITTEN MUSICIANSHIP 2**

Continuation of AAB563; develops advanced skills in music writing, contrapuntal and diatonic harmony.

Course: AA51

Prerequisite: AAB563

Credit Points: 12 Contact Hours: 5 per week

**■ AAB566 PRACTICAL STUDIES B1**

Keyboard Musicianship: students with limited keyboard facility will be directed into weekly individual tutorials designed to improve their personal capabilities on keyboard. Group Second Study: students who are exempt from Keyboard Musicianship will be directed to undertake studies on a second instrument or voice in a small group tutorial situation.

Course: AA51

Credit Points: 12 Contact Hours: 3 per week

**■ AAB567 PRACTICAL STUDIES B2**

Keyboard Musicianship: students requiring further development of their facility on keyboard will be directed into weekly individual tutorials designed to reach an acceptable exit level on keyboard at the end of first year. Group Second Study: students who are exempt from further studies in Keyboard Musicianship undertake new or continuing studies in a second instrument or voice in small group tutorials.

Course: AA51

Prerequisite: AAB566

Credit Points: 12 Contact Hours: 3 per week

**■ AAB568 MUSIC IN THE TWENTIETH CENTURY: 1900 – 1950**

Theatre and concert music to 1950. Literature and history: the major composers and selected major compositions from the first half of this century. Writing techniques, in small group sessions, corresponding to the styles studied in the literature segments; individual and group-generated compositions.

Course: AA51

Credit Points: 12 Contact Hours: 4 per week

**■ AAB569 COMPOSITION & TECHNOLOGY 1**

Introduction to music computers, synthesisers, MIDI sequencing, music publishing, recording studio techniques and keyboard musicianship.

Course: AA51

Credit Points: 12 Contact Hours: 3 per week

**■ AAB570 COMPOSITION & TECHNOLOGY 2**

Introduction to the principles and practices of popular song composition and arrangement and norms of the genre. Continuation of keyboard musicianship and advanced music publishing.

Course: AA51

Credit Points: 12 Contact Hours: 3 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.

Course: AA71

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, art-making facilities,

printed and visual resources; individual and group projects introducing a variety of visual art problems.

Course: AA71

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.

Course: AA71

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.

Course: AA71

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.

Course: AA71

Credit Points: 12

**■ AAB706 PRACTICUM 2**

Shared responsibility by graduating students for all aspects of their graduation exhibition.

Course: AA71

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 indicates specific studies in the two-dimensional or three-dimensional areas or a combination of these.

Course: AA71

Prerequisite: AAB703

Credit Points: 24 Contact Hours: 12 per week

**■ AAB708 ADVANCED MEDIA STUDIES 2**

Students 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.

Course: AA71

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.

Course: AA71

Prerequisite: AAB708

Credit Points: 24 Contact Hours: 18 per week

**■ AAB710 ADVANCED MEDIA STUDIES 4**

Independent work in preparation for an exhibition.

Course: AA71

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.

**Courses:** AA71, ED26, ED50

**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.

**Courses:** AA71, ED26

**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.

**Course:** AA71

**Credit Points:** 24

**■ AAB714 PROFESSIONAL STUDIES**

Studio workshop management; business principles; legal principles; promotion and marketing.

**Course:** AA71

**Credit Points:** 12 **Contact Hours:** 4 per week

**■ AAB720 EXTENDED MEDIA STUDY 2**

Extension of studio work in conjunction with AAB708.

**Course:** AA71

**Credit Points:** 12 **Contact Hours:** 3 per week

**■ AAB721 EXTENDED MEDIA STUDY 4**

Extension of studio work in conjunction with AAB709.

**Course:** AA71

**Credit Points:** 12 **Contact Hours:** 3 per week

**■ AAB722 EXTENDED MEDIA STUDY 6**

Extension of studio work in conjunction with AAB710.

**Course:** AA71

**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.

**Course:** AA71

**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 teacher's practical needs of structuring and sequencing learner experiences.

**Course:** ED50

**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 two-dimensional and three-dimensional media, students resolve some predetermined visual problems through conventional and/or divergent responses. These responses employ traditional and contemporary media.

**Course:** ED50

**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 unit 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.

**Courses:** ED41, ED51

**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 unit.

**Courses:** ED41, ED51

**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.

**Course:** ED41

**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.

**Course:** ED41

**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.

**Course:** ED41

**Prerequisite:** AAB906

**Credit Points:** 8 **Contact Hours:** 3 per week

**■ AAB909 PERFORMING ARTS 2**

Students explore specific elements of the dramatic-playing mode; planning and leading of dramatic genres based around improvisatory approaches; 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.

**Courses:** ED41, ED51

**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.

Course: ED41

Prerequisite: AAB909

Credit Points: 12

Contact Hours: 3 per week

### ■ AAB911 EXPLORING MUSIC 1

Aural awareness, literacy and musicianship through vocal skills both solo and ensemble.

Course: ED51

Credit Points: 12

Contact Hours: 3 per week

### ■ AAB912 EXPLORING MUSIC 2

Instrumental music forms with emphasis on recorder ensembles as a means of developing composition and arranging skills, and an awareness of stylistic developments. Conducting, rehearsing and performing techniques will be developed.

Course: ED51

Prerequisite: AAB911

Credit Points: 12

Contact Hours: 3 per week

### ■ AAB913 EXPLORING MUSIC 3

This unit involves a series of lectures on score reading, sight-singing, ensemble singing techniques, rehearsal and conducting skills. Aural training and music writing techniques will be developed through a series of graded experiences throughout the semester.

Course: ED51

Prerequisite: AAB912

Credit Points: 12

Contact Hours: 3 per week

### ■ AAB914 VISUAL & PERFORMING ARTS CURRICULUM 1

An in-depth study of either dance and drama, music or the visual arts; the place of the arts in a balanced curriculum; defining the arts; differences and commonalities; the arts and knowledge; the arts and integration across the primary curriculum.

Course: ED51

Credit Points: 12

Contact Hours: 3 per week

### ■ AAB915 VISUAL & PERFORMING ARTS CURRICULUM 2

An in-depth study of either dance and drama, music or the visual arts; the place of the arts in a balanced curriculum; resourcing the arts; assessment and the arts; the arts and students with special needs; artists and education; the arts in a multicultural society.

Course: ED51

Credit Points: 12

Contact Hours: 3 per week

### ■ AAB916 ADVANCED VISUAL & PERFORMING ARTS CURRICULUM ELECTIVE

The curriculum of dance, drama, music or visual arts to an advanced level; designing and implementing programs in one of the disciplines for the primary school; action research in the classroom to monitor and evaluate an arts curriculum project.

Course: ED51

Credit Points: 12

Contact Hours: 3 per week

### ■ AAB917 THE ARTS & THE WHOLE CURRICULUM

Using the arts in the primary school to integrate and synthesise cultural and historical movements, facts and values; models for planning and delivering an integrated curriculum driven by arts processes; forming multi-disciplinary teams to design, implement and evaluate a curriculum project in schools.

Course: ED51

Credit Points: 12

Contact Hours: 3 per week

### ■ AAB918 ARTS FOUNDATION STUDIES

Foundation experiences introducing the art forms of dance, drama, music and the visual arts; the purposes and functions of the arts in society; practical workshops in each discipline; visits to galleries and theatres in a range of community contexts.

Course: ED51

Credit Points: 12

Contact Hours: 3 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.

Course: ED40

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.

Course: ED40

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.

Course: ED40

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.

Course: ED40

Credit Points: 4

Contact Hours: 2 per week

### ■ AAB931 NATIONAL & FOLK DANCE

Development of steps and styles of national and folk dances; understanding of cultural background of selected populations; costumes; demonstration of selected national and folk dances.

Course: ED40

Credit Points: 8

Contact Hours: 2 per week

### ■ AAB935 GUITAR FOR BEGINNERS

Development of skills 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.

Course: ED40

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.

Course: ED40

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.

Course: ED40

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.  
Course: ED40

**Credit Points: 8      Contact Hours: 2 per week**

**■ AAN001 ARTS RESEARCH METHODS 1**

Research in the arts; defining the research tradition; qualitative research; emerging arts research processes; reporting of research findings.

Course: AA22

**Credit Points: 12      Contact Hours: 3 per week**

**■ AAN002 ARTS RESEARCH METHODS 2**

An application of the understandings gained in Arts Research Methods 1 to a selected area. Normally, the student will produce an interpretive analysis in a written presentation of 5,000 words.

Course: AA22

**Credit Points: 12      Contact Hours: 2**

**■ AAN003 AESTHETIC CODES IN CONTEMPORARY SOCIETY**

Theories of art within the discipline of aesthetics. Five key questions are addressed, against a background of contemporary western society.

Courses: AA22, AA40

**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.

Courses: AA22, AA40

**Credit Points: 12      Contact Hours: 3 per week**

**■ AAN005 ADVANCED ARTS PROJECT**

This unit may be preparatory to the major research project of the Masters course. The project may be articulated with the final major project, in order to establish the initial framework of the major project, and involve technical and conceptual guidance from the relevant supervisor as required. Length of written presentation (or alternative format) to be determined in consultation with the supervisor.

Course: AA22

**Credit Points: 24**

**■ AAN006 INDEPENDENT STUDY**

Independent work of an artistic or scholarly nature which is of limited scope compared with the research project. The student devises an outline of study and/or action in consultation with a staff supervisor. Artistic outcomes would normally be expected to be to the standard of public showing. Written presentation requires a minimum of 6,000 – 10,000 words, or equivalent if other media/reportage is used.

Course: AA40

**Credit Points: 12**

**■ AAN200 DRAMATURGY**

Students investigate the roles of dramaturgy in western theatre. Major practical exercise as production dramaturg on a current production.

Course: AA40

**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.

Course: AA40

**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: 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 in dramatic performance.

Course: AA40

**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.

Course: AA40

**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; specific reference to dance education, drama education, music education (primary and secondary) and visual arts education; two emphases: the how and why looking at the inter-disciplinary capacity of these skills and understandings; and the what; geared to developing productive and critical skills assisting students' orientation and integration into the teaching profession.

**Prerequisite:** Appropriate discipline studies in the undergraduate degree.

Course: ED32

**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; examines the roles of the teacher in the community and the profession.

Course: ED32

**Prerequisite:** AAP420

**Co-requisite:** EDP451

**Credit Points: 12      Contact Hours: 3 per week**

**■ AAP422 DRAMA CURRICULUM & TEACHING STUDIES B**

See AAP421.

Course: ED32

**Prerequisite:** AAP420

**Co-requisite:** EDP451

**Credit Points: 12      Contact Hours: 3 per week**

**■ AAP423 MUSIC CURRICULUM & TEACHING STUDIES B**

See AAP421.

Course: ED32

**Prerequisite:** AAP420

**Co-requisite:** EDP451

**Credit Points: 12      Contact Hours: 3 per week**

**■ AAP424 VISUAL ARTS CURRICULUM & TEACHING STUDIES B**

See AAP421.

Course: ED32

**Prerequisite:** AAP420

**Co-requisite:** EDP451

**Credit Points: 12      Contact Hours: 3 per week**

**■ AAP425 DRAMA CURRICULUM & TEACHING STUDIES C**

This Curriculum B unit 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.

Course: ED32 Co-requisite: EDP451  
Credit Points: 12 Contact Hours: 3 per week

#### ■ AAP426 MUSIC CURRICULUM & TEACHING STUDIES C

See AAP425.  
Course: ED32 Co-requisite: EDP451  
Credit Points: 12 Contact Hours: 3 per week

#### ■ AAP427 VISUAL ARTS CURRICULUM & TEACHING STUDIES C

See AAP425.  
Course: ED32 Co-requisite: EDP451  
Credit Points: 12 Contact Hours: 3 per week

#### ■ AAP501 ART CURRICULUM FOUNDATIONS

The 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.

Courses: ED22, ED32  
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; the learning outcomes of art activities; classroom practice and evaluation across all levels of schooling.

Course: ED22 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.

Courses: ED22, ED26, ED50  
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.

Courses: ED22, ED50 Prerequisite: AAP503  
Credit Points: 12 Contact Hours: 3 per week

#### ■ AAP505 FIBRE ARTS 1

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.

Courses: ED22, ED26, ED50  
Credit Points: 12 Contact Hours: 3 per week

#### ■ AAP506 FIBRE ARTS 2

Continuation of AAP505; self-initiated projects in consultation with lecturer, are developed in this unit.

Provides an overview of relationship between theory, practice and criticism.

Courses: ED22, ED50  
Credit Points: 12 Contact Hours: 3 per week

#### ■ AAP507 PAINTING 1

Introducing and developing an active awareness of both historical and contemporary issues in painting and drawing through studio practice and tutorials; the skills appropriate to the range of available media pursued in studio classes and professional practice.

Courses: ED22, ED26, ED50  
Credit Points: 12 Contact Hours: 3 per week

#### ■ AAP508 PAINTING 2

Further development of traditional and experimental imagery through studio workshops, discussions and professional practice.

Courses: ED22, ED50  
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.

Courses: ED22, ED26, ED50  
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.

Courses: ED22, ED26, ED50  
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 and photographic stencils; presentation of prints.

Courses: ED22, ED50  
Credit Points: 12 Contact Hours: 3 per week

#### ■ AAP512 PRINTMAKING 2

Continuation of AAP511. Motivational sources; creation and applications of techniques and media related to printmaking; exploration of related art areas.

Courses: ED22, ED50 Prerequisite: AAP511  
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.

Course: ED22  
Credit Points: 12 Contact Hours: 3 per week

#### ■ AAP531 ISSUES IN MUSIC EDUCATION

Arts education in Queensland within P-10 framework; role of arts/music education; the process of learning; contributions made by history, sociology, psychology and philosophy to arts education.

Course: ED22  
Credit Points: 12 Contact Hours: 3 per week

#### ■ AAP532 APPLIED STUDIES

Movement, voice and classroom instruments and literature; writing and arranging music for classroom



use; teaching strategies for voice, movement and instrumental music; conducting techniques.

**Course:** ED22

**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.

**Course:** ED22

**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.

**Course:** ED22

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ AAP535 TWENTIETH CENTURY MUSIC

Twentieth century rhythms through dictation, composition, improvisation and performance; overtone series; tone clusters; sound mass and aleatoric procedures; perform material from the twentieth century.

**Courses:** ED22, ED26

**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.

**Course:** AA10

**Credit Points:** 8      **Contact Hours:** 2 per week

### ■ AAX102 DANCE 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.

**Course:** AA10

**Credit Points:** 8      **Prerequisite:** AAX101

### ■ AAX103 MUSIC 1

Musical basics through aural and written theories.

**Course:** AA10

**Credit Points:** 8      **Contact Hours:** 1.5 per week

### ■ AAX104 DANCE KINESIOLOGY & ALIGNMENT

Principles governing human stability and motion; ways muscles work to produce dance movement; machines of the body; movement and dance injuries.

**Course:** AA10

**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.

**Course:** AA10

**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.

**Course:** AA10

**Credit Points:** 8      **Contact Hours:** 3 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.

**Course:** AA10

**Credit Points:** 12

### ■ AAX112 REPERTOIRE & PRACTICE PERIOD 2

Continuation of studies initiated in AAX111.

**Course:** AA10

**Credit Points:** 16      **Prerequisite:** AAX111

### ■ AAX113 REPERTOIRE & PRACTICE PERIOD 3

Continuation of AAX112.

**Course:** AA10

**Credit Points:** 16      **Prerequisite:** AAX112

### ■ AAX114 REPERTOIRE & PRACTICE PERIOD 4

Continuation of AAX113; preparation for the dance industry; curriculum vitae and funding applications.

**Course:** AA10

**Credit Points:** 16      **Prerequisite:** AAX113

### ■ AAX115 DANCE HISTORY

Early development of dance technique; social and religious functions of dance; dance throughout the Renaissance period; the European and Russian contribution to classical ballet; the rise of modern dance in Europe and America; dance in Australia.

**Course:** AA10

**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.

**Course:** AA10

**Credit Points:** 8      **Contact Hours:** 2 per week

### ■ AAX117 BALLET TECHNIQUE 1

The study of ballet technique within the four-tier practical levels system. Principles governing the technique; practical work includes barre work, adagio, pirouettes, allegro, pointe work and pas de deux.

**Course:** AA10

**Credit Points:** 8      **Contact Hours:** 7.5 per week

### ■ AAX118 BALLET TECHNIQUE 2

Continuation of study initiated in AAX117.

**Course:** AA10

**Credit Points:** 8      **Prerequisite:** AAX117

### ■ AAX119 BALLET TECHNIQUE 3

Consolidation of technique; study of differing stylistic approaches to the ballet technique through the four-tier levels system.

**Course:** AA10

**Credit Points:** 8      **Prerequisite:** AAX118

### ■ AAX120 BALLET TECHNIQUE 4

Technique classes of advanced standard incorporating difficult exercise combinations, with an emphasis

on performance quality and style within the four-tier levels system.

**Course:** AA10 **Prerequisite:** AAX119  
**Credit Points:** 8 **Contact Hours:** 7.5 per week

#### ■ AAX121 CONTEMPORARY TECHNIQUE 1

The study of contemporary dance techniques within the four-tier levels system. Practical work includes floor work, centre work and basic combinations to develop flexibility, strength and coordination; vocabulary of contemporary dance techniques.

**Course:** AA10 **Prerequisite:** AAX119  
**Credit Points:** 8 **Contact Hours:** 7.5 per week

#### ■ AAX122 CONTEMPORARY TECHNIQUE 2

Continuation of study initiated in AAX121.

**Course:** AA10 **Prerequisite:** AAX121  
**Credit Points:** 8 **Contact Hours:** 7.5 per week

#### ■ AAX123 CONTEMPORARY TECHNIQUE 3

Consolidation of technical knowledge: increased degree of difficulty in turning and jumping sequences; rapid changes of weight and off-balance work within the four-tier levels system.

**Course:** AA10 **Prerequisite:** AAX122  
**Credit Points:** 8 **Contact Hours:** 7.5 per week

#### ■ AAX124 CONTEMPORARY TECHNIQUE 4

Advanced technique classes incorporating difficult exercise combinations with rapid changes of weight, level, direction; performance quality and style.

**Course:** AA10 **Prerequisite:** AAX123  
**Credit Points:** 8 **Contact Hours:** 7.5 per week

#### ■ ALB100 TAXATION DISPUTES

The increasing role played by administrative law and policy in taxation law and practice; accountants who engage in the provision of tax advice, lodgement of returns and tax planning need an understanding of the underlying principles; accordingly, the unit examines the following: the nature and effect of taxation policy statements and rulings; the self assessment system and the administrative appeals process; the rights of practitioners and clients in relation to audits and investigations; the Australian Taxation Office.

**Course:** BS50 **Prerequisite:** ALB122  
**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ ALB101 COMMERCIAL LAW

Commercial transactions: viz agency, bailment guarantees, cheques and other negotiable instruments, insurance and banking; aspects of partnerships and company law; especially for ED50 students.

**Courses:** ED50, BS50 **Prerequisite:** ALB107  
**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ ALB102 CONSUMER STUDIES

The consumer in the Australian economy; the inter-dependent roles of the consumer, business and government; consumer behaviour; products and services; marketing; advertising; consumer protection.

**Course:** BS50 **Prerequisite:** ALB107  
**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ ALB103 FINANCIAL INSTITUTIONS LAW

The legal framework of banking and other financial transactions: legal constraints upon the operations of financial institutions; bank-customer relationship; Cheque Act, Credit Act, liability for negligent advice.

**Course:** BS50 **Prerequisite:** ALB110 or ALN103  
**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.

**Course:** BS50 **Prerequisite:** HRB131  
**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ ALB105 INTERNATIONAL BUSINESS LAW

Examines the law governing the establishment and conduct of international business; business structures, international contracts, competing legal jurisdictions, codes of conduct; an introduction to the taxation consequences of international business.

**Course:** BS50 **Prerequisite:** ALB110 or ALN103  
**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ ALB106 LAW & COMMUNICATION

Outlines the legal system; legislation and its interpretation; legal reasoning; limits on freedom of expression: torts, crimes, defamation, obscenity; laws affecting the media; contempt of court.

**Course:** BS50 **Prerequisite:** ALB107  
**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ ALB107 LEGAL ENVIRONMENT OF BUSINESS

The rights and major statutes of law affecting an individual's legal responsibilities upon attaining the age of 18; current legislation affecting family relationships; the renting and/or buying of a house; relationships between employer and employee.

**Course:** ED50 **Prerequisite:** ALB107  
**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ ALB108 PUBLIC ADMINISTRATIVE LAW

Nature and development of law; precedent; interpretation of 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 and reform.

**Course:** BS50 **Prerequisite:** ALB107  
**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.

**Courses:** BS50, ED50, IF53, PU48  
**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ ALB111 COMMERCIAL & SECURITIES LAW

Commercial transactions; specific types of contract: sales of goods, credit contracts, agency, bailment and insurance; aspects of the Trade Practices Act and negotiable instruments.

**Course:** BS50 **Prerequisite:** ALB110 or ALN103  
**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.

**Course:** BS50 **Prerequisite:** ALB122  
**Credit Points:** 12 **Contact Hours:** 3 per week

**■ ALB121 INSOLVENCY LAW & PRACTICE**

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.

Course: BS50

Prerequisite: 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: share capital prospectuses, directors' duties, incorporation and registration requirements.

Courses: BS50, BS81

Prerequisite: ALB110 or ALN103

Credit Points: 12 Contact Hours: 3 per week

**■ ALB130 INDIRECT TAXATION**

Taxes other than those imposed upon income: sales tax; customs and excise duties; stamp duty; payroll tax; land tax; training guarantee levy, superannuation guarantee charge.

Course: BS50

Prerequisite: ALB133

Credit Points: 12 Contact Hours: 3 per week

**■ ALB131 TAX PLANNING**

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.

Course: BS50

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.

Courses: BS50, BS81

Prerequisite: ALB122

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 to administration and avoidance provisions; introduction to business taxes which are not applied to income.

Course: BS50

Prerequisite: ALB132

Credit Points: 12 Contact Hours: 3 per week

**■ ALN101 ADVANCED 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; the professional responsibilities of tax advisers.

Course: BS70, BS87

Credit Points: 12 Contact Hours: 3 per week

**■ ALN102 ADVANCED TAXATION**

Analysis of specific and complex issues arising from the operation of the Income Tax Assessment Act and related legislation. The issues are drawn from the following general areas:- Framework of the Australian taxation system and the interpretation of

taxation legislation; Income and deductions; Tax accounting; and Taxation of business entities.

Courses: BS70, BS87

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 and how it 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.

Courses: BS73, BS81

Credit Points: 12 Contact Hours: 3 per week

**■ ALN104 COMMERCIAL LAW HONOURS**

The law, policy and practice of financial disclosure; students have 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.

Courses: BS60, BS87

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, the training guarantee levy and the superannuation guarantee charge.

Courses: BS70, BS87

Credit Points: 12 Contact Hours: 3 per week

**■ ALN106 INTERNATIONAL TAXATION**

Application of Australian income tax law and practice to situations and transactions with an international element; root principles of jurisdiction, residence and source; substantive taxing provisions governing residents and non-residents; tax planning arrangements and applicable anti-avoidance legislation.

Courses: BS70, BS87

Credit Points: 12 Contact Hours: 3 per week

**■ ALN107 LIQUIDATIONS & RECEIVERSHIP**

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; actions against company officers.

Courses: BS70, BS87

Credit Points: 12 Contact Hours: 3 per week

**■ ALN109 SPECIAL TOPIC - COMMERCIAL LAW**

Examination of issues in business law, company law and taxation areas. In particular, company takeovers, issues of management law, disclosure of information

and the new conceptual framework for accounting and professional liability.

Course: BS87

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. The current reform agenda is critically assessed.

Courses: BS60, BS70, BS87

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.

Courses: BS70, BS87

Credit Points: 12 Contact Hours: 3 per week

#### ■ ALN301 TAXATION 1 (PY)

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.

Courses: BS70, BS87

Credit Points: 12 Contact Hours: 3 per week

#### ■ ALN302 TAXATION 2 (PY)

A study program for candidates enrolled in the advanced taxation module of the Institute of Chartered Accountants Professional Year. Topics prescribed by the Institute are covered in sufficient depth to meet the requirements as specified in the module.

Courses: BS70, BS87

Credit Points: 12 Contact Hours: 3 per week

#### ■ ALN304 COMPANY SECRETARIAL PRACTICE

The legal and procedural requirements of company secretarial practice; secretaries of public companies have a wide range of legal requirements imposed upon them or imposed upon the company but discharged by the secretary; examines the following: the law and practice of keeping records and registers; convening and conduct of meetings; lodgement of statutory data; advising the board on statutory requirements; dealing with members' rights; and the statutory and common law liability of company secretaries.

Course: BS70

Prerequisite: ALB122

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.

Course: BS74

Credit Points: 12 Contact Hours: 3 per week

#### ■ ALP102 AUSTRALIAN INDUSTRIAL LAW

An introduction to industrial law; detailed study of law relating to trade unions and employer organisations; current developments in industrial law.

Course: BS74

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.

Course: BS10

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.

Course: BS10

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.

Course: BS10

Credit Points: 12 Contact Hours: 3 per week

#### ■ ARB102 HISTORY OF THE BUILT ENVIRONMENT 1

See PLB102 History of the Built Environment 1.

Course: BN30

Credit Points: 6 Contact Hours: 3 per week

#### ■ ARB132 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.

Course: AR41

Credit Points: 4 Contact Hours: 2 per week

#### ■ ARB140 INTRODUCTORY DESIGN 1

Mechanical drawing techniques; topics 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; principles of scale drawing.

Course: BN30

Credit Points: 12 Contact Hours: 8 per week

#### ■ ARB141 THE HUMAN ENVIRONMENT 1

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; ergonomics; applications of anthropometrics and ergonomics to design.

Course: BN30

Credit Points: 4 Contact Hours: 2 per week

**■ ARB142 TECHNOLOGY 1**

See ARB195.

Courses: AR41, BN30

Credit Points: 8 Contact Hours: 4 per week

**■ ARB151 INTRODUCTION TO TECHNOLOGY**

Applied technologies and how they relate to industrial products and systems. 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.

Course: BN30

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.

Course: BN30

Credit Points: 8 Co-requisite: ARB140 Contact Hours: 3 per week

**■ ARB171 INTRODUCTION TO INTERIOR TECHNOLOGY 1**

Basic mechanics and the physical, thermal, and optical properties of materials; physics of light, optics, photometry, laser, holograms; thermal properties of materials and components; solar energy and its application; physics of sound, hearing, and environmental acoustics; electricity and electrical circuits.

Course: BN30

Credit Points: 6 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.

Courses: BN30, AR41

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: two-dimensional and three-dimensional objects; personal working and living space.

Course: AR41

Credit Points: 8 Contact Hours: 5 per week

**■ ARB194 DESIGN 2**

See ARB193.

Course: AR41

Credit Points: 14 Contact Hours: 7 per week

**■ ARB195 TECHNOLOGY 1**

Materials: manufacture, supply, storage and application in buildings of timber and wood products, paints and clay products, concrete, ferrous and non-ferrous metals, plastics. Construction: simple, single-storey buildings, footings and floors, wall and roof framing, load bearing masonry, roofing, cladding.

Course: AR41

Credit Points: 4 Contact Hours: 2.5 per week

**■ ARB196 TECHNOLOGY 2**

See ARB195.

Course: AR41

Credit Points: 4 Contact Hours: 2 per week

**■ ARB197 HISTORY OF ARCHITECTURE & ART 1**

The development of the artificial environment and its relationship to ideas, technology, architecture and the fine arts from the earliest times to the present.

Course: AR41

Credit Points: 2 Contact Hours: 1 per week

**■ ARB198 HISTORY OF ARCHITECTURE & ART 2**

See ARB197.

Course: AR41

Credit Points: 2 Contact Hours: 1 per week

**■ ARB200 INTRODUCTORY DESIGN 2**

Continuation of ARB140 Introductory Design 1; studio work involving three-dimensional design tasks of a variety of scales; workshop and field teaching; techniques of oral and written presentation of schemes to audience; report writing; use of English as applicable to the professional needs.

Course: BN30

Credit Points: 20 Prerequisite: ARB140 Contact Hours: 10 per week

**■ ARB201 THE HUMAN ENVIRONMENT 2**

See PLB201.

Course: BN30

Credit Points: 6 Contact Hours: 2 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 and industrial design.

Course: BN30

Credit Points: 8 Contact Hours: 3 per week

**■ ARB242 TECHNOLOGY 2**

See ARB195.

Course: BN30

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 in product design.

Course: BN30

Credit Points: 4 Contact Hours: 2 per week

**■ ARB271 INTRODUCTION TO INTERIOR TECHNOLOGY 2**

Structural systems of domestic building construction; chemical characteristics of materials and finishes including timber/wood products, cement and concrete, ceramics, glass, polymers and metals; manufacturing process and performance. Measurement and recording of building spaces. Photography and photogrammetry. Application of recorded information.

Course: BN30

Co-requisite: ARB200 (Interior Design only)

Credit Points: 14 Contact Hours: 5 per week

### ■ ARB288 DESIGN SCIENCE 2

Basic design for hot humid climates, principles governing air flow through and around buildings and space. Natural ventilation; 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.

**Courses:** BN30, AR41

**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 in the conceptual stages of design, laboratory tests and computer evaluations of 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.

**Courses:** BN30, AR41

**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.

**Courses:** BN30, AR41

**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, inter-cultural and intracultural differences. Application via examination and analysis of an urban environment with respect to its sociocultural function.

**Course:** AR41

**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.

**Course:** AR41

**Credit Points:** 4 **Contact Hours:** 2 per week

### ■ ARB293 DESIGN 3

Theory: scope of design; Reitman's State Transformation model, problem-solving methods; precedence diagrams; testing; general design heuristic; the art of design. Planning objectives and techniques, privacy and convenience, intelligibility, forms and order, history of planning techniques, the vertical dimension, safety, external constraints. 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; three-dimensional presentation and modelling.

**Course:** AR41

**Credit Points:** 10 **Contact Hours:** 5 per week

### ■ ARB294 DESIGN 4

See ARB293.

**Course:** AR41

**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.

**Course:** AR41

**Credit Points:** 4 **Contact Hours:** 2 per week

### ■ ARB296 BUILDING CONSTRUCTION 2

See ARB295.

**Course:** AR41

**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.

**Courses:** BN30, AR41

**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; safety, comfort, construction, content, form and order.

**Course:** BN30

**Credit Points:** 18 **Prerequisite:** PLB200 **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.

**Course:** BN30

**Credit Points:** 14 **Contact Hours:** 5 per week

### ■ ARB343 VISUAL COMMUNICATION FOR ARCHITECTS 1

Introduction to presenting architectural works using manual skills and computer techniques.

**Course:** BN30

**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.

**Course:** BN30

**Credit Points:** 18 **Prerequisite:** PLB200, ARB200 **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.

Course: BN30 Prerequisite: ARB251  
Credit Points: 4 Contact Hours: 2 per week

### ■ ARB352 VISUAL COMMUNICATION FOR INDUSTRIAL DESIGNERS 1

The development of visual communication techniques; introduction to rendering techniques and the use of different media including computer graphics.

Course: BN30  
Credit Points: 4 Contact Hours: 2 per week

### ■ ARB353 MANUFACTURING TECHNOLOGY 1

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 in studio exercises. Introduction of computers (CAD).

Course: BN30  
Credit Points: 12 Contact Hours: 6 per week

### ■ ARB354 CAD FOR INDUSTRIAL DESIGNERS 1

PC computer operation, DOS, file and disk management; the use of graphics and CAD by industrial designers. Applications in design, presentation graphics and engineering drawings, introduction to three-dimensional CAD.

Course: BN30  
Credit Points: 4 Contact Hours: 2 per week

### ■ ARB360 INTERIOR DESIGN 1

Introduction to a systematic design process related to interior design problems. Theory and studio exercises using a range of interior design problems.

Course: BN30  
Prerequisite: PLB200 Co-requisite: ARB361  
Credit Points: 18 Contact Hours: 8 per week

### ■ ARB361 INTERIOR TECHNOLOGY 1

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; issues such as the evolution of building materials and the evaluation of material performance and suitability.

Course: BN30  
Prerequisite: ARB261 Co-requisite: ARB360  
Credit Points: 16 Contact Hours: 6 per week

### ■ ARB362 FURNITURE & FITTINGS 1

Fabrics and textiles in interior design; wall to wall carpeting; curtains and blinds; upholstery; in each case materials, properties and techniques are discussed; fabrics and textiles in interior design.

Course: BN30  
Credit Points: 4 Contact Hours: 2 per week

### ■ ARB363 VISUAL COMMUNICATION FOR INTERIOR DESIGNERS 1

Visual thinking and drawing and basic rendering skills; rough mock-ups and scale model making.

Course: BN30 Prerequisite: PLB200  
Credit Points: 4 Contact Hours: 2 per week

### ■ ARB388 DESIGN SCIENCE 4

The 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.

Courses: BN30, AR41

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.

Courses: BN30, AR41  
Credit Points: 4 Contact Hours: 2 per week

### ■ ARB391 BUILDING SERVICES 1

Hydraulics: water; gas; plumbing; drainage and sewerage in domestic and low-rise buildings. Fire services; sprinklers; alarms; extinguishers; emergency systems.

Courses: BN30, AR41  
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.

Courses: BN30, AR41  
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.

Course: AR41  
Credit Points: 8 Contact Hours: 4 per week

### ■ ARB394 DESIGN 6

See ARB393.  
Course: AR41  
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.

Course: AR41  
Credit Points: 3 Contact Hours: 1.5 per week

### ■ ARB396 BUILDING CONSTRUCTION 4

See ARB395.  
Course: AR41  
Credit Points: 3 Contact Hours: 1.5 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 in-

culcate concerns for safety, comfort, construction, content, form and order.

**Course:** BN30 **Prerequisite:** ARB340  
**Credit Points:** 16 **Contact Hours:** 6 per week

#### ■ ARB441 BUILDING CONSTRUCTION 2

Case studies 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.

**Course:** BN30 **Prerequisite:** ARB341  
**Credit Points:** 15 **Contact Hours:** 5 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.

**Course:** BN30 **Prerequisite:** ARB341  
**Credit Points:** 4 **Contact Hours:** 2 per week

#### ■ ARB444 ENVIRONMENTAL IMPACTS

Environmental impacts related to development, production and use of consumer products, materials and processes, and environmental criteria for future product development.

**Course:** BN30 **Prerequisite:** ARB341  
**Credit Points:** 2 **Contact Hours:** 1 per week

#### ■ ARB450 INDUSTRIAL DESIGN 2

Design methodologies; process; creativity and product innovation; studio exercises are aimed at different product ranges. The complexity of the project increases according to the semester level.

**Course:** BN30 **Prerequisite:** ARB350  
**Credit Points:** 20 **Contact Hours:** 6 per week

#### ■ ARB452 VISUAL COMMUNICATION FOR INDUSTRIAL DESIGNERS 2

The structure of presentation layouts; product graphics, including the use of computer graphics; photography; introduction to three-dimensional presentation: model making techniques.

**Course:** BN30 **Prerequisite:** ARB352  
**Credit Points:** 4 **Contact Hours:** 2 per week

#### ■ ARB453 MANUFACTURING TECHNOLOGY 2

Application of engineering mechanisms to products or systems; the performances of mechanical, electrical, hydraulic and pneumatic mechanisms in relation to particular functions; introduction to electronics; design problems in studio using CAD.

**Course:** BN30 **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 two-dimensional engineering drawings and introduction to three-dimensional CAD using AUTOCAD. Shading of design evaluation drawing using paintbrush.

**Course:** BN30 **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 technologies and philosophies. Studio exercises on problems with specific parameters.

**Course:** BN30

**Prerequisite:** ARB360 **Co-requisite:** ARB461  
**Credit Points:** 16 **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.

**Course:** BN30 **Prerequisite:** ARB361 **Co-requisite:** ARB460  
**Credit Points:** 14 **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.

**Course:** BN30 **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.

**Course:** BN30 **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.

**Course:** BN30 **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.

**Course:** AR41 **Prerequisite:** ARB361  
**Credit Points:** 4 **Contact Hours:** 1 per week

#### ■ ARB493 DESIGN 7

Theory: Masters of the twentieth century in Europe and USA; their architectural styles, design philosophies and influence; architects in Australia and their influence on Australasian architecture. Projects: brief, design, construction, services and landscape; a series of architectural projects of medium to high-rise construction; emphasis on workability and compliance with codes, by-laws and regulations.

**Course:** AR41 **Prerequisite:** ARB361  
**Credit Points:** 20 **Contact Hours:** 5 per week

#### ■ ARB495 PROFESSIONAL STUDIES 1

Specifications; estimates; cost planning and control; codes; standards; building legislation; computing.

**Course:** AR41 **Prerequisite:** ARB361  
**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.

Course: AR41

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.

Course: BN30

Prerequisite: ARB440

Credit Points: 20 Contact Hours: 7 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.

Course: BN30

Prerequisite: ARB441

Credit Points: 15 Contact Hours: 5.5 per week

### ■ ARB544 LANDSCAPE ARCHITECTURE IN THE BUILT ENVIRONMENT

Principles and development of landscape architecture, application in architectural design, effect in the conservation and enhancement of the environment, landscape architect's role in architectural practice.

Courses: BN30, AR41

Credit Points: 2 Contact Hours: 1 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.

Course: BN30

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, and the application of computer graphics to these tasks.

Course: BN30

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 in studio design projects using CAD.

Course: BN30

Prerequisite: ARB453

Credit Points: 6 Contact Hours: 3 per week

### ■ ARB554 CAD FOR INDUSTRIAL DESIGNERS 3

Development of wire frame and shaded three-dimensional evaluation presentation, introduction to animation; advanced two-dimensional engineering drawing; evaluation of a product's features and

characteristics; refinement through three-dimensional studies, in wire frame and shaded versions.

Course: BN30

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.

Course: BN30

Credit Points: 4 Contact Hours: 2 per week

### ■ ARB560 INTERIOR DESIGN 3

This unit gives the major time allocation to the studio and workshop. Students develop their knowledge of systematic interior design processes and apply knowledge gained in support and co-requisite units.

Course: BN30

Prerequisite: ARB460

Co-requisite: ARB561

Credit Points: 20 Contact Hours: 6 per week

### ■ ARB561 INTERIOR TECHNOLOGY 3

Continuation of ARB461; emphasis on commercial construction systems and the impact of regulations; high-rise buildings, the planning of tennacles, partitioning and furniture systems, shopping centres, theatres, medical clinics, taverns, restaurants.

Course: BN30

Prerequisite: ARB461

Co-requisite: ARB560

Credit Points: 16 Contact Hours: 6 per week

### ■ ARB562 FURNITURE & FITTINGS 3

Principles of ornamental design; decorative metalwork; stained glass; decorative ceramics; plasterwork; carved and inlaid woodwork; lacquer work; printed fabrics and papers; tapestry and embroidery.

Course: BN30

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.

Course: BN30

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.

Course: BN30

Prerequisite: ARB464

Credit Points: 4 Contact Hours: 2 per week

### ■ ARB590 ELECTIVE 1A

Selected architectural topics including history, conservation, design theory, management, finance, economics, architectural science, computing, urban design, and courses where approved.

Course: AR41

Credit Points: 4 Contact Hours: 2 per week

### ■ ARB591 HISTORY OF ARCHITECTURE & ART 4

A global perspective of the development of art and architecture of regional interest with particular emphasis on non-European traditions. Architectural development in 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.

**Course:** AR41

**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.

**Course:** AR41

**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.

**Course:** AR41

**Credit Points:** 16      **Contact Hours:** 4 per week

#### ■ ARB598 ELECTIVE 1B

See ARB590.

**Course:** AR41

**Credit Points:** 4      **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.

**Course:** BN30

**Credit Points:** 20      **Contact Hours:** 7 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.

**Course:** BN30

**Credit Points:** 15      **Contact Hours:** 5.5 per week

#### ■ ARB646 LAW OF THE BUILT ENVIRONMENT

The law as a constraint in the design and construction process. Australian and Queensland acts, 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.

**Courses:** BN30, AR41

**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.

**Course:** BN30

**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 particularly computer graphics; advanced renderings and

their application to product design concepts; professional portfolio organisation.

**Course:** BN30

**Credit Points:** 4      **Contact Hours:** 2 per week

#### ■ ARB653 MANUFACTURING TECHNOLOGY 4

Organisation, planning the technologies required for CIM (Computer-integrated Manufacturing). The impact of CIM on product design solutions. Field studies complement the lecture series. Studio exercises will utilise computer applications.

**Course:** BN30

**Credit Points:** 14      **Contact Hours:** 5 per week

#### ■ ARB654 CAD FOR INDUSTRIAL DESIGNERS 4

Advanced three-dimensional animation techniques; application of project management and evaluation techniques to design projects; two-dimensional and three-dimensional CAD used for the development of design concepts through to engineering drawings.

**Course:** BN30

**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.

**Course:** BN30

**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.

**Course:** BN30

**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: quantitative and qualitative assessment approaches; the understanding of furniture design and its integration into interiors.

**Course:** BN30

**Credit Points:** 4      **Contact Hours:** 2 per week

#### ■ ARB663 RESEARCH METHODS

An overview of research methodology; differences between various research methods and products.

**Course:** BN30

**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; 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.

**Course:** AR41

**Credit Points:** 16      **Contact Hours:** 5 per week

#### ■ ARB695 PROFESSIONAL STUDIES 3

Alternative methods of building procurement; management of all phases of the building project. The

Architect Act 1962 and amendments; Board of Architects Queensland Practice Examination.

Course: AR41

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.

Course: AR41

Credit Points: Semester 1: 4 Semester 2: 20

Contact Hours: Semester 1: 2 per week, Semester 2: 5 per week

#### ■ ARP151 ARCHITECTURAL PRACTICE

Pre-design activities, brief formulation and evaluation; development and building approvals; programming and staffing; the documentation process; office systems; building procurement systems; contract administration; quality control; post occupancy evaluation; risk management.

Course: AR80

Credit Points: 12 Contact Hours: 2 per week

#### ■ ARP152 ARCHITECTURAL ADMINISTRATION

Architectural practice as a small business; setting up and managing a practice; fees; personnel administration; modes of practice; the business plan; marketing architectural services; special concerns of the sole practitioner; the architect as entrepreneur; survival strategies for the future of architectural practice.

Course: AR80

Credit Points: 12 Contact Hours: 2 per week

#### ■ ARP153 LEGAL STUDIES IN ARCHITECTURE

Contract and tort: architect's liability; building legislation update; trades practices act; intellectual property law; heritage and environment law; subcontractors changes act; workplace health and safety act; bankruptcy; company law; dispute resolution.

Course: AR80

Credit Points: 12 Contact Hours: 2 per week

#### ■ ARP154 ARCHITECTURAL COST PLANNING

Sectors of the property market; financial feasibility studies; project financing; project cost control; life cycle costing; energy audits; maintaining property asset value; investment decision-making; facilities management; forecast for property markets.

Course: AR80

Credit Points: 12 Contact Hours: 2 per week

#### ■ ARP502 ENVIRONMENTAL COMMUNICATIONS

Exploration of contemporary ideas, theories, methods; practical application of research, analysis, evaluation and the synthesis of ideas related to interiors; contemporary issues in user-oriented design; the development of advanced information retrieval skills; main topics in this AIRS program are: using the QUT library and other information services; accessing information through indexes and abstracts; computerised information retrieval; current awareness strategies; organising and evaluating information.

Course: AR62

Credit Points: 18 Contact Hours: 7 per week

#### ■ ARP503 WORKPLACE DESIGN

The issues of environmental communications; the physiological, psychological and sociological aspects of workplace interiors.

Course: AR62

Credit Points: 18 Contact Hours: 6 per week

#### ■ ARP504 PROFESSIONAL PRACTICE & MANAGEMENT FOR INTERIOR DESIGNERS 1

Roles and responsibilities of interior designers in professional practice; job administration, liability, design protection, designer and client relationships; communication management; organisation of project.

Course: AR62

Credit Points: 10 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.

Course: AR62

Credit Points: 6 Contact Hours: 2 per week

#### ■ ARP506 BRIEF DEVELOPMENT

Explores the fundamentals of brief development and its implications for design efficiency and effectiveness; the nature of design; problem definition; brief development - a traditional view; brief development: an evolutionary view; participatory design; decision-making and the organisational structure; setting up the information network; information gathering and recording; developing a client structure; and design process and problem type.

Course: AR62

Credit Points: 8 Contact Hours: 2 per week

#### ■ ARP601 SETTING THE SCENE

Incorporates a series of case studies of significant film and theatre sets; students explore the influence of design on emotive behaviour and interpret the implication of this for interior design of a more conventional kind; use will be made of the current projects in the unit Environmental Communications.

Course: AR62

Credit Points: 12 Contact Hours: 4 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.

Course: AR62

Credit Points: 16 Contact Hours: 6 per week

#### ■ ARP605 BUILDING EVALUATION

Strategies for evaluation of building interior physical characteristics and user responses to utilisation of such areas from technical, sociological and psychological perspectives; students assess existing sites to foster an appreciation of client and user requirements, compilation of strategies and reports, statistical analysis and application of data.

Course: AR62

Credit Points: 8 Contact Hours: 2 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. Typi-

cal case studies are concentrated on the ergonomic evaluation of consumer products.

Course: AR61

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 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.

Course: AR61

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.

Course: AR61

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, management, documentation, concept of evaluation and management action, application of design theory to design management.

Course: AR61

Credit Points: 2 Contact Hours: 1 per week

#### ■ ARP653 PROFESSIONAL PRACTICE

The role and responsibilities of the industrial designer in professional practice; job administration, liability, design protection, designer and client relationships.

Course: AR61

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; the development of industrial design from eighteenth century to the present day; Australian inventions and their impact on product design in Australia.

Course: AR61

Credit Points: 2 Contact Hours: 1 per week

#### ■ ARP672 INDUSTRIAL DESIGN 1

#### ■ ARP673 INDUSTRIAL DESIGN 2

These units consist of studio work in which students design a range of products or systems. The emphasis is on projects generated from local industry and community. The complexity and depth of the design project increases according to the semester level.

Course: AR61

Prerequisite: ARP672

Credit Points: 16 Contact Hours: 6 per week

#### ■ ARP674 INDUSTRIAL DESIGN RESEARCH 1

A topic is selected by a student and approved and supervised by industrial design staff. Examples are: microsurgical equipment design, bushfire safety equipment, mobile dental clinic in isolated regions and interactive display in psychological testing.

Course: AR61

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.

Course: AR61

Prerequisites: ARP672, ARP674

Credit Points: 20 Contact Hours: 8 per week

#### ■ ARP676 ADVANCED CAD FOR INDUSTRIAL DESIGNERS 1

CAD in the design process. Two-dimensional and three-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.

Course: AR61

Credit Points: 4 Contact Hours: 2 per week

#### ■ ARP677 ADVANCED CAD FOR INDUSTRIAL DESIGNERS 2

CAD/CAM in the design, analysis and manufacturing process. Three-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.

Course: AR61

Credit Points: 4 Contact Hours: 2 per week

#### ■ ATN001 RESEARCH PROJECT – 1 UNIT

Repeatable unit indicating the rate at which the Research Project within AT22 is being undertaken.

Course: AT22

Credit Points: 12

#### ■ ATN002 RESEARCH PROJECT – 2 UNITS

See ATN001.

Course: AT22

Credit Points: 24

#### ■ ATN003 RESEARCH PROJECT – 3 UNITS

See ATN001.

Course: AT22

Credit Points: 36

#### ■ ATN004 RESEARCH PROJECT – 4 UNITS

See ATN001.

Course: AT22

Credit Points: 48

#### ■ AYB100 ACCOUNTING FOR MANAGERS

Accounting in the business world; fundamental accounting recording systems, preparation of financial statements for servicing and merchandising firms, 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.

Courses: AA21, BS50, ED23, IF52, IF53, IS43, NS48

Incompatible with: AYB104

Credit Points: 12 Contact Hours: 3 per week

#### ■ AYB101 COMPUTERISED ACCOUNTING SYSTEMS

Management information systems and accounting systems; database and files; systems development life cycle; 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 and ACCPAC, database software such as DBASE IV and spreadsheet software such as LOTUS 1-2-3; internal control in computer systems.

**Courses:** BS50, ED50, IF31 **Prerequisite:** ISB892  
**Incompatible with:** FNB117

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ AYB102 ACCOUNTING DISCLOSURE & AUDITING

This unit provides students with an extended study in company accounting and audit. Topics include: tax effect accounting; consolidations; liquidations; acquisition of assets; company disclosure; 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.

**Course:** ED50 **Prerequisite:** AYB111

**Credit Points:** 12 **Contact Hours:** 3 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; government financial reporting; external, internal and efficiency auditing; accounting for government business enterprises.

**Course:** BS50 **Prerequisite:** AYB110

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ AYB104 PRINCIPLES OF ACCOUNTING

Accounting in business; 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; planning, control and managerial decision-making.

**Courses:** IT32, NS48, PU48

**Incompatible with:** AYB100

**Credit Points:** 9 **Contact Hours:** 3 per week

#### ■ AYB105 PRINCIPLES OF ACCOUNTING

Accounting in the business world; recording and classifying transactions; end of period adjustments; preparation of financial statements for service and merchandising firms; preparation of a worksheet to assist in preparing financial statements; internal control of cash; accounting for merchandising operations, accounts receivable and bad debts, inventories and non-current assets; the use of special journals; preparation of cash flow statements for sole trader; analysis and interpretation of financial statements.

**Course:** PU48 **Incompatible with:** AYB100

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ AYB110 ACCOUNTING

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.

**Courses:** BS50, ED50, IF31, NS48, PU48

**Incompatible with:** AYB100, AYB104

**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, cashflow; statements and analysis and interpretation of financial statements; an introduction to the conceptual framework.

**Courses:** BS50, ED50, IF31, NS48

**Prerequisite:** AYB110

**Credit Points:** 12 **Contact Hours:** 4 per week

#### ■ AYB112 COMPANY ACCOUNTING

Accounting for company income tax (tax effect accounting); acquisition of assets; consolidated financial statements; equity accounting and disclosure in company financial statements.

**Courses:** BS50, ED50, IF31

**Prerequisite:** AYB111 or ALN103

**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.

**Courses:** BS50, IF31

**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.

**Courses:** BS50, ED50, IF31 **Prerequisite:** AYB112

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ AYB211 AUDITING & PROFESSIONAL PRACTICE

The audit approach; planning an audit; verification of the balance sheet and profit and loss statement, trade debtors, inventory, non-current assets, cash, investments, taxation, capital and retained profits; audit sampling theory techniques and applications; EDP auditing; issues of current professional interest.

**Course:** BS50

**Prerequisite:** AYB210

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ AYB212 COMPUTER SECURITY & AUDIT

Impact of EDP on auditing, general EDP controls, EDP application controls, generalised audit software (GAS), computer-assisted audit techniques, special EDP environments, fraud and privacy.

**Course:** BS50

**Prerequisite:** AYB210

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ AYB213 ACCOUNTING 2

Tax effect accounting; liquidations; accounting of assets, consolidations; financial mathematics; project evaluation; short term asset management; sources of short and long term finance.

**Course:** ED26

**Prerequisite:** AYB111

**Credit Points:** 12 **Contact Hours:** 4 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.

**Course:** ED26

**Credit Points:** 12      **Contact Hours:** 3 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.

**Courses:** LW31, LX31

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ **AYN101 ACCOUNTING PRINCIPLES**

The nature and function of accounting information and its underlying concepts. Topics include: the accounting equation; elements of financial statements; recording and classifying accounting transactions; preparation of financial statements; external reporting; analysis and interpretation of financial information; managerial accounting including simple decision models and the preparation of budgets.

**Courses:** BS73, BS81

**Incompatible with:** AYN112

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ **AYN102 ACCOUNTING RESEARCH**

The research methodology used in accounting and related disciplines; the use of certain research techniques to assist students in their research dissertation and preparation of research papers; 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 unit is a prerequisite for BSN100 Dissertation and should be attempted immediately prior to enrolment in BSN100 Dissertation.

**Courses:** BS60, BS70, BS87

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ **AYN103 ADVANCED COMPANY ACCOUNTING**

Consolidated financial statements; changes in degree of ownership; reverse subsidiaries and reciprocal shareholdings; consolidation and the existence of preference shares; translation and consolidation of foreign currency financial statements; consolidated cash flow statements; accounting for joint ventures, foreign currency transactions; segment reporting; trusts, superannuation funds and insurers.

**Courses:** BS70, BS87

**Incompatible with:** AYN300

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ **AYN104 AUDIT SAMPLING**

Statistical sampling methods 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.

**Courses:** BS87, BS70

**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.

**Course:** BS60, BS70, BS87

**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.

**Courses:** BS87, BS70

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ **AYN109 COMPUTER AUDITING**

The impact of EDP on controls and auditing; general EDP controls; generalised audit software, static and concurrent computer-assisted audit techniques, special EDP environments and computer fraud.

**Courses:** BS87, BS70

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ **AYN111 EXTERNAL REPORTING ISSUES**

Issues in external reporting; 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 research and professional literature to enhance students' understanding of professional problems.

**Courses:** BS87, BS70

**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 cash flows; analysis and interpretation of financial statements.

**Course:** BS81

**Incompatible with:** AYB110, AYB111

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ **AYN113 FINANCIAL ACCOUNTING 2**

Accounting function within a company; accounting for company income tax (tax-effect accounting); liquidation; acquisition of assets including companies; consolidated financial statements, equity accounting; disclosure in company financial statements.

**Courses:** BS81

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ **AYN114 FINANCIAL ACCOUNTING 3**

The evolution of accounting theory; the external financial reporting framework; theories of regulation and the conceptual framework; theory of the firm developed into the contracting cost framework; profits and application of the theory of profits - construction contracts and segment reporting; assets and the application of the theory of assets, intangible assets and the extractive industries; liabilities and the

application of the theory of liabilities - debt defeasance, debt versus equity and leases; further applications of the theory of profits, assets and liabilities - intercorporate investments, joint ventures and foreign currency transactions and translation.

**Course:** BS81 **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.

**Courses:** BS60, BS70, BS87  
**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ AYN117 FINANCIAL REPORTING

Conceptual framework; preparation and presentation of financial statements; accounting for income tax (tax-effect accounting), leases, construction contracts and the extractive industries; goodwill; acquisition and revaluation of assets; equity accounting.

**Courses:** BS70, BS87  
**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ AYN118 INTERNAL AUDITING

The techniques used by the internal or operational auditor; the need for efficiency or value-for-money auditing; performance auditing; the internal auditor in large organisations both public and private.

**Courses:** BS87, BS70  
**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ AYN119 INTERNATIONAL ACCOUNTING

Issues related to international accounting and the international accounting standard setting process. 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.

**Courses:** BS87, BS70  
**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ AYN120 AUDITING (MBA)

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.

**Course:** BS81 **Prerequisite:** AYN113  
**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ AYN300 ACCOUNTING 1 (PY)

See AYN103.  
**Course:** BS70, BS87 **Prerequisite:** AYN117  
**Incompatible with:** AYN103  
**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.

**Courses:** BS70, BS87 **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.

**Courses:** BS70, BS87  
**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ BNB001 LEARNING AT UNIVERSITY

The importance of goal setting and motivation, differences between High School and University study, the student/lecturer relationship, approach to learning questionnaire; study management, clarification of learning goals, benefits of planning to the control of learning; using lectures and pracs to your advantage, networking, concept mapping and flow charts; using textbooks and set notes to boost understanding; active vs passive learning skills and the implications of both; professional writing - pracs, reports, assignments; critical thinking, problem-solving and first year construction management; concentration and memory; learning and stress management; exam preparation, strategies and techniques.

**Courses:** BN30, CE42, CN31, CN33, EE43, EE44, ME45  
**Credit Points:** 2 **Contact Hours:** 1 per week

#### ■ BNB103 GENERAL ELECTIVE UNIT

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.

**Courses:** EE44, ME45  
**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.

**Courses:** CE21, EE22, ME23

**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.

**Courses:** AA21, BS50, ED50, IF31, IF53, IS43, IT20, NS48, PU48, PU49

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ BSB103 BUSINESS COMMUNICATION & APPLICATION SYSTEMS

Nature and development of information systems. Transaction processing and computer applications in business. Management information systems, decision support systems, executive information systems and

expert systems. Security issues. Theory and practice of written communication in a professional context.

**Courses:** IF33, IF53, IS28, IS43, IT20, IT32

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ BSB400 RESEARCH METHODOLOGY

Equips students with a range of ideas and methods allowing them to analyse, evaluate and conduct research in discipline areas related to management; Essential preparation for the thesis. Areas include: science and knowledge – paradigms; analysis and criticism; research design; data collection; data manipulation and interpretation; presentation.

**Courses:** BS62, BS83, BS85

**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.

**Course:** BS87 **Prerequisite:** AYN102

**Credit Points:** Students enrolled in the Masters and Honours program will undertake a 24 credit point Dissertation. Students enrolled in the Graduate Diploma will undertake a 12 credit point dissertation.

#### ■ BSN102 SEMINAR IN COMMUNICATION RESEARCH

Allows advanced students to undertake research in order to develop special expertise in a selected methodology, including specific methods and techniques, appropriate to each student's own research interests. It is designed for advanced study in the methods of interpretive or empirical research, quantitative or qualitative. Students may undertake one or more research projects under the direction of their supervisor. They progressively present their work in a seminar of advanced students for review. It can be used to advance a thesis or project.

**Course:** BS84

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ BSN103 SEMINAR IN COMMUNICATION READINGS

A series of seminars comprising postgraduate students, teaching staff and visiting scholars and practitioners for the purpose of sharing knowledge of human communication across the range of perspectives, theories, research and applications. It allows students to pursue, review and compare their own personal interests and readings.

**Course:** BS84

**Credit Points:** 12

#### ■ BSN104 INDIVIDUAL RESEARCH

Permits students to conduct independent research in an area not covered by a substantive unit in their program; an opportunity to study an area of personal interest or use it as a pilot study for a thesis or project.

**Course:** BS84

**Credit Points:** 12

#### ■ BSN105 RESEARCH COLLOQUIUM

Consolidates research knowledge and skills, refines the research strategy for the student's project and assists with the planning and writing of the thesis; further material on research methods and procedures as necessary for students to undertake their research.

**Course:** BS84

**Prerequisite:** BSN104 **Co-requisite:** IFN001

**Credit Points:** 8 **Contact Hours:** 2 per week

#### ■ BSN106 SPECIAL TOPIC - COMMUNICATION

Follows on from BSN102 and BSN104; aimed at completing a further stage of the thesis.

**Course:** BS84 **Prerequisite:** BSN102 & BSN104

**Credit Points:** 12

#### ■ BSN114 DISSERTATION

Taken in conjunction with, or subsequent to, a unit in the CMN800-899 series; normally a 10,000 word investigation of a communication concept using secondary research relevant to that unit.

**Course:** BS84

**Prerequisite:** CON100

**Credit Points:** 24

#### ■ BSN115 DISSERTATION

See BSN114.

**Course:** BS84

**Prerequisite:** CON100

**Credit Points:** 24

#### ■ BSN116 THESIS

A thesis is a scholarly work providing 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. Students will complete a literature review and thesis proposal before proceeding to the thesis proper.

**Course:** BS84

**Credit Points:** 48

#### ■ BSN129 APPLIED RESEARCH PROJECT

Students develop an ability to plan and execute a significant piece of applied research, or to conduct an independent study of an applied area, with a minimum of supervision. Students will be individually assigned to a project supervisor and should contract with them on the nature of the project to be undertaken and the methodology to be used. The final project report, of a maximum of 15,000 words, must demonstrate an ability to identify and research a significant managerial problem area. A comprehensive literature review of the area, and an appreciation of other relevant studies in the area must be included.

**Course:** BS81

**Credit Points:** 12

**Contact Hours:** 3 per week

#### ■ BSN141 APPLIED RESEARCH METHODS

Applied Research Methods provides a detailed review of data collection and analysis techniques, relevant to research in accounting, finance and related disciplines. The subject will teach students how to develop applied research proposals. Students will develop a practical understanding of survey, interview, case study and associated research techniques. Students will be expected to undertake advanced information retrieval in order to gather extensive detailed information relating to a particular research topic. Research findings must be presented in both report form and through verbal presentation.

**Course:** BS87

**Credit Points:** 12

**Contact Hours:** 3 per week

#### ■ BSN142 RESEARCH PROJECT

A major piece of applied research. The research project provides the opportunity to apply and reinforce the education and knowledge gained from the course to resolving a complex business problem in accounting, finance, and accounting legal studies of related discipline by research report, case study, or application of technology. The final project must demonstrate an ability to identify and research a com-



plex business problem in accounting, finance and accounting legal studies or related discipline.

Course: BS87

Credit Points: 24 Contact Hours: 3 per week

### ■ BSN143 IMPLEMENTING & MAINTAINING TOTAL QUALITY MANAGEMENT

The management issues that need to be addressed in implementing a sustainable structure for TQM. These include the definition of an appropriate structure based on organisational strengths and weaknesses, and the development of a strategy for implementation.

Course: BS86

Credit Points: 12 Contact Hours: 3 per week

### ■ BSN144 THESIS

This unit is a culmination of a research degree in that students apply theory and research material to explore in some depth an applied or theoretical topic in their chosen field. Students develop a research topic, collect information about that topic from primary and/or secondary sources, evaluate the evidence and arguments, and present the results of that critical assessment in an organised and logical form. The thesis will consist of a substantial written report. Ordinarily this would involve a report of up to 60,000 words of examinable material for a 144 credit point thesis. Honours theses of 48 credit points could be expected to contain about 20,000 words. The thesis will be assessed by two examiners, one of whom must be external to QUT. Students select a supervisor to assist them with the development and implementation of their research topic. They will negotiate a learning contract which will stipulate among other things the frequency and duration of meetings with the supervisor, and the timetable for submission of interim and final reports. Planning for the thesis should begin as early as possible, allowing lead-up units to be keyed to the thesis as appropriate.

Courses: BS62, BS80, BS83

Prerequisites: BSB400 and 2 of 3 major units

Credit Points: Students enrol in sequential thesis units commencing with BSN144, until they have completed the requisite number of thesis credit points. Progress is assessed at the end of each semester. Note that each thesis is assessed on one major report submitted at the completion of all necessary thesis units.

### ■ BSN149 PROJECT

The project will provide students with practical experience in integrating the material studied in their course and applying it in an organisation. The projects will involve evaluation of an organisation's approach to quality and the extent and effectiveness of its deployment, together with a strategy for overcoming any weaknesses identified. The student will receive broad guidance from a supervisor, but will retain overall responsibility for development of the project. The project will involve presentation of at least two seminars reporting progress and a detailed report of approximately 12,000 words.

Course: BS86

Credit Points: 12 Contact Hours: 3 per week

### ■ BSN150 PROJECT

See BSN149.

Course: BS86

Credit Points: 12 Contact Hours: 3 per week

### ■ BSN803 THESIS 1

The first stage in the culmination of the Masters degree. Students begin to apply the theory and research material covered in earlier units, to a chosen

thesis topic, in consultation with an approved supervisor. Students are expected to complete a thesis proposal and give a seminar presentation.

Course: BS84

Credit Points: 12

### ■ BSN804 THESIS 2

The second stage in the preparation of the thesis. Students will consolidate the preparatory work begun in Thesis 1 by preparing drafts of two chapters of their dissertation under structured supervision.

Course: BS84

Credit Points: 12

### ■ BSN805 THESIS 3

Completes the sequence of thesis units. Students complete the drafting of their thesis and revise to a final copy for submission under supervision. A thesis is a scholarly work combining an appropriate theory or perspective and appropriate research methodology to examine a significant problem or issue. Minimum length will be 30,000 words.

Course: BS84

Credit Points: 24 Contact Hours: 3 per week

### ■ BSN999 IMPLEMENTING & SUSTAINING TOTAL QUALITY MANAGEMENT

See BSN143.

Course: BS86

Credit Points: 12 Contact Hours: 3 per week

### ■ BSP100 DISSERTATION

The culmination of the Honours degree in that students apply the theory and research material covered in earlier units 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.

Courses: BS61, BS84

Credit Points: 48

### ■ BSP101 ADVANCED COMMUNICATION SEMINAR

Designed to prepare students for writing their thesis; group instruction in techniques of thesis writing and what is involved in preparing a literature review and a thesis proposal. Students choose a topic, have it approved and choose a supervisor, under whose guidance they will undertake a literature review.

Course: BS84

Credit Points: 12 Contact Hours: 3 per week

### ■ BSP102 COMMUNICATION SEMINAR

Designed to prepare students for writing their dissertation. See BSP101.

Courses: BS61, BS84

Credit Points: 12 Contact Hours: 3 per week

### ■ BSP104 DISSERTATION PART 1

This unit is the first in the culmination of the Honours degree. Students begin to apply the theory and research material covered in earlier units, to a chosen dissertation topic in consultation with an approved supervisor. Students are expected to complete a dissertation proposal and give a seminar presentation.

Courses: BS61, BS84

Credit Points: 12

### ■ BSP105 DISSERTATION PART 2

This unit is the second stage in the presentation of the Honours dissertation. Students will consolidate the preparatory work begun in Dissertation 1 by preparing drafts of two chapters under structured supervision.

Courses: BS61, BS84

Credit Points: 12

### ■ BSP106 DISSERTATION PART 3

Dissertation Part 3 completes the sequence of dissertation units. Students complete the drafting of their

dissertation and revise to a final copy for submission under supervision. Length will be 12,000 to 15,000.  
**Courses:** BS61, BS84 **Credit Points:** 24

#### ■ CEB001 ENGINEERING MECHANICS A

Introduction to statics, forces, moments and couples; resolution and resultant of forces acting on a particle or rigid body; equilibrium of particle or rigid body under forces and/or moments; analytical and graphical methods for plane truss analysis; shear force and bending moment in beams; the properties of sections.

**Course:** CE42 **Credit Points:** 7

**Contact Hours:** 21 per week over 4 weeks

#### ■ CEB002 ENGINEERING MECHANICS B

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.

**Course:** CE42 **Co-requisites:** CEB184 **Credit Points:** 7

**Contact Hours:** 21 per week over 4 weeks

#### ■ CEB102 CIVIL ENGINEERING 1

An introduction to the profession of civil engineering, its scope and variety, and its many branches.

**Courses:** EE44, CE42, ME45, EE43 **Credit Points:** 2 **Contact Hours:** 1 per week

#### ■ CEB184 ENGINEERING MECHANICS 1

See CEB001.

**Courses:** CE42, IF53, EE43, EE44, ME45 **Credit Points:** 7 **Contact Hours:** 3 per week

#### ■ CEB185 ENGINEERING MECHANICS 2

See CEB002.

**Courses:** ME45, IF53, CE42, EE43 **Co-requisites:** CEB184 **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*.

**Course:** CE42 **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.

**Course:** CE42 **Prerequisite:** CEB185 **Co-requisites:** CEB281, CEB282 **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. Deflections in concrete structures and the analysis of long and short columns in uniaxial bending.

**Course:** CE42 **Prerequisite:** CEB185 **Co-requisites:** CEB281, CEB282 **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.

**Course:** CE42

**Prerequisites:** CSB191, MAB187, MAB188

**Co-requisites:** CEB253, 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.

**Course:** CE42 **Credit Points:** 7 **Contact Hours:** 3 per week

#### ■ CEB240 SOIL MECHANICS 1

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.

**Course:** CE42 **Prerequisite:** CEB185 **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 and design of shallow foundations; computer applications in seepage and consolidation.

**Course:** CE42 **Prerequisite:** CEB240 **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.

**Course:** CE42 **Prerequisite:** CEB185 **Co-requisites:** MAB493, CEB282 **Credit Points:** 6 **Contact Hours:** 3 per week

#### ■ CEB260 FLUID MECHANICS

Fluid mechanics; 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.

**Course:** CE42 **Prerequisites:** CEB185, MAB187, MAB188 **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.

**Course:** CE42 **Prerequisite:** CEB185 **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.

**Course:** CE42 **Prerequisites:** CEB184, CEB185 **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, clad-

ding materials, polymers, corrosion of materials and protective measures. Selection of materials. Role of quality control in engineering units.

**Course:** CE42    **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*.

**Course:** CE42    **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; students prepare design calculations and sketches with the help of design aids and computer software; problem solving skills using projects.

**Course:** CE42

**Prerequisites:** CEB201, CEB202, CEB220, CEB240, CEB253

**Co-requisites:** CEB231, CEB241, CEB312, CEB354  
**Credit Points:** 16    **Contact Hours:** 4 per week

### ■ CEB305 CONSTRUCTION PLANNING & ECONOMICS 1

Manual and computer based methods for the planning and programming of projects. The principles of economic and financial analysis pertaining to the planning and execution of engineering projects.

**Course:** CE42    **Prerequisite:** CEB307

**Credit Points:** 6    **Contact Hours:** 3 per week

### ■ CEB306 CONCRETE STRUCTURES 2

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.

**Course:** CE42    **Prerequisite:** CEB202

**Credit Points:** 7    **Contact Hours:** 3 per week

### ■ CEB307 CONSTRUCTION PRACTICE

Basic procedures of civil engineering construction; provides a foundation for further construction studies; gives a practical perspective to later theoretical units.

**Course:** CE42    **Prerequisites:** CEB231, CEB281

**Credit Points:** 6    **Contact Hours:** 3 per week

### ■ CEB308 CONSTRUCTION PLANNING & ECONOMICS 2

The basic requirements of effective management and the relevance of team-work within any organisation. Basic understanding of planning, organising, controlling and leading will be developed with an emphasis on personal interaction and team-work.

**Course:** CE42    **Prerequisites:** CEB307

**Credit Points:** 4    **Contact Hours:** 2 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.

**Course:** CE42

**Prerequisites:** SVB306, MAB193, CEB291

**Co-requisites:** MAB493, CEB240

**Credit Points:** 6    **Contact Hours:** 3 per week

### ■ CEB313 TRAFFIC ENGINEERING

Traffic theory: traffic behaviour, models; traffic management analysis: unsignalised and signalised intersections, street lighting, signs, markings, barriers, parking. Traffic studies and transport planning.

**Course:** CE42

**Prerequisite:** MAB493    **Co-requisite:** CEB312

**Credit Points:** 6    **Contact Hours:** 3 per week

### ■ CEB341 GEOTECHNICAL ENGINEERING 1

Soil slope stability analysis by limit equilibrium, drained and undrained conditions. Rock mechanics: rock properties and shear strength. Application to simple slope stability models. Pile foundations: vertical load soil capacity and settlement. Site investigation and in situ determination of soil properties.

**Course:** CE42    **Prerequisites:** CEB241

**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.

**Course:** CE42    **Prerequisites:** CEB253, 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.

**Course:** CE42    **Prerequisite:** CEB281

**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.

**Courses:** AR41 and BN30

**Credit Points:** 2    **Contact Hours:** 1 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.

**Course:** CE42

**Prerequisite:** CEB260    **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.

**Course:** CE42

**Prerequisite:** CEB260    **Co-requisite:** CEB360

**Credit Points:** 6    **Contact Hours:** 3 per week

### ■ CEB364 ENGINEERING SCIENCE 2

Hydraulic engineering for surveyors. Fluids and fluid flow in pipes and channels. Flow measurement. Hydraulic models. Pumps and pump characteristics.

**Courses:** CE42, SV34    **Prerequisite:** MAB199

**Credit Points:** 6    **Contact Hours:** 3 per week

### ■ CEB370 PUBLIC HEALTH ENGINEERING 1

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.

Course: CE42

Prerequisite: CHB346

Credit Points: 6

Contact Hours: 3 per week

### ■ CEB375 ENVIRONMENTAL SCIENCE & TECHNOLOGY

An introduction to the basic principles of ecology and natural systems. To give an appreciation of the adverse consequences of various types of pollution.

Course: CE42

Prerequisites: CHB346

Credit Points: 7

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*.

Course: CE42

Contact Hours: 5 weeks

### ■ CEB393 ENGINEERING INVESTIGATION & REPORTING I

The appropriate techniques of investigation and reporting on civil engineering processes.

Course: CE42

Prerequisite: COB163

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.

Course: CE42

Prerequisites: CEB361, CEB305, CEB313

Co-requisites: CEB341, CEB470

Credit Points: 8

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. Preparation in job applications and interview techniques.

Course: CE42

Prerequisite: CSB191

Co-requisite: CEB305

Credit Points: 7

Contact Hours: 2 per week

### ■ CEB404 FIELD TRIP

This unit 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 units.

Course: CE42

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, ie. municipal civil/structural projects. Field visits are required. More general problem solving skills are developed so graduates can successfully complete projects other than those covered in the course.

Course: CE42

Prerequisites: CEB341, CEB304, CEB231

Co-requisites: CEB460, CEB470

Credit Points: 12

Contact Hours: 3 per week

### ■ CEB406 STRUCTURAL APPLICATIONS

Analysis, design, supervision of construction and performance of structures. Topics include: structural systems, 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.

Course: CE42

Prerequisites: CEB355, CEB291, CEB354

Credit Points: 6

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.

Course: CE42

Prerequisites: CEB220, CEB241, CEB355, CEB460

Credit Points: 5

Contact Hours: 2 per week

### ■ CEB430 BUILDING CONSTRUCTION

Provides a broad appreciation of building techniques and principles; including details of building construction from footings to fitting out for low and high-rise structures including appropriate building regulations.

Course: CE42

Prerequisite: CEB305

Credit Points: 2

Contact Hours: 1 per week

### ■ CEB459 PRINCIPLES OF STRUCTURES 2

Loading on buildings. Foundations and footings. Timber, construction, floor, wall and roof framing cladding, fastening and connections. Structural stability. Masonry: brickwork and blockwork, loadbearing construction, continuity, stiffening. Codes.

Courses: AR41, BN30

Prerequisite: CEB359

Credit Points: 4

Contact Hours: 2 per week

### ■ CEB460 HYDRAULIC ENGINEERING 2

Hydraulics: 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.

Course: CE42

Prerequisite: CEB360

Co-requisite: CEB361

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, the student should be able to proceed to simple design exercises in water supply and sewerage and treatment processes.

Course: CE42

Prerequisite: CEB370

Credit Points: 5

Contact Hours: 3 per week

### ■ CEB491 PROJECT (CIVIL)

Students undertake a relatively difficult task in an area of civil engineering practice requiring 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.

**Course:** CE42

**Prerequisites:** Student must be in final year of course, however students in the penultimate year of their course may be given special permission.

**Co-requisites:** CEB393, CEB492

**Credit Points:** 18 **Contact Hours:** 3 per week

#### ■ CEB492 ENGINEERING INVESTIGATION & REPORTING 2

Verbal and written presentation techniques of civil engineering investigation topics.

**Course:** CE42

**Prerequisite:** CEB393

**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. Unit is offered irregularly. When offered the unit material will be advertised by the Head of School.

**Course:** CE42

**Prerequisites:** Students must be 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. Site visits are included.

**Course:** CE42 **Prerequisites:** CEB307, CEB305

**Credit Points:** 6 **Contact Hours:** 3 per week

#### ■ CEB504 ENGINEERING SCIENCE 3

Hydrology; rainfall, stream flow measurement; hydraulic design of drainage. Soil mechanics; 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.

**Courses:** CE42, SV34

**Co-requisite:** CEB364

**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, submit reports and make presentations regarding these exercises.

**Course:** CE42

**Prerequisite:** CEB305

**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. Unit is offered irregularly. When offered the unit material will be advertised by the Head of School.

**Course:** CE42

**Prerequisites:** Students must be in the final year of their course.

**Credit Points:** 6 **Contact Hours:** 3 per week

#### ■ CEB511 TRANSPORT ENGINEERING 2

Students focus on two aspects of transport engineering, rural road upgrading and small urban area transportation planning and road needs. Includes highway upgrading, deficiency analysis, traffic accident analysis, traffic flow simulation, staged development: 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.

**Course:** CE42

**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.

**Course:** CE42

**Prerequisite:** CEB313

**Credit Points:** 6

**Contact Hours:** 3 per week

#### ■ CEB520 FINITE ELEMENT METHODS

Finite element, finite difference and similar numerical techniques. Theoretical and modelling considerations are covered in the context of case studies in structures, soil mechanics and hydraulics.

**Course:** CE42

**Prerequisite:** CEB220

**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.

**Course:** CE42 **Prerequisites:** CEB355, CEB306

**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.

**Course:** CE42

**Prerequisite:** CEB341

**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 methods of deep foundation improvement. Rock excavation and slope stabilisation. Soil improvement, including mechanical and chemical stabilisation, soil reinforcement and other techniques. Anchoring in soil and rock. Earth and rockfill design and construction.

**Course:** CE42

**Prerequisite:** CEB341

**Credit Points:** 6

**Contact Hours:** 3 per week

#### ■ CEB543 ENVIRONMENTAL GEOHYDROLOGY

An introduction into the investigation and analysis of groundwater flow through porous media, including numerical modelling and contaminant transport.

**Course:** CE42

**Prerequisites:** CEB341

**Credit Points:** 6

**Contact Hours:** 3 per week

#### ■ CEB551 ADVANCED STRUCTURAL DESIGN

Emphasis on the design of more complex structures. Normally three projects are studied involving some or all of: design in new materials, new analytical techniques, new codes of practice, novel structures.

**Course:** CE42

**Co-requisite:** CEB405

**Prerequisites:** CEB354, CEB201, CEB306

**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.

Courses: AR41, BN30      Prerequisite: CEB459  
Credit Points: 4      Contact Hours: 2 per week

### ■ CEB560 HYDRAULIC ENGINEERING 3

Lectures, tutorial, practical work and site visits examine selected topics in water engineering. Topics chosen from hydrology, mobile bed hydraulics, river hydraulics, hydraulic structures, urban drainage, physical and mathematical modelling.

Course: CE42      Prerequisites: CEB361, CEB460  
Credit Points: 6      Contact Hours: 3 per week

### ■ CEB561 COASTAL ENGINEERING

Coastal engineering: wave theory, recording and analysis, wave generation; coastal processes, tides, surges, etc. currents, sediment movement, foreshore protection; coastal inlets, canal systems; planning and design of coastal structures; hydraulic models.

Course: CE42  
Prerequisite: CEB360      Co-requisite: CEB460  
Credit Points: 6      Contact Hours: 3 per week

### ■ CEB570 PUBLIC HEALTH ENGINEERING 3

Basic solid waste management (domestic, commercial and industrial wastes); the general principles of industrial liquid waste management, with examples of some important industries.

Course: CE42      Co-requisite: CEB470  
Credit Points: 6      Contact Hours: 3 per week

### ■ CEB575 ENVIRONMENTAL IMPACT ASSESSMENT

Introduction to the techniques of environmental management. Environmental impact assessment and the evaluation of critical environmental problems.

Course: CE42  
Prerequisites: CHB346, CEB370, CEB491  
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.

Courses: AR41, BN30      Prerequisite: CEB559  
Credit Points: 4      Contact Hours: 2 per week

### ■ CEB701 CIVIL ENGINEERING QUANTITIES 1

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 (abutments, superstructure, approach embankments, safety structures, types of bridge structures, foundations, prestressed concrete). It includes a brief introduction to computer applications such as earthwork calculations etc.

Course: CN31, CN33  
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).

Course: CN31, CN33      Prerequisite: CEB701  
Credit Points: 3      Contact Hours: 1.5 per week

### ■ CEB901 CIVIL ENGINEERING QUANTITIES 2

Further study of SMM for industrial engineering construction leading to the measurement of dams, earthworks, storage volumes etc; refinery and processing plant, pipework, vessels, tanks, instrumentation, electrical commissioning, scaffold, shut down maintenance; pipelines, environmental assessment, construction, stations; mining, plant and equipment, conveyors, processing plant etc; oil and gas, off shore platforms, fabrications etc; cost engineering and cost control on engineering projects.

Course: CN33      Prerequisite: CEB701  
Credit Points: 4      Contact Hours: 2 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.

Courses: CE63, CE74  
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 powers and responsibilities are covered.

Courses: CE63, CE74  
Credit Points: 8      Contact Hours: 2 per week

### ■ CEP127 ROAD & TRAFFIC ENGINEERING

Urban traffic management, parking systems, surveys, intersection analysis; the design and evaluation of the urban road network; design of rural roads and pavement structures; pavement management.

Courses: CE63, CE74  
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.

Courses: CE63, CE74  
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.

Courses: CE63, CE74  
Credit Points: 12      Contact Hours: 3 per week

# ■ CEP172 WATER QUALITY ENGINEERING

Liquid wastes and their effect on receiving waters. Dispersion and decay of pollutants in the water environment. Water quality standards and objectives.

Courses: CE63, CE74

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

Courses: CE63, CE74

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.

Courses: CE63, CE74

Credit Points: 8 Contact Hours: 2 per week

# ■ CEP215 ADVANCED TRAFFIC ENGINEERING

Traffic flow theory and traffic management. Analytical and computer analysis routines for urban intersection design, their background and applications.

Courses: CE63, CE74

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.

Courses: CE63, CE74

Credit Points: 12 Contact Hours: 3 per week

# ■ CEP276 ADVANCED TREATMENT PROCESSES

The design and operation of water and wastewater treatment plants, including conventional and alternative processes. Current practice and development.

Courses: CE63, CE74

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.

Courses: CE63, CE74

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.

Courses: CE63, CE74

Credit Points: 8 Contact Hours: 2 per week

# ■ CEP310 URBAN TRANSPORTATION PLANNING

Transportation planning applications; road needs, urban transport, local area planning. Macro land use/transportation and micro urban transportation

models; urban transportation zone selection and data needs; trip generation; model splits; surveying.

Courses: CE63, CE74

Credit Points: 8 Contact Hours: 2 per week

# ■ CEP361 DRAINAGE ENGINEERING

Drainage engineering for municipal engineers, road and railway designers, irrigation and general civil engineers. Rainfall and runoff models, both rational and computer models; drainage hydraulics of roof, streets, pipes, open channels, retention basins, culverts and bridges; erosion, sedimentation aspects of drainage, costs, planning policies and the law.

Courses: CE63, CE74

Credit Points: 8 Contact Hours: 2 per week

# ■ CEP491 MUNICIPAL ENGINEERING PRACTICE

A prescribed program of individual supervised study in a selected area within the field of municipal engineering, involving one or more major assignments together with appropriate tutorials.

Course: CE63

Credit Points: 16 Contact Hours: 4 per week

# ■ CEP998 PROJECT B

The student is required to investigate in depth a shorter approved topic than that required in CEP999. The results will be presented in a major formal report.

Course: CE74

Credit Points: 20 Contact Hours: 9 per week

# ■ CEP999 PROJECT A

The student is required to investigate in depth a substantial 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.

Course: CE74

Credit Points: 36 Contact Hours: 9 per week

# ■ CET120 CIVIL SYSTEMS 1

Introduction to hardware and operating systems of personal computers. Wordprocessors, spreadsheets and databases used for civil engineering applications. Introduction to high level languages using FORTRAN or PASCAL as an example.

Course: CE21

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.

Course: CE21

Credit Points: 7 Contact Hours: 3 per week

# ■ CET180 CIVIL DRAFTING PRACTICE A

Short, practical exercises in drafting. Lettering, linework, layout, orthographic presentation.

Course: CE21

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 relating to their use by civil engineers. Study of welding processes and defects, corrosion mechanisms and prevention for metals. Quality control and selection of engineering materials.

Course: CE21

Credit Points: 7 Contact Hours: 3 per week

### ■ CET195 CIVIL ENGINEERING

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.

Course: CE21

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.

Course: CE21      Co-requisites: CET365, CET435  
Credit Points: 3      Contact Hours: 3 per week

### ■ CET255 STRUCTURAL MECHANICS

Deflections, stress, direct flexure, and shear in beams and shafts. Combined stress conditions.

Course: CE21

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. Drafting office organisation and management.

Course: CE21

Credit Points: 7      Contact Hours: 3 per week

### ■ CET287 CIVIL OFFICE PRACTICE A

Applied civil engineering design drafting/drawing. Use of field data in preparation of plans.

Course: CE21

Prerequisites: MET120      Co-requisites: 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.

Course: CE21      Prerequisites: SVT306, CET365  
Co-requisites: CET775

Credit Points: 3      Contact Hours: 3 per week

### ■ CET365 HYDRAULIC ENGINEERING

Fluids, simple hydrostatics, fundamental characteristics and equations of fluid flow, pipe and open channel flow, hydraulic measurements. Laboratory work on fluid behaviour and instrumentation.

Course: CE21

Credit Points: 7      Contact Hours: 3 per week

### ■ CET387 CIVIL ENGINEERING DRAFTING A

Municipal engineering design drawings for road-works. Stormwater drainage designs and drawings.

Course: CE21

Prerequisites: CET286      Co-requisite: CET585  
Credit Points: 3      Contact Hours: 3 per week

### ■ CET405 FIELD PRACTICE 2A

Field visits and laboratory workshops on many aspects of civil engineering construction.

Course: CE21

Credit Points: 3      Contact Hours: 3 per week

### ■ CET420 CIVIL SYSTEMS 2

Computer file management, error recovery, networking, software installations and data acquisition, civil engineering software applications.

Course: CE21

Credit Points: 7      Contact Hours: 3 per week

### ■ CET435 CONCRETE PRACTICE

Raw materials, cements, aggregates, additives and admixtures. Plastic and hardened concrete. Testing and quality control. Mix design, concrete manufacturing and transportation, construction procedures.

Course: CE21

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 and submission of a comprehensive report.

Course: CE21

Prerequisites: Student must be in final year.

Credit Points: 3      Contact Hours: 3 per week

### ■ CET565 ROAD & DRAINAGE ENGINEERING

Road construction and maintenance, pavement types, surfacing, maintenance, design and construction. Road drainage principles, design and construction of urban and rural culverts, urban stormwater drainage.

Course: CE21

Prerequisites: CET815, CET645, CET365

Credit Points: 7      Contact Hours: 3 per week

### ■ CET585 CIVIL ENGINEERING DRAFTING

Preparation of municipal engineering drawings including roadworks and stormwater drainage. State and local authority standards. Projects involve varying amounts of design computations and computer usage. Quantity take-off, bills of quantities, cost estimates and cross referencing between drawings, bills of quantities and specifications.

Course: CE21

Prerequisite: CET286      Co-requisite: CET565  
Credit Points: 7      Contact Hours: 3 per week

### ■ CET598 PROJECT 2

An individually designed program including designs, reports and investigations of sanitary engineering.

Course: CE21

Prerequisites: 72 credit points.

Credit Points: 21      Contact Hours: 9 per week

### ■ CET606 CONSTRUCTION MANAGEMENT

Construction planning, organisational structure, construction reporting, contract management, human relations, civil engineering plant hire.

Course: CE21

Credit Points: 7      Contact Hours: 3 per week

### ■ CET645 SOIL MECHANICS

Identification and classification of soils; testing methods. Compaction of soil, soil permeability, effective and total stress, shear strength and compressibility. Introduction to retaining walls, bearing capacity, CBR testing, in situ sampling and testing.

Course: CE21

Credit Points: 7      Contact Hours: 3 per week

### ■ CET655 CONCRETE & STEEL DESIGN

Principles of structural design. Design in structural steel, detailing of elements and connections. Design of concrete members, detailing of elements.

Course: CE21

Prerequisites: CET135, CET255, CET435

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 unit may be changed from semester to semester depending on demand and available staff.

Course: CE21

Prerequisites: 72 credit points.

Credit Points: 7 Contact Hours: 3 per week

**■ CET704 CIVIL CONSTRUCTION PRACTICE**

Principles of temporary works design; formwork, false work, scaffolding, shoring, de-watering, excavation and earthworks, civil engineering plant; the Construction Safety Act and Regulations.

Course: CE21

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 to local authority facilities.

Course: CE21

Prerequisite: CET815

Co-requisites: CET565, CET775

Credit Points: 7 Contact Hours: 3 per week

**■ CET708 SPECIFICATIONS & ESTIMATES**

General conditions of contract, arbitration, annexures, specifications, special provisions. Types of estimates. Mechanics of estimating, computer applications.

Course: CE21

Credit Points: 7 Contact Hours: 3 per week

**■ CET735 ADVANCED LABORATORY TESTING 1**

Testing work to give experience with a range of equipment and testing procedures. Includes field and laboratory testing in a number of selected areas.

Course: CE21

Credit Points: 7 Contact Hours: 3 per week

**■ CET756 BUILDING CONSTRUCTION PRACTICE**

Practical aspects associated with reinforced, prestressed concrete (in situ and precast). Steel construction, aspects of fabrication and erection. Clay brick and concrete masonry construction including cladding. Overview of building regulations.

Course: CE21

Prerequisite: CET190

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 to treatment plants.

Course: CE21

Prerequisite: CET365

Credit Points: 7 Contact Hours: 3 per week

**■ CET776 EQUIPMENT OPERATION & MAINTENANCE**

Principles and practice of the operation and maintenance of equipment in water and wastewater treatment plants. Overview of plant; motors, engines, pumps, compressors and generators; rotary and recirculating scraping and raking mechanisms; chemical handling, mixing, dosing; safety and maintenance scheduling for specific equipment items.

Course: CE21

Prerequisites: CET365, CHA140

Credit Points: 7 Contact Hours: 3 per week

**■ CET777 PROCESS OPERATION & CONTROL 1**

Principles and processes of water and wastewater treatment, with reference to their operation. The methods of operational control of these processes.

Course: CE21

Prerequisites: CET365, CET775, CHA140

Credit Points: 7 Contact Hours: 3 per week

**■ CET787 STRUCTURAL ENGINEERING DRAWING**

Structural engineering drawings covering basic steel work and reinforced concrete works. Reinforcing schedules together with details of steel connections.

Course: CE21

Prerequisites: MET120, CET286, CET585, CET655

Credit Points: 7 Contact Hours: 3 per week

**■ CET797 PROJECT 1**

Students undertake a substantial project in their chosen field. Involves the investigation of the topic, performance of tests, design calculations, drawings, etc. and submission of comprehensive report.

Course: CE21

Prerequisites: 72 credit points.

Credit Points: 7 Contact Hours: 3 per week

**■ CET802 CIVIL ENGINEERING PRACTICE 2**

See CET703.

Course: CE21

Prerequisites: 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.

Course: CE21

Credit Points: 7 Contact Hours: 3 per week

**■ CET838 ADVANCED LABORATORY TESTING 2**

Testing projects undertaken in specialist areas and presented as major reports.

Course: CE21

Credit Points: 7 Contact Hours: 3 per week

**■ CET856 ADVANCED CONSTRUCTION TECHNIQUES**

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.

Course: CE21

Prerequisite: CET606

Credit Points: 7 Contact Hours: 3 per week

**■ CET876 PLANT OPERATION & MAINTENANCE**

Operation and maintenance of water quality treatment plants; scheduling, labour control, workshop organisation, safety, training, performance monitoring.

Course: CE21

Prerequisite: CET606

Co-requisite: CET776

Credit Points: 7 Contact Hours: 3 per week

**■ CET877 PROCESS OPERATION & CONTROL 2**

Unit processes of water and wastewater treatment with particular reference to their operation. The methods of operational control of these processes.

Course: CE21

Prerequisite: CET777

Credit Points: 7 Contact Hours: 3 per week

**■ CET887 COMPUTER AIDED DRAFTING**

Using mainframe and personal computers for civil and structural drawing presentations. Output from computer design programs as examples. Software usage and limitations, plan compilation and output.

Course: CE21

Prerequisite: CET286

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.

Course: CE21

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. Use of planimeters. Technical reports.

Course: CE21

Co-requisite: SVT306

Credit Points: 3

Contact Hours: 3 per week

**■ CHA111 LABORATORY TECHNIQUES**

Introduces safe and proficient procedures in the laboratory, and gives practice in the manipulation of common elementary laboratory apparatus, equipment and reagents; on completion 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.

Course: SC10

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.

Courses: CE21, EE21, SC10

Credit Points: 8

Contact Hours: 3 per week

**■ CHA218 ANALYTICAL CHEMISTRY 1**

A lecture and laboratory program on the theory and techniques of titrimetric and gravimetric analysis.

Course: SC10

Prerequisite: CHA111

Credit Points: 8

Contact Hours: 3 per week

**■ CHA219 QUALITATIVE ANALYSIS**

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.

Course: SC10

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.

Course: SC10

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.

Course: SC10

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.

Course: SC10

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; the fundamental aspects of chemical energetics, solution chemistry, equilibria; practical applications.

Course: SC10

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.

Course: SC10

Prerequisite: CHA218, CHA240

Co-requisite: CHA319

Credit Points: 8

Contact Hours: 4 per week

**■ CHA319 ANALYTICAL CHEMISTRY 2**

Lectures and practical work are designed to develop further the basic titrimetric and gravimetric analysis principles introduced in CHA218. The program will feature the analysis of commercial materials with emphasis on sample dissolution techniques.

Course: SC10

Prerequisite: CHA218

Credit Points: 6

Contact Hours: 3 per week

**■ CHA320 CHEMICAL PROCESS PRINCIPLES 1**

Chemical reactors both homogeneous and heterogeneous, unit operations: transport preparation and separation of materials and material and energy balances in chemical processes.

Course: SC10

Prerequisite: CHA270

Co-requisite: CHA370

Credit Points: 8

Contact Hours: 3 per week

**■ CHA350 ORGANIC CHEMISTRY 2**

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.

Course: SC10

Prerequisite: CHA250

Credit Points: 8

Contact Hours: 3 per week

**■ CHA368 INDUSTRIAL CHEMISTRY**

The basic aspects of product and quality control, the underlying fundamental chemistry and 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 unit.

Course: SC10

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: chemical kinetics, surface chemistry and elementary electrochemistry.

Course: SC10

Prerequisite: CHA270

Credit Points: 6 Contact Hours: 2 per week

**■ CHA410 COMPUTERS IN CHEMISTRY**

The use of computers in various aspects of the chemical industry, both in laboratory and plant. The different approaches to laboratory automation and a detailed study of computer control in a selected industry. Field trips also are included.

Course: SC10

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.

Course: SC10

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 applications in the chemical industry.

Course: SC10

Prerequisite: CHA320

Credit Points: 8 Contact Hours: 3 per week

**■ CHA550 ORGANIC CHEMISTRY 3**

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.

Course: SC10

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.

Course: SC10

Co-requisite: CHA350

Prerequisites: CHA240, CHA250, CHA218

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.

Course: SC10

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.

Course: CE21

Prerequisites: CET365, CET775

Co-requisite: CHA140

Credit Points: 7 Contact Hours: 3 per week

**■ CHA670 PHYSICAL CHEMISTRY 3**

The third part of the integrated syllabus of physical chemistry of the Associate Diploma; covers the areas of applied electrochemistry, corrosion, distillation and extraction. Practical applications are emphasised.

Course: SC10

Prerequisite: CHA370

Credit Points: 8 Contact Hours: 3 per week

**■ CHA680 FOOD CHEMISTRY 2**

Advanced chemistry and methods of food processing and preparation. A further major assignment appropriate to the dairy industry is incorporated.

Course: SC10

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 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 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.

Course: CE21

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.

Course: CE21

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, matter, thermodynamics, enthalpy, heat of reactions, organic chemistry.

Courses: PU49, SC30

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; offered for engineering students without sound achievement in chemistry and serves as the foundation for CHB344 and CHB346.

Courses: CE42, EE43, ME45

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.

Courses: LS36, OP42, PU42, PU44, PU45

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, free 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.

Course: CH32

Prerequisites: Year 12 Chemistry - Sound Achievement or Co-requisite: 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.

Courses: ED50, SC30

Prerequisite: Year 12 Chemistry – Sound Achievement or CHB001.

Credit Points: 12 Contact Hours: 6 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.

Course: CH32

Prerequisites: Year 12 Chemistry - Sound achievement 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 thermo-chemistry, galvanic cells, applications to the determination of pH and potentiometric titrations, and colloids. (Note: credit may not be retained for more than one of these units.)

Courses: LS36, OP42, PU42, PU44

Prerequisite: CHB142

Incompatible with: CHB282

Credit Points: 12 Contact Hours: 6 per week

### ■ CHB253 CHEMISTRY 2B

Builds on the fundamental concepts studied in Chemistry 1B CHB183 and develops a knowledge of organic mechanism as a tool for understanding the nature of organic chemical change; the use of modern spectroscopic techniques in structure elucidation.

Course: CH32

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.

Course: PU49

Prerequisite: CHB001

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.

Courses: ED50, SC30

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.

Course: CH32

Prerequisites: MAB212, PHB122, CHB173 and CHB183

Credit Points: 12 Contact Hours: 5 per week

### ■ CHB289 ORGANIC & PHYSICAL 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.

Course: PU45

Prerequisite: CHB142

Incompatible with: CHB242, CHB282

Credit Points: 8 Contact Hours: 4 per week

### ■ CHB292 APPLIED SCIENCE FOR DESIGNERS 2

Chemistry for environmental design; basic chemical properties of common materials, natural and artificial; chemical processes in buildings and artifacts.

Course: BN30

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.

**Courses:** CH32, ED50, SC30

**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.

**Courses:** CH32, ED50, SC30

**Prerequisite:** CHB283 or CHB282

**Credit Points:** 12 **Contact Hours:** 5 per week

**■ CHB344 ENGINEERING CHEMISTRY M**

Specialised chemistry unit designed for mechanical engineers; includes fuels and their combustion; the chemistry of lubricants and lubrication; corrosion and its prevention and water treatment processes.

**Course:** ME45

**Prerequisite:** CHB002 or equivalent

**Credit Points:** 4 **Contact Hours:** 2 per week

**■ CHB346 ENGINEERING CHEMISTRY C**

Specialised chemistry unit designed for civil engineers and includes such topics as PH control; the chemistry of materials; polymers and composites; corrosion and its prevention.

**Course:** CE42

**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. <sup>1</sup>H spectra, areas and integrals, chemical shifts and coupling. Sampling.

**Courses:** ED50, SC30

**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.

**Course:** CH32 **Prerequisites:** CHB183, CHB283

**Credit Points:** 12 **Contact Hours:** 5 per week

**■ CHB372 PHYSICAL 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.

**Courses:** ED50, SC30

**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.

**Course:** CH32

**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; thermodynamics and kinetics.

**Course:** LS36

**Prerequisites:** CHB142, CHB242

**Credit Points:** 4 **Contact Hours:** 2 per week

**■ CHB402 CHEMICALS IN SOCIETY**

This unit provides students with an introduction to the role of Chemistry and its products in our society. Historical and societal aspects are incorporated in the study of a number of relevant applications of chemistry in consumer products. Topics include: chemical hazards, drugs and medicine, water purity, food chemistry, synthetic substances and resources and the environment.

**Course:** ED50 only

**Prerequisite:** CHB182 **Co-requisite:** CHB282

**Credit Points:** 12 **Contact Hours:** 5 per week

**■ CHB411 ENVIRONMENTAL ANALYTICAL CHEMISTRY**

Lectures and practical in the biological sciences dealing with the principles and application of sampling, and electrometric/spectroscopic/flame separation to the analysis of materials from the biosphere.

**Courses:** PU42, PU44, SC30

**Prerequisite:** CHB242 or CHB282

**Incompatible with:** A major in Chemistry or CHB313

**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; solid-liquid separation operations; solid-liquid contacting operations; fluid mechanics and their applications in storage, transport, mixing and dispersing operations; liquid-liquid extraction operations.

**Courses:** CH32, ED50, SC30

**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 and high-performance liquid chromatography in the separation and analysis of organic compounds.

Courses: CH32, ED50, SC30

Prerequisite: CHB372 or CHB352

Credit Points: 12 Contact Hours: 5 per week

#### ■ CHB466 ENVIRONMENTAL CHEMISTRY

An introduction to environmental chemistry for engineers. Introduces chemistry of environmental processes in atmosphere and hydrosphere. Effects of pollutants on the environment. Review of analytical techniques. Global issues including greenhouse, acid rain and ozone depletion.

Course: CE42

Credit Points: 6 Contact Hours: 3 per week

#### ■ CHB473 PHYSICAL CHEMISTRY 4

Thermodynamics; surface chemistry; dynamic electrochemistry; chemical kinetics.

Courses: CH32, ED50, SC30

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.

Courses: CH32, SC30

Incompatible 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 instrumentation; liquid chromatography, ion chromatography, practices and principles.

Courses: CH32, SC30

Prerequisites: CHB313, CHB372, CHB373, 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 in gas absorption psychrometric, drying and membrane operations; sources of chemicals, petrochemical processes, hydrogen economy; chemical engineering process analysis and its applications to industrial processes; topics include: equilibrium thermodynamics and kinetics, ideal reactors, reactor design.

Courses: CH32, SC30

Prerequisites: CHB473, CHB423

Credit Points: 12 Contact Hours: 5 per week

#### ■ CHB533 INORGANIC CHEMISTRY 5

Chemistry of selected metalloids; 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.

Courses: CH32, SC30

Prerequisite: CHB333

Credit Points: 12 Contact Hours: 5 per week

#### ■ CHB553 ORGANIC CHEMISTRY 5

A course in advanced organic chemistry which emphasises the solution of synthetic problems. Topics may include principles of retrosynthesis, concepts of functional group equivalence and interconversions, disconnections, synthons, strategy and tactics, selectivity and control, protecting groups. Synthesis of the major classes of organic compounds, including difunctional compounds, by carbon-carbon bond formation. Selectivity in oxidation and reduction. Introduction to the use of computers in synthesis design. Sources of raw materials for organic chemicals preparation of synthesis ('syn') gas, chemical conversions using syn gas, reactions of alkenes and aromatic feedstocks to produce common chemicals, preparation and chemistry of polymers, the industrial preparation of selected pharmaceuticals.

Courses: CH32, SC30

Prerequisite: CHB453

Credit Points: 12 Contact Hours: 5 per week

#### ■ CHB573 PHYSICAL CHEMISTRY 5

Kinetics; colloid chemistry; phase equilibria; quantum mechanics; statistical mechanics.

Courses: CH32, SC30

Prerequisite: CHB473

Credit Points: 12 Contact Hours: 5 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 requires 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 competence in search techniques and experience in experimental design. The laboratory program aims to develop 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.

Courses: CH32, SC30

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

#### ■ CHB601 PROJECT

A variety of chemical problems reflecting teaching, research and consultancy interests of the staff.

Course: CH32

Credit Points: 10 Contact Hours: 4-6 per week

#### ■ CHB603 PROJECT

See CHB601.

Courses: CH32, SC30

Prerequisites: One of CHB573, CHB553 or CHB533 + CHB513 or CHB523

Credit Points: 12 Contact Hours: 5 per week

#### ■ CHB610 ADVANCED ANALYSIS

Use of computers for on-line data acquisition and instrument control. Microprocessor controlled instrumentation and dedicated data systems. Advanced instrumental techniques, with emphasis on trace techniques and associated sample-handling requirements. Techniques include: electroanalytical techniques, nondestructive techniques and thermal methods.

Courses: CH32, SC30

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.

**Courses:** CH32, SC30 **Prerequisite:** CHB513  
**Credit Points:** 12 **Contact Hours:** 5 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. Steady-state process analysis, simulation and design, with the aid of ASPEN software system; modelling process flow-sheets and chemical reactors; case study problem solving using ASPEN.

**Courses:** CH32, SC30 **Prerequisite:** CHB523  
**Credit Points:** 12 **Contact Hours:** 5 per week

# ■ CHB627 CHEMICAL TECHNOLOGY 6

Measurement and control in large-scale chemical processing; introduces process modelling including strategies of process operations, optimisation methods, linear and dynamic programming.

**Courses:** CH32, SC30  
**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.

**Courses:** CH32, SC30  
**Prerequisite:** CHB527 **Co-requisite:** CHB627  
**Credit Points:** 6 **Contact Hours:** 3 per week

# ■ CHB640 CHEMISTRY 6

Colloid chemistry and rheology; Fourier transform, laser and time resolved spectroscopy; interpretative <sup>13</sup>C NMR spectroscopy; free radical and photochemistry and the organic chemistry of sulphur and phosphorus compounds.

**Course:** CH32  
**Incompatible with:** CHB641, CHB671; credit may not be retained for more than one of these.  
**Prerequisites:** CHB450, CHB470, CHB550, CHB570  
**Credit Points:** 4 **Contact Hours:** 2 per week

# ■ CHB643 APPLIED SPECTROSCOPY

Nuclear magnetic resonance spectroscopy; vibrational spectroscopy; remote spectroscopy; UV/vis and fluorescence spectroscopies.

**Courses:** CH32, ED50, SC30  
**Prerequisites:** CHB373 or CHB372 + (CHB353 or CHB352)  
**Credit Points:** 12 **Contact Hours:** 5 per week

# ■ CHB653 APPLIED BIOLOGICAL CHEMISTRY

Overview of molecular cell biology and chemistry; biochemistry of proteins and cells; 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.

**Course:** CH32 **Prerequisite:** CHB553  
**Credit Points:** 12 **Contact Hours:** 5 per week

# ■ CHB660 INDUSTRIAL VISITS

Visits to selected industries, for example, petroleum, industrial chemicals, sugar.

**Courses:** CH32, SC30 **Prerequisite:** CHB510  
**Credit Points:** 2 **Contact Hours:** 1 per week

# ■ CHB663 ENVIRONMENTAL CHEMISTRY

Toxicology; water quality, its assessment; modeling reactions in water bodies; air quality; criteria pollutants and health effects; indoor pollutants; monitoring; dispersion of pollutants; control techniques.

**Courses:** CH32, SSC30  
**Prerequisite:** CHB373 or CHB372  
**Credit Points:** 12 **Contact Hours:** 5 per week

# ■ CHB690 ADVANCED MATERIALS SCIENCE

Advanced materials analysis; fibre reinforced composite materials; advanced alloys; inorganic polymers; applied polymer science.

**Courses:** CH32, SC30 **Prerequisite:** CHB590  
**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.

**Courses:** CH32, SC30 **Prerequisite:** CHB473  
**Credit Points:** 12 **Contact Hours:** 5 per week

# ■ CHB700 RESEARCH 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.

**Course:** SC60 **Credit Points:** 48

# ■ CHB701 COMPLEMENTARY STUDIES FOR CHEMISTS

Studies may 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, development of research management strategies; and coursework material from other accredited courses as directed by the course coordinator and Head of School.

**Course:** SC60 **Credit Points:** 8

# ■ CHB740 ELECTIVE STUDIES 1

Advanced studies on a topic of particular relevance to the student's research project; topics studied are normally in specific areas of physical chemistry, analytical chemistry, inorganic chemistry or organic chemistry. A supervised reading program is involved and the unit may also include a formal lecture program. Relevant material from other accredited courses may be included as part or all of the requirement for this unit as directed by the course coordinator and Head of School.

**Course:** SC60  
**Credit Points:** 6 **Contact Hours:** 2 per week

# ■ CHB840 ELECTIVE STUDIES 2

This unit provides students with a further opportunity to undertake advanced studies on a topic of particular relevance to their research project; tailored to suit individual students but the topics studied would nor-

mally be in specific areas of physical chemistry, analytical chemistry, inorganic chemistry or organic chemistry but may be in a different area from that chosen in CHB740. A supervised reading program is involved and the unit may also include a formal lecture program. Relevant material from other accredited courses may be included as part or all of the requirement for this unit as directed by the course coordinator and Head of School.

**Course:** SC60

**Credit Points:** 6 **Contact Hours:** 2 per week

#### ■ CHB780 ADVANCED TOPICS IN CHEMISTRY 1

#### ■ 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 units will be assessed at the end of the year.

**Course:** SC60

**Credit Points:** 24 **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.

**Courses:** LS65, LS70, SC60, SC80

**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

#### ■ CHP691 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.

**Courses:** CE63, CE74

**Prerequisites:** CHB551, CHB571

**Credit Points:** 8 **Contact Hours:** 2 per week

#### ■ CHS200 CHEMISTRY

Introduction to general and organic chemistry; atoms, molecules, ions; chemical bonding; chemical reactions and equations; solution chemistry; acids, bases and chemical equilibrium; gases; electrochemistry and nuclear chemistry; basic chemistry of organic compounds, aliphatic and aromatic.

**Course:** BN10

**Credit Points:** 6 **Contact Hours:** 3 per week

#### ■ CNB005 MEASUREMENT OF CONSTRUCTION 1

Introduction to Quantity Surveying including the work of the Quantity Surveyor and his relationship with other members of the building industry. A study of mensuration and formulae involved in the calculation of length, area and volume. Detailed study and instruction in the process and methods of taking off and billing of quantities in the trades roofer and roof plumber, plasterer, paviour, tiler and terrazzo worker, joiner, ironmonger, glazier and painter.

**Courses:** CN31, CN33

**Prerequisites:** CNB151, CNB154

**Credit Points:** 6 **Contact Hours:** 3 per week

#### ■ CNB006 MEASUREMENT OF CONSTRUCTION 2

The process and methods of taking off and billing quantities in the trades excavator, concreter, bricklayer and blocklayer, and carpenter.

**Courses:** CN31, CN33

**Prerequisite:** CNB005

**Credit Points:** 6 **Contact Hours:** 3 per week

#### ■ CNB009 MEASUREMENT OF CONSTRUCTION 3

Detailed study and instruction in the process and methods of taking off and billing quantities in more complex building solutions in the trades excavator, concreter, bricklayer and blocklayer, underpinning, pier and beam RC frame and suspended slabs.

**Courses:** CN31, CN33

**Prerequisites:** CNB006, CNB254

**Credit Points:** 4 **Contact Hours:** 2 per week

#### ■ CNB010 MEASUREMENT OF CONSTRUCTION 4

Detailed study and instruction in the process and methods of taking off and billing quantities in the trades asphalter and built up roofing, demolisher, mason, structural steel and precast concrete.

**Courses:** CN31, CN33

**Prerequisite:** CNB009

**Credit Points:** 4 **Contact Hours:** 2 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; refrigeration; air-conditioning systems, composition, cost, application, construction and installation; heating, fuel types, efficiency, capital and annual costs; effect of building ordinances.

**Courses:** CN31, CN33, PU42

**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.

**Courses:** CN31, CN33

**Prerequisite:** CNB253

**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.

**Courses:** CN31, CN33      **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.

**Courses:** CN31, CN33  
**Credit Points:** 4      **Contact Hours:** 2 per week

**■ CNB131 MEASUREMENT OF CONSTRUCTION 1A**

Subject description as for CNB005.

**Courses:** CN31, CN33  
**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.

**Courses:** CN31, CN33  
**Credit Points:** 4      **Contact Hours:** 2 per week

**■ CNB144 STRUCTURES 2**

See CNB143.

**Courses:** CN31, CN33      **Prerequisite:** CNB143  
**Credit Points:** 4      **Contact Hours:** 2 per week

**■ CNB145 STRUCTURES 1**

The needs of constructors; statics; bending theory for simple and continuous beams, approximate analysis methods; properties of sections; load transfer; design of simple timber and steel beams and columns for model projects; W33 framing manual for member sizing, tiedown and timber connection.

**Courses:** CN31, CN33  
**Credit Points:** 4      **Contact Hours:** 2 per week

**■ CNB146 STRUCTURES 2**

Concepts of masonry design; design theory for reinforced concrete; design of simple concrete footings, slabs of ground, beams, columns, suspended slabs; design of slab for Construction 3 project; concept of PSC design; design of simple steel connections.

**Courses:** CN31, CN33      **Prerequisite:** CNB145  
**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 effects.

**Courses:** CN31, CN33, PU42  
**Credit Points:** 12      **Contact Hours:** 6 per week

**■ CNB154 CONSTRUCTION 2**

Continuation of CNB151; properties of materials, and behaviour in manufacturing and construction, effect on form and structure; workshop and studio working details of building components, coordination of building elements.

**Courses:** CN31, CN33      **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.

**Course:** CN32  
**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. Draughting: preparation of construction details and drawings.

**Courses:** CN31, CN32      **Prerequisite:** CNB161  
**Credit Points:** 9      **Contact Hours:** 3.5 per week

**■ CNB166 URBAN ECONOMICS**

Economic processes and spatial context of the city; differentiation of competing land use; location decisions in the urban market; intra-urban location; market failures, externalities and government involvement; transport in the urban environment, urban management; urban issues. Economics of the Australian construction industry.

**Course:** CN32  
**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.

**Course:** PU42, PU65  
**Credit Points:** 8      **Contact Hours:** 4 per week

**■ CNB173 MATERIAL SCIENCE 1**

Properties, manufacture, use and analysis of timber, steel, concrete and clay products including investigation into their strength, density, hardness, porosity, plasticity, elasticity and deterioration; investigation and protection of materials against corrosion and fire.

**Course:** PU42  
**Credit Points:** 4      **Contact Hours:** 2 per week

**■ CNB174 MATERIAL SCIENCE 2**

The physical and chemical properties of materials and how they affect construction and structural qualities; laboratory and field testing of bricks, mortar, brick-

work, concrete, timber and steel; investigation and protection of materials against corrosion and fire.

**Course:** PU42 **Prerequisite:** CNB173

**Credit Points:** 4 **Contact Hours:** 2 per week

### ■ CNB175 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.

**Course:** PU42

**Credit Points:** 4 **Contact Hours:** 2 per week

### ■ CNB176 STRUCTURES 2

A continuation of the content of CNB175.

**Course:** PU42 **Prerequisite:** CNB175

**Credit Points:** 4 **Contact Hours:** 2 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.

**Courses:** CN31, CN33, PU42

**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.

**Courses:** CN31, CN33 **Co-requisite:** CNB253

**Prerequisites:** CNB151, CNB154

**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 asphalt, built-up roofing, demolisher, mason, structural steel and precast concrete.

**Courses:** CN31, CN33 **Co-requisite:** CNB254

**Prerequisites:** CNB253, CNB245

**Credit Points:** 8 **Contact Hours:** 4 per week

### ■ CNB247 MATERIAL SCIENCE 3

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.

**Courses:** CN31, CN33

**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.

**Courses:** CN31, CN33

**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.

**Courses:** CN31, CN33 **Prerequisite:** CNB253

**Credit Points:** 12 **Contact Hours:** 6 per week

### ■ CNB259 STRUCTURES 3

Portal behaviour; plastic versus elastic design; structural bracing; truss analysis; stability of structures during construction; stability of cranes, loads in lifting systems; unbalanced loads during construction; stability of marine equipment; stability of multi-storey buildings; loading and design of simple retaining structures.

**Courses:** CN31, CN33

**Prerequisites:** CNB103, CNB104, CNB145, CNB146

**Credit Points:** 4 **Contact Hours:** 2 per week

### ■ CNB261 BUILDING STUDIES 3

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.

**Course:** CN32

**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.

**Course:** CN32

**Prerequisite:** CNB261

**Credit Points:** 8 **Contact Hours:** 3 per week

### ■ CNB263 VALUATION 1

Learning in University; basic concepts and principles of real property value. Definitions of value. Process and methods used in property valuation. Ethics Factors influencing accuracy of valuations. The comparative approach. Valuations of vacant land and residential property. Valuation inspection and reports. Practical valuation assignments. Summation. Investment valuation; rental value, outgoings.

**Course:** CN32

**Credit Points:** 9 **Contact Hours:** 4 per week

### ■ CNB268 VALUATION 2

See CNB263.

**Course:** CN32

**Credit Points:** 8 **Prerequisite:** CNB263

**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; site planning and organisation of projects; material handling and site equipment selection.

**Course:** CN31, CN33 **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; road-works, techniques, stabilised construction, surface sealing and associated bridge construction; falsework and temporary works.

**Courses:** CN31, CN32, CN33  
**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.

**Courses:** CN31, CN32, CN33  
**Credit Points:** 3 **Contact Hours:** 1.5 per week

### ■ CNB343 ECONOMICS OF THE CONSTRUCTION INDUSTRY

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 time delays; finance industries, types and use of finance, use of gearing, risk considerations, cash flow; failure of developer and builder firms.

**Courses:** CN31, CN33  
**Credit Points:** 4 **Contact Hours:** 2 per week

### ■ CNB347 HYGIENE & SANITATION

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.

**Courses:** CN31, CN33, PU42  
**Credit Points:** 4 **Contact Hours:** 2 per week

### ■ CNB362 PROPERTY AGENCY

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.

**Course:** CN32 **Credit Points:** 8 **Contact Hours:** 3 per week

### ■ CNB363 VALUATION 3

Valuation formula; time value concepts; investment approach, basic capitalisation and cash flow techniques. Assumptions. Practical applications of investment approach to suburban and CBD properties.

**Course:** CN32 **Prerequisite:** CNB268  
**Credit Points:** 8 **Contact Hours:** 3 per week

### ■ CNB364 VALUATION 4

See CNB363.

**Course:** CN32 **Prerequisite:** CNB363  
**Credit Points:** 8 **Contact Hours:** 3 per week

### ■ CNB367 REAL ESTATE ACCOUNTING 1

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.

**Course:** CN32  
**Credit Points:** 8 **Contact Hours:** 3 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 ongoing business. Project sorting and budgeting.

**Course:** CN32 **Prerequisite:** CNB367  
**Credit Points:** 8 **Contact Hours:** 3 per week

### ■ CNB401 BUILDING ECONOMICS & COST PLANNING

Cost control building outputs and costs; comparison of cost planning and approximate estimating; cost implications 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; progress payments and final accounts.

**Course:** CN31 **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 policy maker and executive; accountability; problem solving; organisation 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; tenders and contracts; controlling incoming work, securing contracts.

Courses: CN31, CN33 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.

Courses: CN31, CN33 Prerequisite: CNB403  
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; 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.

Course: CN31 Co-requisite: CNB254  
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; breach of contract; major provisions in Australian Standard Forms of Building Contract.

Courses: CN31, CN33  
Credit Points: 6 Contact Hours: 1 per week

### ■ CNB442 VALUATION & DILAPIDATIONS

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.

Courses: CN31, CN33  
Credit Points: 6  
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.

Courses: CN31, CN33 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.

Courses: CN31, CN33  
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.

Courses: CN31, CN33  
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; computer measurement of contractual systems; specification and preamble development.

Course: CN33  
Credit Points: 4 Contact Hours: 2 per week

### ■ CNB452 COMPUTER SOFTWARE APPLICATIONS 2

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; progress payments; cash flow forecasts.

Course: CN33  
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, structural systems in suspended slabs and walls.

Course: CN33 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.

Course: CN33 Prerequisite: CNB347  
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 influen-

cing rural valuations. Rural sales, valuation procedures and inspections. Practical assignments.

**Course:** CN32 **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.

**Course:** CN32 **Credit Points:** 8 **Contact Hours:** 3 per week

#### ■ CNB466 PROPERTY INVESTMENT ANALYSIS 2

See CNB465.

**Course:** CN32 **Credit Points:** 8 **Contact Hours:** 3 per week

#### ■ CNB470 VALUATION 6 – RURAL

See CNB464.

**Course:** CN32 **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.

**Courses:** CN32, CN81 **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.

**Courses:** CN32, CN81 **Prerequisite:** CNB368  
**Credit Points:** 7 **Contact Hours:** 2 per week

#### ■ CNB501 BUILDING MANAGEMENT 3

Construction accounting methods and management of on off site financial transactions; construction industry accounting procedures, profit and balance sheets.

**Courses:** CN31, CN33  
**Credit Points:** 4 **Contact Hours:** 2 per week

#### ■ CNB502 BUILDING MANAGEMENT 4

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.

**Courses:** CN31, CN33  
**Prerequisites:** CNB501, CNB404  
**Credit Points:** 4 **Contact Hours:** 2 per week

#### ■ CNB520 SPECIFICATIONS

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.

**Course:** CN33 **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.

**Course:** CN33 **Prerequisites:** CNB013, CNB014  
**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.

**Course:** CN33  
**Credit Points:** 5 **Contact Hours:** 2.5 per week

#### ■ CNB527 PM2 – QUANTITATIVE TECHNIQUES

Operations research techniques applied to the construction industry; linear programming; transportation and assignment methods; dynamic programming, decision trees; descriptive and inductive statistical methods applied to the construction/development industry and research; frequency distributions, measures of central tendency, dispersion; probability of variance, correlation and regression, sampling.

**Courses:** CN31, CN33  
**Prerequisites:** CNB403, CNB404  
**Credit Points:** 3 **Contact Hours:** 1.5 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.

**Courses:** CN31, CN33  
**Prerequisites:** CNB009, CNB010, CNB246, CNB446  
**Credit Points:** 5 **Contact Hours:** 2.5 per week

#### ■ CNB543 LAW 4 – TORTS & ARBITRATIONS

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; conduct of an arbitration; powers and duties of an arbitrator; rules of evidence; validity of publication and enforcement of an award; costs.

**Courses:** CN31, CN32, CN33  
**Prerequisite:** CNB440  
**Credit Points:** 3 **Contact Hours:** 1.5 per week

#### ■ CNB545 PM3 – CONSTRUCTION PLANNING TECHNIQUES I

Application of construction planning and control techniques; bar charts; critical path networks, arrow and precedence diagrams; updating control and reporting techniques; line of balance.

**Courses:** CN31, CN33  
**Prerequisites:** CNB245, CNB446, CNB404, CNB246, CNB010  
**Credit Points:** 7 **Contact Hours:** 3.5 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.

Course: CN31

Prerequisite: CNB545

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; equipment policy, equipment economics, maintenance management; contract administration, processing payments, negotiating extensions and prolongation claims, rise and fall, prescribed payments.

Course: CN31 Prerequisites: CNB403, CNB404

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 client, professional indemnity; image and status; office management and procedures.

Course: CN33

Credit Points: 2

Contact Hours: 1 per week

#### ■ CNB561 PROPERTY MAINTENANCE

Technological, legal and financial factors in property maintenance, including taxation issues; 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.

Course: CN32

Prerequisite: CNB347

Credit Points: 8

Contact Hours: 3 per week

#### ■ CNB563 STATUTORY VALUATION

Capital taxation as it affects property transactions. Valuations for development land tax, capital transfer tax and taxation of capital gains; for statutory rating purposes under relevant legislation; for compulsory acquisition; assessment of compensation resulting from acquisition, resumption and damage. Evidence, the expert witness and professional liability.

Course: CN32 Prerequisites: CNB363, CNB364

Credit Points: 8

Contact Hours: 3 per week

#### ■ CNB564 VALUATION 7

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.

Courses: CN81, CN32

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.

Course: CN32

Credit Points: 8

Contact Hours: 3 per week

#### ■ CNB567 REAL ESTATE MARKET ANALYSIS

Review of theory of price, and applied economics of markets: determinants and conditions of supply and demand, market equilibrium, competition, economic cycles. Real property markets, identification of submarkets: Residential and non-residential markets. Significance of tenure. Impact of government policies, sources of data; analysis of ABS data. Applied studies of nominated submarkets. Market analysis techniques, trends and studies: local, national and overseas. Future trends.

Course: CN32

Credit Points: 4

Contact Hours: 2 per week

#### ■ CNB568 REAL ESTATE PRACTICE

Management concepts in real estate; a business plan: office administration: staff recruitment and training; trust accounts; a composite real estate practice.

Course: CN32

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; proprietary formwork systems, simple falsework design.

Courses: CN31, CN81

Prerequisite: CNB144

Credit Points: 4

Co-requisite: CNB253

Contact Hours: 2 per week

#### ■ CNB603 BUILDING MANAGEMENT 5

The construction labor market, supply and demand, awards, conditions and earnings differentials; role of the construction trade unions and negotiations between employer and unions; construction conciliation and arbitration systems; strikes and lockouts; workers compensation acts and regulations etc.

Courses: CN31, CN33

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.

Course: CN31

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 payments, monthly reports, coordination meetings; financing projects and cash flow.

Courses: CN31, CN33

Credit Points: 4 Contact Hours: 2 per week

#### ■ CNB624 PM7 – BUILDING DEVELOPMENT TECHNIQUES 2

See CNB623.

Courses: CN33, CN81

Credit Points: 4 Contact Hours: 2 per week

#### ■ CNB626 LAND DEVELOPMENT STUDIES

See CNB606.

Courses: CN32, CN81

Credit Points: 4 Contact Hours: 2 per week

#### ■ CNB642 APPLIED COMPUTER TECHNIQUES

Evaluation of a range of commercial computer programs designed for the construction industry.

Course: CN32 Prerequisite: CNB548

Credit Points: 6 Contact Hours: 3 per week

#### ■ CNB643 LAW 5 – COMMERCIAL LAW

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.

Courses: CN31, CN32, CN33

Credit Points: 3 Contact Hours: 1.5 per week

#### ■ CNB647 COST PLANNING & COST 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; taxation and insurance.

Course: CN33

Prerequisites: CNB005, CNB006, CNB009, CNB010, CNB446, CNB461, CNB462, CNB524, CNB540

Credit Points: 4 Contact Hours: 2 per week

#### ■ CNB648 COST PLANNING & COST CONTROL 2

Continuation of CNB647.

Course: CN33

Credit Points: 4 Contact Hours: 2 per week

#### ■ CNB653 POST CONTRACT SERVICES 2

Continuation of CNB526.

Course: CN33

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.

Course: CN33

Prerequisite: final year

Credit Points: 18 Contact Hours: 4.5 per week

#### ■ CNB661 RESEARCH DISSERTATION 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 select a research subject, test its workability, develop procedures, prepare an outline for the study, draft the preliminary section and, after a series of critiques, present a bibliographic report, prepare 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.

Course: CN32

Credit Points: 8 Contact Hours: 4 per week

#### ■ CNB662 RESEARCH DISSERTATION 2

See CNB661.

Course: CN32

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. See CNB623/4.

Course: CN32

Credit Points: 5 Contact Hours: 2 per week

#### ■ CNB664 PROJECT DEVELOPMENT PROCESS 2

See CNB663.

Course: CN32

Credit Points: 6 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.

Course: CN32

Credit Points: 8 Contact Hours: 3 per week

#### ■ CNB666 PROPERTY MANAGEMENT 2

See CNB665.

Course: CN32

Credit Points: 8 Contact Hours: 3 per week

#### ■ CNB667 APPLIED COMPUTER TECHNIQUES

Designed to give students hands-on experience and to demonstrate contemporary commercial software; on completion, students should be able to evaluate a range of commercial and non-commercial computer programs designed for the property development and construction industry; covers accounting and cost control packages; feasibility studies; maintenance packages; CPM, network analysis techniques.

Course: CN32

Credit Points: 8 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. Courses: CN32, CN81  
Credit Points: 4      Contact Hours: 2 per week

■ **CNN441 DISSERTATION**

See CNN442.

Course: BN73

Credit Points: 48      Contact Hours: 4 per week

■ **CNN442 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 the unit moderator.

Course: BN73

Credit Points: 48      Contact Hours: 2 per week

■ **CNP414 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. 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, 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. Courses: BN73, CN64, CN81

Credit Points: 6      Contact Hours: 2 per week

■ **CNP417 DESIGN MANAGEMENT**

The nature of design and the 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. Courses: BN73, CN64, CN81

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. Courses: BN73, CN64, CN81

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.

Courses: BN73, CN64, CN81

Credit Points: 12      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.

Courses: BN73, CN64, CN81

Credit Points: 12      Contact Hours: 2 per week

■ **CNP430 CURRENT ISSUES**

The unit is very much an integrative study area. There are two main strands: the integration, under the project management umbrella, of areas already studied; and the integration of recent and topical developments in the area of project management. Areas may include: quality management, buildability, value analysis, case studies, industrial relations, computer applications and selection, technology, information systems IT and AI, international project management, simulation exercises (Arousal, Bicep), recent developments in law, and englobal land development. Many of these topics will be covered by guest speakers from industry or presented in seminars.

Courses: BN73, CN64, CN81

Credit Points: 18      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. Courses: BN73, CN64, CN81

Credit Points: 12 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.

Courses: BN73, CN64, CN81

Credit Points: 12      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.

Courses: BN73, CN64, CN81

Credit Points: 6      Contact Hours: 2 per week

■ **CNP437 FIELD TRIP**

An experiential field trip of five days duration in an adventure-style environment. The emphasis will be on team building, working in a stressful environment, communication skills, personal discovery and exten-



sion, and building trust and relationships. The activities will be oriented to achieving greater awareness of and competence in the above areas.

**Courses:** BN73, CN64, CN81

**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; cashflow 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.

**Courses:** BN73, CN64, CN81

**Credit Points:** 12

**Contact Hours:** 2 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.

**Courses:** BN73, CN64, CN81, PL69

**Credit Points:** 6

**Contact Hours:** 2 per week

### ■ CNP667 APPLIED COMPUTING

The application of computer programs in the financial and physical management process of property development, management and investment.

**Courses:** BN73, CN64, CN81

**Credit Points:** 6

**Contact Hours:** 2 per week

### ■ COB018 ORGANISATIONAL SKILLS 1

Development of an empowering approach for functioning effectively in a human service organisation; personal and interpersonal skills including career, time and stress management, working collaboratively with co-workers and managers, resolving disagreement and conflict and participating in change.

**Course:** BS70, SS07

**Credit Points:** 12

**Contact Hours:** 3 per week

### ■ COB029 ORGANISATIONAL SKILLS 2

The managerial task in human service organisations; managerial paradigms and an empowering managerial framework; developing collaborative work environments; recruitment, selection and development of workers; managing disagreement and conflict; introducing change.

**Courses:** BS70, SS07

**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.

**Course:** BS50

**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.

**Course:** BS50

**Prerequisite:** COB157

**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.

**Courses:** BS50, BS78

**Prerequisite:** COB106 or HRB104, nil for

postgraduate students

**Credit Points:** 12

**Contact Hours:** 3 per week

### ■ COB103 CRITICAL PERSPECTIVES ON ORGANISATIONS & ENVIRONMENT

The survival of the physical, social, cultural, biological and human world with the world of organisations.

**Courses:** BS50, BS78

**Prerequisites:** COB129, HRN108\*

**Credit Points:** 12

**Contact Hours:** 3 per week

\* This prerequisite concerns MBA students only.

### ■ 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 practical exercises.

**Course:** BS50

**Credit Points:** 12

**Contact Hours:** 3 per week

### ■ COB105 ETHICS

An overview of the diverse ethical theories which may be used in analysing business ethics problems.

**Course:** BS50

**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.

**Courses:** BS50, BS72

**Prerequisite:** COB134

**Credit Points:** 12

**Contact Hours:** 3 per week

### ■ COB107 INTERCULTURAL COMMUNICATION

The social and cultural factors which affect communication with people in other countries for business and related purposes; the influence of values, beliefs and customs on the communication process.

**Course:** BS50

**Prerequisite:** COB110

**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 alian-

ces; cross-cultural aspects of organisational forms and relationships; reference to Pacific rim nations.

**Courses:** BS50, BS78

**Prerequisites:** BSB102 and COB129

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ COB109 ISSUES IN PUBLISHING

The processes involved in book and magazine publishing; changing media habits and literacy skills of consumers; the impact of technology and economics; strategic positioning; editorial concepts and steps in production.

**Courses:** BS50, BS72

**Prerequisites:** COB138, COB157

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ COB110 ORGANISATION & SOCIETY

The broad context (the society and culture) within which organisations operate; students develop an awareness of the influence of Australian society on the nature and operation of formal organisations and of the impact of various organisations – government, business and non-profit – on our society.

**Courses:** BS50

**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.

**Courses:** BS50, BS78

**Prerequisite:** COB102

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ COB112 ORGANISATIONAL COMMUNICATION

Identifies and explores a range of issues of importance in organisations: organisational climate, organisational culture, power and politics, influence strategies, organisational change, gender issues, impact of technology, ethics. Functionalist, interpretive, and critical perspectives will provide a focus for this exploration.

**Courses:** BS50, BS72, BS78

**Prerequisite:** COB106 or HRB104

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ COB113 THEORETICAL PERSPECTIVES ON COMMUNICATION

An overview of the major theoretical and methodological approaches in the study of communication within a professional context.

**Courses:** BS50, BS72

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ COB114 TRENDS IN ORGANISATIONAL DESIGN

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.

**Courses:** BS50, BS73

**Prerequisite:** COB129 or HRN108

**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.

**Course:** ED50

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ COB119 TEXT FORMATTING & TRANSCRIPTION

The use of technology for document preparation, 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.

**Course:** ED50

**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.

**Course:** ED50

**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; the impact that changes in communication technology have had on these systems.

**Course:** ED50

**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.

**Course:** ED50

**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.

**Course:** ED50

**Prerequisite:** COB118

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ COB124 OFFICE TRANSCRIPTION A

Students analyse the process of skills acquisition and gain a knowledge and understanding of skill development as it applies to shorthand and other forms of transcription. Students will have limited or no previous knowledge of shorthand.

**Course:** ED50

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ COB125 OFFICE TRANSCRIPTION B

Students analyse the process of skills acquisition; provides a knowledge and understanding of skill development as it applies to shorthand and other forms of transcription. Students will have previous knowledge of shorthand.

**Course:** ED50

**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 through changes in technology.

**Course:** ED50

**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.

**Course:** ED50

**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.

**Course:** BS50

**Credit Points:** 12      **Contact Hours:** 3 per week

# ■ COB133 ORAL PRESENTATION

Formal oral presentation techniques, including meetings, conferences, interviews and speeches (informative and persuasive).

**Course:** BN30

**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; develops students ability and confidence to successfully communicate in contemporary business and professional situations, such as: face-to-face business interviews; presentations to small groups, ie. clients, boards of directors, etc.; persuasive presentations to large groups eg. the public, company meetings, etc.

**Courses:** BS50, IF52, IS43, IT20

**Credit Points:** 12      **Contact Hours:** 3 per week

# ■ COB136 PROFESSIONAL COMMUNICATION (SERVICE)

Communicating successfully in writing and orally in professional situations. An understanding of the concepts and skills required for effective formal reporting and persuasive writing, oral reporting and persuasive speaking, group decision making and meeting procedures, leadership and participation.

**Courses:** PH38, SC30

**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.

**Courses:** BS50, BS72, IT20

**Credit Points:** 12      **Contact Hours:** 3 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.

**Course:** EE44      **Prerequisites:** COB137, COB163

**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.

**Course:** ME45      **Prerequisite:** COB137 or COB163

**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.

**Courses:** BS50, IF52, IS43      **Prerequisite:** COB138

**Credit Points:** 12      **Contact Hours:** 3 per week

# ■ COB146 ADVANCED PROFESSIONAL WRITING

The 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.

**Course:** BS50      **Prerequisite:** COB138

**Credit points:** 12      **Contact Hours:** 3 per week

# ■ COB147 CREATIVE WRITING

Creative writing involves the communication of ideas and values within a social framework; students examine the creative writing process with emphasis on the short story; problems of publishing and marketing as a professional writer are considered.

**Course:** BS50

**Credit Points:** 12      **Contact Hours:** 3 per week

# ■ COB152 ANALYSIS & METHODOLOGY IN MANAGEMENT

The first part of the unit is designed to establish a conceptual base suitable for the analysis of both abstract and empirical argument. The second part of the unit builds upon the concept of a valid argument by introducing the notion of the empirical research process, both historical and scientific.

**Course:** BS50

**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; 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 with a focus on decision making and communication processes.

**Course:** BS50

**Credit Points:** 12      **Contact Hours:** 3 per week

# ■ COB154 ORGANISATIONAL SOCIOLOGY

Organisations in the public sector; builds upon the Introduction to Sociology and Theory and Administration units to provide a detailed understanding of organisation theory.

**Course:** BS50

**Prerequisite/Co-requisite:** Eight units in the Bachelor of Business degree including either Administrative Theory or Psychology.

**Credit Points:** 12      **Contact Hours:** 3 per week

# ■ COB156 ADVANCED SECRETARIAL STUDIES

Extends the professional education of teachers of Secretarial Studies and provides an opportunity to broaden knowledge of concepts and application of technology, its impact on functions, procedures and supervisory practices in organisations.

**Course:** ED26

**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 documents for specific readers.

Courses: BS50, BS72 Prerequisite: COB138  
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; 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.

Course: BS50 Prerequisites: COB134, COB113  
Credit Points: 12 Contact Hours: 3 per week

#### ■ COB159 RESEARCH CONCEPTS & TECHNIQUES

An overview of the main conceptual and theoretical traditions of research and a broad understanding of practical techniques; qualitative approaches include focus groups, action research, content analysis and institutional analysis; quantitative techniques include survey methods and questionnaire design; research institutions, ethical issues, and the relationship between consumers and researchers.

Course: BS50  
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.

Courses: AA21, BS50, IT32  
Credit Points: 12 Contact Hours: 3 per week

#### ■ COB161 INDEPENDENT STUDY UNIT

A opportunity for advanced level undergraduate students to undertake individual research in an area which is complementary to their course work.

Course: BS50 Prerequisite: 8 units  
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; the skills necessary to develop and maintain success organisations.

Course: BS50 Prerequisite: COB129  
Credit points: 12 Contact Hours: 3 per week

#### ■ COB163 PROFESSIONAL WRITING

The principles of, and strategies for, writing effective technical documents.

Courses: AR41, BN30, CN31, CN32, CN33, EE43, IF23, IF53, ME35  
Credit Points: 6 Contact Hours: 1.5 per week

#### ■ COB164 INTERPERSONAL COMMUNICATION

The principles of, and strategies for, effective interpersonal communication.

Course: ME35

Credit Points: 8 Contact Hours: 2 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, organisational communication, public relations, public affairs and public information.

Course: BS84  
Credit Points: 12 Contact Hours: 3 per week

#### ■ CON102 ADVANCED ORGANISATIONAL COMMUNICATION

How people relate 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 social psychology, sociology, culture theory, systems thinking and network analysis.

Courses: BS72, BS84  
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.

Course: BS84  
Credit Points: 12 Contact Hours: 3 per week

#### ■ COP106 COMMUNICATION THEORY 1

Interpersonal, group, organisational, interorganisational and mass communication; attention is paid to human systems and interaction in human relationships; provides an integrative view of the classical and emerging studies and theories in communication; lays the theoretical foundation for research projects.

Courses: BS61, BS72, BS84  
Credit Points: 12 Contact Hours: 3 per week

#### ■ COP108 COMMUNICATION TECHNOLOGIES & SOCIETY

Overviews the state of the art and studies current and future applications, basic models and theories, the common technical terms, the economics of the fundamental electronics behind the research and the practice of telecommunications, other hardware delivery systems and information technology.

Courses: BS61, BS84  
Credit Points: 12 Contact Hours: 3 per week

#### ■ COP110 SOCIAL & ORGANISATIONAL CHANGE

The origins, nature and effect of social change on individuals, organisations and communities; theories

and models of change will be used to explore planned and unplanned changes currently occurring, particularly as these relate to possible futures; emphasis will be on the strategies and skills required to initiate and participate in effective change management.

Course: BS73

Credit Points: 12 Contact hours: 3 per week

### ■ COP111 INDEPENDENT STUDY

An in-depth study of a topic that contributes to the body of knowledge on organisations, enhances interpersonal or managerial functioning, or has direct relevance for the management of an organisation.

Course: BS73

Credit Points: 12 Contact Hours: 1 per week

### ■ COP113 ORAL COMMUNICATION SKILLS

Formal oral communication techniques including meetings, conferences, interviews and speeches (informative and persuasive).

Course: BS73

Credit Points: 12 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.

Course: BS84

Credit Points: 12 Contact Hours: 3 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.

Course: PL67

Credit Points: 4 Contact Hours: 2 per week

### ■ COP118 MANAGING HUMAN SERVICE ORGANISATIONS 1

The management task in human service organisations; managerial paradigms and the development of an empowering managerial framework; analysis of cultures in human service organisations, personal and interpersonal skills including career, time and stress management, and working collaboratively with co-workers and managers.

Course: BS73

Credit Points: 12 Contact Hours: 3 per week

### ■ COP119 MANAGING HUMAN SERVICE ORGANISATIONS 2

Managerial skills in human service organisations: action planning, recruitment and selection, staff support and development, dealing with problem workers, developing collaborative work groups, decision making, leading meetings, managing conflict.

Course: BS73

Credit Points: 12 Contact Hours: 3 per week

### ■ COP123 APPLICATIONS IN COMMUNICATION TECHNOLOGY

Concepts and applications of communication technology in organisations and the impact of these developments; components of communication technology; information processing system in organisations; impact on and implications for organisations - structures

and people; current applications; future trends, including convergence of new technologies.

Course: BS73

Credit Points: 12 Contact Hours: 3 per week

### ■ COP124 ISSUES IN COMMUNICATION TECHNOLOGY IN ORGANISATIONS

Examines current and anticipated issues in organisations, especially as they relate to communication technologies and people; effect of technology on the communication process in organisational settings; its social impact in organisations; field project.

Course: BS73

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.

Course: BS10, JS21

Credit Points: 12 Contact Hours: 3 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.

Course: BS10

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.

Course: BS10, SV24

Credit Points: 4 Contact Hours: 1.5 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.

Course: ED50

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.

Course: ED50

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; models of leadership; identifying and investigating leadership situations.

Course: ED41

Credit Points: 8 Contact Hours: 3 per week

### ■ CPB281 ETHNICITY & RACISM IN EDUCATION

Students are introduced to the theoretical concepts of ethnicity, prejudice, ethnocentrism and racism; ex-

amines the history of cultural relations in Australia and the development of institutional racism in education; informed, perspectives in Aboriginal and multi-cultural education, and positive approaches to cultural relations in the school setting are emphasised to develop appropriate teacher practices.

Course: ED41

Credit Points: 8 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; emphasis on the impact of ideologies in education.

Course: ED50

Prerequisite: CPB301

Credit Points: 12 Contact Hours: 3 per week

#### ■ CPB303 PHILOSOPHICAL ANALYSIS OF SCHOOL PRACTICES

Current school practices, including the organisation of schools, the nature of teacher work and debates about education from a philosophical perspective. Articulation of a philosophy of teaching emphasising transformative approach to education.

Course: ED50

Prerequisites: 1st and 2nd year studies in Education

Credit Points: 12 Contact Hours: 3 per week

#### ■ CPB330 ABORIGINAL & TORRES STRAIT ISLANDER EDUCATION POLICY

Historical, economic, social factors influencing the position of Aborigines and Torres Strait Islanders; cultural factors and educational policies and programs; development of policies and programs appropriate for these people.

Courses: ED50, ED51, ED52

Credit Points: 12 Contact Hours: 3 per week

#### ■ CPB331 ASIAN CULTURE & EDUCATION

The Queensland Department of Education requires that all teachers have an awareness of contemporary Asian cultures and skills for promoting Asian orientations in classroom practice. This is designed to provide pre-service teachers with knowledge and skills for working in the Asian context of Australian education. Content includes: cultural forms in Asia; contemporary socio-political developments; past and present educational strategies; promoting informed Asian awareness in curriculum and classrooms.

Courses: ED50, ED51, ED52

Credit Points: 12 Contact Hours: 3 per week

#### ■ CPB332 EDUCATION & THE COMMUNITY CONTEXT

The range of inter-relationships between communities and educational activities; comparative studies; policy and its implications for developing strategies; techniques and skills for analysing community needs; some skills to improve effectiveness in working with the community.

Courses: ED50, ED51, ED52

Credit Points: 12 Contact Hours: 3 per week

#### ■ CPB333 POLICY ANALYSIS FOR EDUCATORS

This unit aims to assist educational workers understand the relevance of contemporary policy initiatives for classroom and school practices, to demonstrate how policy may be used strategically to enhance professional practice and to provide skills in critical policy analysis. Particular attention is given to how beginning teachers may respond critically and constructively to pressures within devolved education

systems to participate in policy formation, assessment and implementation.

Courses: ED50, ED51, ED52

Credit Points: 12 Contact Hours: 3 per week

#### ■ CPB334 POWERFUL TEACHERS, POWERFUL STUDENTS

This unit explores from an interdisciplinary perspective thematic questions about teaching: understanding the current notion of teacher/student power; ways of understanding teacher/student power and teaching through powerful and empowering teaching/learning models; the practical knowledge needed to empower beginning teachers.

Courses: ED50, ED51, ED52

Credit Points: 12 Contact Hours: 3 per week

#### ■ CPB335 TEACHER AS RESEARCHER

This unit assists future educational practitioners to understand the role that research can play in improving their everyday practice. It draws on advocacy models of research to develop actual strategies by which practitioners can inform their own educational work and evaluate its effectiveness.

Courses: ED50, ED51, ED52

Credit Points: 12 Contact Hours: 3 per week

#### ■ CPB336 EDUCATION & CULTURAL DIVERSITY

For teachers and students education settings are places of cultural interaction. This unit is designed to provide educators with an understanding of the complex issues involved in catering for cultural diversity in schools and other education settings and strategies for professional practice in contexts of cultural diversity. Contents include: cultural change in education; racism in schooling; curriculum issues; English as a second language; school-community relations.

Courses: ED50, ED51, ED52

Credit Points: 12 Contact Hours: 3 per week

#### ■ CPB337 GENDER & EDUCATION

This unit provides students with a critical awareness of the significance of gender issues in education, together with knowledge of relevant research and policy developments. There will be an emphasis on the implications for school organisation, curriculum and teaching strategies.

Courses: ED50, ED51, ED52, NS48

Credit Points: 12 Contact Hours: 3 per week

#### ■ CPB338 IDENTIFYING & RESPONDING TO STUDENT DIFFERENCE

This unit analyses the range of perceptions and reactions to individual difference; the psychological explanations for the sociocultural contexts of difference in schools; perspectives on the identification and classification of special educational needs. From a commitment to social justice and equity, it examines policy initiatives which impact on learners and teachers; identifies appropriate strategies.

Courses: ED50, ED51, ED52

Credit Points: 12 Contact Hours: 3 per week

#### ■ CPB339 TEACHING ABORIGINAL & TORRES STRAIT ISLANDER STUDENTS

An examination of the cultural, linguistic and social background of Aboriginal and Torres Strait Islander students and their current educational needs. Curriculum issues and classroom strategies for more effective teaching of Aboriginal and Torres Strait Islander students, together with strategies for working with parents and the community.

Courses: ED50, ED51, ED52

Credit Points: 12 Contact Hours: 3 per week

**■ CPB420 CONTEMPORARY ISSUES IN EDUCATION**

The cultural and social contexts and 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.

**Courses:** ED26, NS48

**Credit Points:** 12 **Contact Hours:** 3 per week

**■ CPB421 PHILOSOPHICAL PERSPECTIVES ON SCHOOLING**

Developments in philosophy of education which account for the micro-institutional practices of schooling, school prospectuses, timetables, school architecture, classroom work, equity issues.

**Course:** ED26

**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 in classroom practices.

**Course:** ED26

**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, change and practice.

**Course:** ED26

**Credit Points:** 12 **Contact Hours:** 3 per week

**■ CPB424 SOCIOLOGY OF THE SCHOOL**

Using a sociological framework, this unit provides teachers and administrators with an opportunity to analyse schools and classrooms within a social context; students are able to draw implications to assist them in carrying out their teaching and administration practices more effectively.

**Course:** ED26

**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 the arts plays in education; the democratisation of culture, encouraging more representative forms of cultural production; evaluation of the arts, particularly in the classroom; theory of creativity and the imagination; the deficiencies of an individualistic ethic in the arts.

**Course:** ED26

**Credit Points:** 12 **Contact Hours:** 3 per week

**■ CPB440 THE COMMUNITY & SCHOOL ADMINISTRATION**

Provides students with an opportunity to broaden their understanding of the community context in which schools operate; examines examples of successful community-school linkages such as school advisory councils and develops students' capacities to manage and develop these linkages.

**Courses:** ED23, ED26, ED61

**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 education; growth of educational bureaucracies; State involvement in secondary education; establishment of tertiary education in Australia; the influence of particular reports on Australian education.

**Course:** ED26

**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 unit teachers are given specialist knowledge and skills to prepare students for life in a multicultural society.

**Courses:** ED26, NS48

**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 unit introduces the major international issues in education through studies of global developments and by comparing Australian education with other cultures; develops skills and knowledge appropriate for teachers of the 1990s and the next century.

**Course:** ED26

**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; participation of Aborigines in policies and programs.

**Courses:** ED26, NS48

**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. Emphasis on acquiring personal coping strategies. This unit is also of relevance to male teachers seeking to understand the conflicts facing female teachers.

**Courses:** ED23, ED26, NS48

**Credit Points:** 12 **Contact Hours:** 3 per week

**■ CPB446 WOMEN & 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.

**Courses:** ED26, NS48

**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; appropriateness of education to Australian society.

**Course:** ED26

**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.

Course: ED26

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.

Course: ED26

Credit Points: 12 Contact Hours: 3 per week

#### ■ CPN601 EMERGING LEADERSHIP APPROACHES IN EDUCATION

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.

Course: ED11

Credit Points: 12 Contact Hours: 3 per week

#### ■ CPN602 LEADERS AS AGENTS OF CHANGE IN EDUCATION

This unit 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 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.

Course: ED11

Credit Points: 12 Contact Hours: 3 per week

#### ■ CPN603 CHANGING AGENDAS IN LEADERSHIP EDUCATION

Addresses the differing approaches to the study of leadership, including organisation theory, cultural analysis, critical theory, the increasing number of women in leadership positions and the very essence of leadership itself; enhances the student's understanding of leadership in the 1990s and provides a broad base for work in the leadership area.

Course: ED13

Credit Points: 12 Contact Hours: 3 per week

#### ■ CPN 604 EQUITY & EDUCATIONAL MANAGEMENT: ISSUES & STRATEGIES

The implications of equity, theory and practice at all levels of educational management; issues of gender and educational leadership, disability, race and ethnicity; focuses on processes for overseeing the implementation of change; accountability and the measurement of progress according to equity indicators; organisational culture from the perspectives of leaders, line managers and senior administrators.

Course: ED13

Credit Points: 12 Contact Hours: 3 per week

#### ■ CPN605 ORGANISATIONAL CULTURES & EDUCATIONAL LEADERSHIP

Investigates dimensions of culture in educational organisations and works through cultural analyses, design, strategic management and leadership; the rhetoric of policy versus the reality of practice; explores different leaders and their communities.

Course: ED13

Credit Points: 12 Contact Hours: 3 per week

#### ■ CPN606 EDUCATIONAL LEADERSHIP, POWER & CAREERS

Focuses on crucial issues in the nature of work and an understanding of the concept of career in the changing world in the 1990s; provides an overarching view of discontinuity in social change and a basis for individuals to reconsider their own self-development and the management of their own careers.

Course: ED13

Credit Points: 12 Contact Hours: 3 per week

#### ■ CPP410 UNDERSTANDING EDUCATION A

This unit responds to current needs for quality teaching and learning in schools; it equips future professionals for their complex roles as educators, inviting them to reflect upon the origins, purposes and consequences of educational thought and action; it 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 are 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.

Course: ED32

Credit Points: 9 Co-requisite: LEP410 Contact Hours: 3 per week

#### ■ CPP420 ABORIGINAL EDUCATION CURRICULUM & TEACHING STUDIES C

This Curriculum C unit 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 units.

Course: ED32

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.

Course: ED31

Credit Points: 8 Contact Hours: 4 per week

#### ■ CPP501 SOCIO-CULTURAL ISSUES IN EDUCATION

Examines socio-cultural contexts of schooling; the pastoral care and special needs industries; resistance and disruption in schools; disability and integration.

Course: ED24

Credit Points: 12 Contact Hours: 3 per week

#### ■ CPP510 SOCIO-CULTURAL CONTEXTS OF HUMAN RELATIONSHIPS EDUCATION

Poverty, marriage and partnerships, divorce and separation; family violence; disability.

Courses: ED22, ED24, ED61

Credit Points: 12 Contact Hours: 3 per week



**■ CSA165 COMPUTING**

The BASIC language; computer utilisation and organisation; problem solving; analysis of numerical and non-numerical problems; a brief introduction to FORTRAN; comparison with BASIC.

Course: ME23

Credit Points: 7 Contact Hours: 3 per week

**■ CSA259 INTRODUCTION TO COMPUTING**

An overview 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; emphasis is on demystifying computers; an understanding of the abilities of computers and their role in health science.

Course: LS15, SC10

Credit Points: 8 Contact Hours: 2 per week

**■ CSB087 PROGRAMMING LANGUAGES FOR TEACHERS**

Further software development; techniques of program development; top-down design and modularity; computer programming using appropriate languages.

Course: ED50 Prerequisite: ISB095

Incompatible with: CSB013 and CSB015

Credit Points: 12 Contact Hours: 4 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.

Courses: BS50, MA34, SC30

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.

Courses: CE42, EE43, EE44, IF53, ME45

Co-requisites: MAB193, CEB184

Credit Points: 4 Contact Hours: 2 per week

**■ CSB263 COMPUTING**

Introduction to computer programming; simple applications in the BASIC language. Topics include: computer utilisation; organisation; hardware; software; data organisation; information storage retrieval; computer systems; programming in BASIC; problem solving; analysis of numerical and non-numerical problems; introduction to FORTRAN; use of WordPerfect, VP Planner and dBase III Plus.

Courses: CH32, SC10

Credit Points: 12 Contact Hours: 3 per week

**■ CSB280 PROGRAMMING PRINCIPLES**

Continuation of the material included in CSB155; develops structured program design techniques; introduces advanced algorithms and methods of proving program correctness.

Course: SC10

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.

Courses: CE42, EE44, IF53, ME45

Prerequisite: CSB191

Credit Points: 4 Contact Hours: 2 per week

**■ CSB294 COMPUTER PROGRAMMING**

An introduction to algorithms, programs and computers; basic programming; program structure; programming and computing systems; debugging and verification; data presentation; special topics.

Course: SV34

Co-requisite: SVB121

Credit Points: 6 Contact Hours: 3 per week

**■ CSB350 MISCELLANEOUS STUDIES**

Selected theoretical and/or practical work to complement and/or supplement other units being studied.

Course: CS28

Credit Points: 3 Contact Hours: 1 per week

**■ CSB360 MISCELLANEOUS STUDIES**

See CSB350.

Course: CS28

Credit Points: 6 Contact Hours: 2 per week

**■ CSB370 MISCELLANEOUS STUDIES**

See CSB350.

Course: CS28

Credit Points: 9 Contact Hours: 3 per week

**■ CSB490 SOFTWARE ENGINEERING**

The structure and syntax of well-designed programs as well as programming techniques for use in electronics, communications and electrical engineering, using examples from C and UNIX.

Courses: EE43, EE44

Prerequisite: CSB181

Credit Points: 6 Contact Hours: 3 per week

**■ CSB860 COMPUTER SYSTEMS FOR TEACHERS**

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.

Course: ED50

Credit Points: 10 Contact Hours: 3 per week

**■ CSB980 PROJECT**

Students in IF23 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.

Course: IF23

Co-requisite: This unit 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.

Courses: CS36, CS55

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.

**Courses:** CS36, CS55

**Prerequisite:** CSP212 (or equivalent)

**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ CSN202 PROJECT

This is a two semester unit. In the first semester students must attend lectures/seminars for one hour every two weeks (on average). They also engage in literature search and other design aspects of their research project. The topic of research is to be decided by agreement between the student and a Faculty staff member acting as project supervisor. The second semester is a continuation and completion of the research project initiated in the first semester.

**Course:** CS55 **Credit Points:** 24

### ■ 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.

**Courses:** CS36, CS55

**Prerequisites:** CSB301, CSB311 or equivalent

**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ CSN220 ARTIFICIAL INTELLIGENCE

Artificial intelligence in the computing industry; aspects of artificial intelligence which have given rise to commercial products; background research efforts which promise to have major impact on the use of computers in the near future.

**Courses:** CS36, CS55

**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.

**Courses:** CS36, CS55

**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 to pursue specialised areas, or broaden their knowledge in areas of relevance to their employment. Topics are decided by agreement between the student and a staff member acting as supervisor.

**Course:** CS36 **Credit Points:** 12

### ■ CSN310 PARALLEL PROCESSING

The modelling of parallel systems and the design methodologies used in their construction; applicable software systems and methodologies; the formal analysis of concurrent systems is based on the theory of communicating sequential processes.

**Courses:** CS36, CS55

**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.

**Courses:** CS36, CS55

**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.

**Courses:** CS36, CS55

**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.

**Course:** CS36

**Prerequisite:** CSN350

**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ CSN370 SPECIAL TOPIC – LIBRARY

#### SCIENCE

Aspects of scientific interest at that time. See School noticeboards for further information.

**Courses:** CS36, CS55

**Prerequisite:** To be advised.

**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ CSN380 NEURAL NETWORKS –

#### LIBRARY SCIENCE

The purpose, scope, and history of neurocomputing; 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.

**Courses:** CS36, CS55

**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ CSN450 MAJOR PROJECT

This year long unit enables students to pursue a specialised topic in greater depth. Topics are decided by agreement between the student and a faculty member acting as supervisor.

**Course:** CS36

**Prerequisite:** Completion of eight units of the Master of Applied Science (Computing).

**Credit Points:** 24

### ■ CSP837 STRUCTURED PROGRAMMING

Extends the programming concepts introduced in MDP501; advanced topics in programming: functions; data abstraction; recursion, pointers; use of programming tool boxes.

**Course:** ED21

**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.

**Course:** ED21

**Prerequisites:** MDP501 and CSP837

**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ CSP843 COMPUTER GRAPHICS

Computer-generated graphics in education; examination and use of graphics packages running on microcomputers; programming for graphics.

**Course:** ED21

**Prerequisite:** MDP501

**Credit Points:** 12 **Contact Hours:** 3 per week

**■ CST390 COMPUTER PROGRAMMING 1**

Introduction to computers, including operating systems and utilities; design of algorithms and their implementation in a structural language.

Course: EE22

Credit Points: 7 Contact Hours: 3 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.

Course: IS08 Prerequisite: CSX025

Credit Points: 12 Contact Hours: 3 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, queueing and system timing; local area networks.

Course: IS08 Prerequisite: CSX025

Credit Points: 12 Contact Hours: 3 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 practices.

Course: ED40

Credit Points: 8 Contact Hours: 2 per week

**■ CUB211 TEACHING AS MANAGING LEARNING**

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.

Course: ED41 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.

Course: ED41 Prerequisite: CUB211

Credit Points: 12 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.

Course: ED41

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 is designed to refine education students' theories and practices related to the management of the diverse range of children found within the primary classroom. Understanding the range of exceptional children. Essential knowledge and practices in classroom organisation, student motivation, curriculum modification processes and classroom management.

Course: ED41

Credit Points: 8 Contact Hours: 2 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.

Course: ED50

Prerequisite: Curriculum and Teaching Studies 1

Co-requisite: Curriculum and Teaching Studies 2, EDB302

Credit Points: 12 Contact Hours: 3 per week

**■ CUB330 EDUCATION LAW AND THE BEGINNING TEACHER**

Legal literacy; sources of education law; students and rights; students law and schools; parents law and education; teachers rights and obligations; teachers and school-based accidents; educational malpractice.

Courses: ED50, ED51, ED52

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.

Course: ED26, ED61

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.

Course: ED26, ED61

Credit Points: 12 Contact Hours: 3 per week

**■ CUB413 CURRICULUM, MAKING IT HAPPEN AT SCHOOL**

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.

Course: ED26, ED61

Credit Points: 12 Contact Hours: 3 per week

#### ■ CUB414 ADULT EDUCATION

The design and implementation of educational programs for adults. 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.

Course: ED26

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.

Course: ED26, ED61

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.

Course: ED26

Credit Points: 12      Contact Hours: 3 per week

#### ■ CUB433 TEACHING STRATEGIES

Evaluation of the student's teaching strategies; the literature on teaching strategies; critical evaluation of strategies/models of teaching available.

Courses: ED26, ED61

Credit Points: 12      Contact Hours: 3 per week

#### ■ CUB434 SUPERVISION OF TEACHING

This unit 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.

Courses: ED26, ED61

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; social context and priorities and curricula of that society; Australian curriculum; an international field study – two weeks within a vacation period.

Course: ED26

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 for various educational settings.

Course: ED26

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 prac-

tices 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.

Courses: ED26, ED61

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.

Courses: ED23, ED26, ED61

Credit Points: 12      Contact Hours: 3 per week

#### ■ CUB445 COMMUNITY RESOURCES & SCHOOL CHANGE

Participants identify and develop strategies for working with community groups. An in-depth 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.

Courses: ED26, ED61

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; innovation.

Course: ED26

Credit Points: 12      Contact Hours: 3 per week

#### ■ CUN601 CURRICULUM INVESTIGATIONS

The ways in which questions about curriculum are analysed in various contexts; reviews trends in research methodologies specific to the field of curriculum and issues which are raised in the curriculum research literature; analyses traditional research methodologies; explores the impact on curriculum of approaches such as action research and teacher as researcher; investigates curriculum evaluation.

Course: ED13

Credit Points: 12      Contact Hours: 3 per week

#### ■ CUN602 PROFESSIONAL DEVELOPMENT

Professional development is a dynamic process of learning that leads to new factual knowledge. This is designed for individual educators as they seek to be both proactive and responsive to the challenge of curriculum change. It cultivates their uniqueness and virtuosity, guided by the individual's judgement, and leads to increased personal understanding and awareness and informs and supports professional action at a higher level and in a more integrated way.

Course: ED13

Credit Points: 12      Contact Hours: 3 per week

#### ■ CUN603 EMPOWERMENT FOR CURRICULUM CHANGE

The process of curriculum decision-making and change from the perspectives of 'Who benefits from the change?' and 'Whose values are involved?'; theories of educational change and conceptions of the leadership role as they relate to curriculum change; theoretical framework for considering issues related to power and empowerment.

Course: ED13

Credit Points: 12      Contact Hours: 3 per week

### ■ CUN604 COLLABORATIVE SUPERVISION IN CURRICULUM PRACTICE

Collaborative approaches to supervision designed to empower educators from a variety of professional contexts in relation to the ongoing improvement of curriculum practice in teaching/learning environments; defines supervision; critically evaluates models of supervision; studies in depth collaborative approaches and applies these to teaching/learning environments in a variety of contexts.

Course: ED13

Credit Points: 12 Contact Hours: 3 per week

### ■ CUP411 UNDERSTANDING EDUCATION B

This unit 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.

Course: ED32

Prerequisite: CPP410

Co-requisite: LEP411

Credit Points: 9 Contact Hours: 3 per week

### ■ CUP420 PROFESSIONAL & CURRICULUM STUDIES 1

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.

Course: ED31

Credit Points: 12 Contact Hours: 4 per week

### ■ CUP421 PROFESSIONAL & CURRICULUM STUDIES 2

Integration of curriculum theory, 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 and in the school setting.

Course: ED31

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.

Course: ED31

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.

Course: ED22

Credit Points: 12 Contact Hours: 3 per week

### ■ CUP502 CURRICULUM DEVELOPMENT & INNOVATION

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 their implementation.

Course: ED22

Prerequisite: CUP501

Credit Points: 12

Contact Hours: 3 per week

### ■ CUP503 CURRICULUM: LEARNERS WITH SPECIAL NEEDS

Introduction to curriculum development and situational/self analysis; innovative program approaches for learners with special needs; changing ourselves and our educational environments; evaluation of curriculum development; resource teacher support for school based curriculum development, human relationships education and participation and equity; communication about improved programs.

Course: ED24

Credit Points: 12

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.

Courses: ED40, ED42

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.

Course: ED40

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.

Course: ED40

Credit Points: 8

Contact Hours: 2 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; child development in practical curriculum decision-making; integration across content areas; working with parents and members of the community.

Course: ED40

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.

Course: ED40

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.

Course: ED40

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; to become independent and successful users of language for thinking, learning and communicating.

Course: ED40

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.

Course: ED40

Credit Points: 8      Contact Hours: 3 per week

■ **EAB124 EARLY CHILDHOOD CURRICULUM: DRAMA & SOCIAL EDUCATION**

The value of play for young children 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 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.

Course: ED40

Credit Points: 8      Contact Hours: 3 per week

■ **EAB125 EARLY CHILDHOOD CURRICULUM: MUSIC & MOVEMENT**

Music and movement as a 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; 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.

Course: ED40

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.

Course: ED40

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 the lower primary classroom; evaluation of programs, and assessment and reporting of children's development in literacy.

Course: ED40      Prerequisites: EAB121, EAB122

Credit Points: 12      Contact Hours: 3 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.

Course: ED40, NS48

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.

Course: ED40

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; evaluation of individualised programs and teaching strategies; management of behaviour; family dynamics and parental needs.

Course: ED40, ED42, NS48

Credit Points: 8

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; current syllabus documents; responding to individuals 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.

Course: ED40

Prerequisite: EAB151

Credit Points: 12

Contact Hours: 2 per week

### ■ EAB153 TEACHING STRATEGIES 3

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.

Course: ED40

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.

Course: ED40

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.

Course: ED40

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.

Course: ED40

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; 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.

Course: ED40

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; teaching English as a second language; teaching specific language skills; evaluation and assessment.

Course: ED40, NS48

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; cultural inclusivity: sociology, multicultural studies, aboriginal studies, gender studies and early childhood education and history.

Course: ED40, NS48

Credit Points: 8

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 socioeconomic handicapping circumstances.

Course: ED40

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.

Course: ED40

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.

Course: ED40

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.  
**Course:** ED40  
**Credit Points:** 8      **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 appropriate for young children.  
**Course:** ED40  
**Credit Points:** 8      **Contact Hours:** 2 per week

■ **EAB172 PARENT-PROFESSIONAL RELATIONSHIPS IN EC SETTINGS**  
 Philosophy, principles and practices in models of parent-professional interactions; the needs, roles, relationships and results of some exemplary programs; examination of specific local parent-professional programs (framing questions, carrying out enquiries) on the aims, functions and outcomes of programs involving parents and professionals.  
**Course:** ED40      **Prerequisite:** EAB104  
**Credit Points:** 8      **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.  
**Course:** ED40  
**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.  
**Course:** ED40  
**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.  
**Course:** ED40  
**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; basic improvisation skills, including harmonisation of melodies. Required performance/theory background. Continues into second semester.  
**Course:** ED40  
**Credit Points:** 8      **Contact Hours:** 2 per week

■ **EAB280 EARLY CHILDHOOD 1**  
 Historical trends in both Europe and America which have affected early educational trends. 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.  
**Course:** ED40  
**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 unit 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 unit provides the opportunity to interpret the observational data in a range of educational settings.  
**Course:** ED40      **Prerequisite:** EAB280  
**Credit Points:** 12      **Contact Hours:** 3 per week

■ **EAB282 EARLY CHILDHOOD 3**  
 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.  
**Course:** ED41      **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.  
**Course:** ED41      **Prerequisite:** EAB280  
**Credit Points:** 8      **Contact Hours:** 3 per week

■ **EAB300 EARLY CHILDHOOD ARTS 1**  
 Introductory principles, practices, philosophies and theories in the visual and performing arts as they relate to young children in various contexts; the arts as a way of knowing and expressing; creativity versus artistry; an overview of artistic development from birth to adolescence; the arts, culture, education and the young child; aesthetics and aesthetic development in early childhood; introduction to the integration of the arts. A main focus will be on the elements and concepts in the areas of the visual arts, music, drama, movement and dance with specific emphasis given to the visual arts: the development of the visual arts for children under five years of age and for school aged children; assisting artistry with children under five years of age and with school aged children.  
**Course:** ED52  
**Credit Points:** 12      **Contact Hours:** 3 per week

■ **EAB301 EARLY CHILDHOOD ARTS 2**  
 Application of principles, practices, philosophies and theories in the areas of music, drama, movement and dance, with specific examples provided for how these arts areas provide unique opportunities for knowing and understanding. Children's development and ways in which this development may be assisted is examined in the areas of music, dance, and drama across two age categories - under five years of age and school age. The integration of the arts in relation to the unique, shared elements and concepts across the various domains, and advocacy in the arts.  
**Course:** ED52  
**Credit Points:** 12      **Contact Hours:** 3 per week



**EAB302 EARLY CHILDHOOD FOUNDATIONS 1**

This subject addresses the biological processes which are the foundation of physical, motor and perceptual development of children from birth to eight years; prenatal factors which affect physical, and motor development; growth patterns and changes in body systems which occur in infancy and in young children; the effects of maturation on development; development of perceptual systems (visual, auditory, tactile-haptic, kinaesthetic and vestibular); sensitivity and organisation of these systems; phases and patterns in motor development and the factors affecting that development; observational methods and techniques through which physical, motor and perceptual features of development of children can be analysed.

Course: ED52

Credit Points: 12      Contact Hours: 3 per week

**EAB303 EARLY CHILDHOOD FOUNDATIONS 2**

Review and analysis of current knowledge of the processes and features of language and cognitive development of children birth to 8 years of age; language acquisition and communication; interrelationships between language and thought; the knowledge base and cognitive processes; analysis of observational data on children's behaviour in the area of language and cognition and using such analysis to plan for children's needs, interests and abilities; links with other aspects of development.

Course: ED52

Credit Points: 12      Contact Hours: 3 per week

**EAB304 EARLY CHILDHOOD FOUNDATIONS 3**

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.

Course: ED52

Credit Points: 12      Contact Hours: 3 per week

**EAB305 EARLY CHILDHOOD LANGUAGE EDUCATION 1**

Theories of development and learning of language and literacy from early years through emergent literacy to fluency with the use of a variety of genres of written language; early literacy learning processes, and the teaching practices, strategies and resources to support these in preschools and primary schools; working with parents of children to enhance literacy learning in home, child care, kindergarten and other settings; planning based on observations in order to assist children in educational contexts.

Course: ED52

Credit Points: 12      Contact Hours: 3 per week

**EAB306 EARLY CHILDHOOD LANGUAGE EDUCATION 2**

Review of previous experiences in literacy education from practice and the earlier subject; observation and assessment of the literacy learning abilities of a child as a basis for the development of a profile for planning; reporting to parents; development of

frameworks for and planning of integrated language and literacy education programs appropriate to a range of children and a variety of educational contexts; modification of programs for children with special needs; study of issues in literacy and literacy education in early childhood contexts for children from birth to eight years of age.

Course: ED52

Credit Points: 12      Contact Hours: 3 per week

**EAB307 EARLY CHILDHOOD MATHEMATICS EDUCATION**

Approaches to the teaching and learning of mathematical concepts are reviewed with a focus on the development of the child; the sequence of development from early mathematical understandings to the application of number within in a problem-solving framework; applications of technology.

Course: ED52

Credit Points: 12      Contact Hours: 3 per week

**EAB308 EARLY CHILDHOOD SCIENCES, MATHEMATICS & TECHNOLOGY**

Overview of early childhood science, social studies and maths topics, concepts and processes; investigation of appropriate monitoring strategies; use of a variety of technologies; ways in which early childhood environments can be organised to support integrated, active, enquiry learning, with relevant resources from the immediate classroom, the outdoors, families and the local neighbourhood.

Course: ED52

Credit Points: 12      Contact Hours: 3 per week

**EAB309 INTEGRATED EARLY CHILDHOOD CURRICULUM 1**

Investigation of distinctive curriculum practices in use in Australian early childhood settings such as preschool/kindergarten, child care centres and the first years of primary school; ideas informing practice; curriculum principles which emphasise the importance of children, parents, community and teachers work collaboratively; play as an integrating force in children's learning; teaching and learning occurring within responsive relationships where difference is valued; the nature of teacher decision making and the knowledge bases teachers bring to their curriculum implementation work.

Course: ED52

Credit Points: 12      Contact Hours: 3 per week

**EAB310 INTEGRATED EARLY CHILDHOOD CURRICULUM 2**

Current practices in Australian early childhood settings, understood within philosophical and historical perspectives; examination of key ideas informing the holistic curriculum approaches of the field; theories and practices associated with play; the celebration of difference with particular attention given to practices which are responsive to the values and needs of Aboriginal and Torres Strait Islanders; personalised teaching and learning; in-depth study of the knowledge base of the early childhood teacher practitioner; critical analysis of approaches to designing curriculum for the expanding range of services for young children and families in Australia.

Course: ED52

Credit Points: 12      Contact Hours: 3 per week

**EAB311 ALTERNATIVE PROGRAMS IN EARLY CHILDHOOD**

This subject will aim to broaden students' knowledge of a wide range of community programs which support the needs of children and families outside of

mainstream early childhood settings (e.g., visits to community Aboriginal and Torres Strait Islander programs). A resource file of programs will be established by students to aid in future teaching, to help refer families to appropriate services, to build up a deepened awareness of models of parent-professional communication and to suggest alternative career paths in early childhood.

Course: ED52

Credit Points: 12 Contact Hours: 3 per week

#### ■ EAB312 CASE STUDIES IN EARLY CHILDHOOD & FAMILY LITERACY

Introduction to case study methods, adult literacy and intergenerational and family literacy, including clients from English and Non-English speaking backgrounds; planning and implementing an intergenerational literacy program with a client and the young children; reporting and reflecting upon the program; contributing to ongoing research in family literacy.

Course: ED52

Credit Points: 12 Contact Hours: 3 per week

#### ■ EAB313 CHILDREN'S LITERATURE FOR EARLY CHILDHOOD SETTINGS

A study of the significance of children's literature as it furnishes literacy and language programs: origins and patterns of stories both traditional and contemporary as they reflect society; critical evaluation of books published nationally and internationally; acquisition of skills of selection for use in early childhood settings; planning appropriate long term quality-literature programs that include a wide range of genre and current issues.

Course: ED52

Credit Points: 12 Contact Hours: 3 per week

#### ■ EAB314 CHILDREN, TEACHERS & THE ENVIRONMENT

The exploration of interactions between individuals and their environments; the development of "whole school/whole centre" policies and practices in Environmental Education in early childhood settings; consideration of ecologically sustainable development and social justice through education about, in and for the environment; a strong focus on teachers of young children exploring their own attitudes, values and actions regarding these goals. The unique perspectives of Aborigines and Torres Strait Islanders with regard to environmental issues will be examined.

Course: ED52

Credit Points: 12 Contact Hours: 3 per week

#### ■ EAB315 CREATING CURRICULUM WITH YOUNG CHILDREN

In this subject students will examine dilemmas arising when teachers plan to negotiate the curriculum with children and parents in child care, preschool/kindergarten and primary school settings. Students will critically analyse strategies teachers use to create 'spaces' where children are able to construct knowledge in personally relevant ways.

Course: ED52

Credit Points: 12 Contact Hours: 3 per week

#### ■ EAB316 EARLY CHILDHOOD ART EDUCATION

Historical and contemporary trends in art education; philosophy and practice in early childhood visual arts education; in-depth exploration of young children's artistic development and learning; assessment and evaluation of visual arts in early childhood; curating children's art exhibitions; public information about

children's artistry; advocacy for improving options for young children in the visual arts.

Course: ED52

Credit Points: 12 Contact Hours: 3 per week

#### ■ EAB317 EARLY CHILDHOOD DRAMA IN EDUCATION

This subject will develop skills and understandings of drama in education; in-depth exploration of techniques and strategies to enhance young children's dramatic ways of knowing and learning; assessment and planning for drama across the early childhood curriculum.

Course: ED52

Credit Points: 12 Contact Hours: 3 per week

#### ■ EAB318 EARLY CHILDHOOD EDUCATION & FAMILY ISSUES IN AUSTRALIA

The subject examines contemporary issues facing families such as changing employment patterns, changing family forms, ethnic and cultural diversity and new technologies; in-depth analysis of contemporary issues as they impact on families and on early childhood education; strategies for responding to families and the key issues they face in the context of early childhood education.

Course: ED52

Credit Points: 12 Contact Hours: 3 per week

#### ■ EAB319 EARLY CHILDHOOD SOCIO-CULTURAL CONTEXTS

Opportunity to investigate a broad range of issues currently affecting early childhood educators and their clients, with in-depth study of an issue selected from this broad range. Issues include work based child care and the effect on children, families and teachers; vacation care programs and before and after school programs and what this means for primary school children and teachers; early childhood educators as agents of social change; policy decisions made at state and federal levels which affect early childhood education; how changing patterns of work/employment have affected early childhood education; the low status of caregivers in society who are entrusted with children, 'our investment for the future'; the debate about whether child care is a tool for the liberation of women or the repression of other women; children, poverty and early childhood services; children, ethnicity and early childhood services.

Course: ED52

Credit Points: 12 Contact Hours: 3 per week

#### ■ EAB320 EARLY CHILDHOOD TRANSACTIONS 1

Analysis of interpersonal communications in terms of the students' own socio-cultural context; basic theories, definitions, principles and models of interpersonal communication related to the role of the early childhood educator; interacting empathically and assertively with children, their families, other professionals, and the wider community; awareness of the range of communication skills; accepting the responsibility to lead, delegate and negotiate with individuals and groups; understanding contemporary Australian families, ethical considerations and social justice issues in early childhood education.

Course: ED52

Credit Points: 12 Contact Hours: 3 per week

#### ■ EAB321 EARLY CHILDHOOD TRANSACTIONS 2

Insights into Australian families and interpersonal processes extended from Early Childhood Transactions 1; diversity and commonality in family

childrearing values and practices; the parental role in young children's development; dimensions of parenting behaviour; family-teacher roles; interpersonal skills in practical contexts with families; effective collaborative procedures and skills of listening, giving and receiving feedback, assertion, negotiation and group leadership.

Course: ED52

Credit Points: 12 Contact Hours: 3 per week

### ■ EAB322 ETHICAL RESPONSIBILITIES IN EARLY CHILDHOOD

In-depth examination of legal and ethical responsibilities of early childhood educators; historical overview of changing trends in legislation relating to children; current issues in children's rights, including welfare, human rights, child care; professional ethics and the responsibility of the early childhood educator to children, parents, the community, society, colleagues and the profession; advocacy for improved opportunities for young children; case studies of Australian issues in advocacy, ethics and the law.

Course: ED52

Credit Points: 12 Contact Hours: 3 per week

### ■ EAB323 EVERYDAY FOOD & SCIENCING FOR YOUNG CHILDREN

An overview of science topics, concepts and processes as experienced in everyday life, in the home and various early childhood educational settings; exploration of a food cycle approach to learning, with consideration of space, time, resources and teaching strategies; current early childhood policies and practices which affect the needs of children from birth to age eight years; staff health in relation to early childhood program delivery.

Course: ED52

Credit Points: 12 Contact Hours: 3 per week

### ■ EAB324 INTEGRATING YOUNG CHILDREN WITH DISABILITIES INTO EARLY CHILDHOOD PROGRAMS

The main focus of this subject is on the integrated approach to teaching children with disabilities through an effective and cooperative team approach of teachers, families and support personnel; philosophical and policy issues for the least restrictive early education for young children with disabilities; the range and nature of disabilities early childhood teachers may encounter in their practice; development, implementation and evaluation of individualised programs; teaching strategies for integration into regular programs; needs and concerns of families; the range of support services available to families and teachers.

Course: ED52

Credit Points: 12 Contact Hours: 3 per week

### ■ EAB325 MANAGEMENT OF EARLY CHILDHOOD SERVICES

General management theory and practice; organisational and leadership styles; management of various early childhood services; setting policies and planning for services; implementing day to day tasks and operations; managing and working with people; considering ethical issues and conduct; working outside early childhood services.

Course: ED52

Credit Points: 12 Contact Hours: 3 per week

### ■ EAB326 MUSIC EDUCATION & YOUNG CHILDREN

In depth exploration of musical elements in relation to concept development in young children; applica-

tion of specific techniques for guiding children's understanding, such as solfege, ostinato with Orff-type instruments, and listening with a musical focus; extension of personal musicianship and creativity; integration of music with other areas.

Course: ED52

Credit Points: 12 Contact Hours: 3 per week

### ■ EAB327 PRACTICAL CHILD CARE ISSUES

This subject investigates the practical day to day aspects of designing, communicating, implementing and evaluating developmentally appropriate programs for children from birth to eight years. It will focus on B-3 and 5-8 year old care programs.

Course: ED52

Credit Points: 12 Contact Hours: 3 per week

### ■ EAB328 RESEARCH IN EARLY CHILDHOOD DEVELOPMENT

Research design, methodology and analysis as applied to the study of young children's development. This elective is recommended for students considering enrolment in postgraduate research courses in Early Childhood. Longitudinal, cross-sectional and cross-sequential designs; experimental, quasi-experimental, and naturalistic designs; hypothesis generation; ethical issues in conducting research with young children; measurement and sampling; introduction to descriptive and inferential statistics; report writing and organisation.

Course: ED52

Credit Points: 12 Contact Hours: 3 per week

### ■ EAB329 ROUTINES FOR INCLUSIVE EARLY CHILDHOOD CURRICULUM

The subject focuses on routines for daily living in kindergartens, preschools, child care centres and primary schools. Students create routines which will foster inclusivity of difference based on race, gender, social class and intellectual capabilities; particular attention is given to contexts which are inclusive of Aboriginal and Torres Strait Islander values and beliefs. Investigations of practices currently in use in early childhood settings will form the basis for critical analysis of possibilities for improving practice.

Course: ED52

Credit Points: 12 Contact Hours: 3 per week

### ■ EAB330 STORYTELLING IN EARLY CHILDHOOD

This subject will identify and explore the craft of the storyteller. In particular it will focus on a range of storytelling techniques, identification of suitable stories that can be told; cultural influences on storytelling and storytelling across the curriculum.

Course: ED52

Credit Points: 12 Contact Hours: 3 per week

### ■ EAB331 TECHNOLOGY & THE YOUNG CHILD

The use of computers, calculators and other examples of technology in the learning of young children; links between technology and problem-solving, applications of number concepts and the use of computers in language development and the publication of documents.

Course: ED52

Credit Points: 12 Contact Hours: 3 per week

### ■ EAB332 TECHNOLOGY IN EARLY CHILDHOOD CONTEXTS

Students become involved in an investigation which incorporates the use of technology with young

children. This investigation would be designed, carried out and reported on as in a small scale research project or an independent study.

Course: ED52

Credit Points: 12 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.

Course: ED26

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.

Course: ED26

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.

Courses: ED23, ED26

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; the psychosocial and cultural perspectives of development and learning in the early childhood years; ecological analysis of early childhood settings impacting on development.

Course: ED26

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.

Course: ED42

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.

Course: ED42

Credit Points: 16

**■ EAB503 TEACHING STRATEGIES FOR CHILD CARE**

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.

Course: ED42

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.

Course: ED42

Credit Points: 16

**■ EAB505 LEARNING TEACHING & INTEGRATED CURRICULUM FOR 3-5 YEARS**

Language and cognitive development; communication with children; early mathematics and science concepts; total program planning implementation and evaluation; integration across content areas involving parents and community.

Course: ED42

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.

Course: ED42

Credit Points: 16

**■ EAB507 EARLY CHILDHOOD LEADERSHIP & MANAGEMENT IN THE SOCIOCULTURAL CONTEXT**

Administration of early childhood services; 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, planning and communication.

Course: ED42

Credit Points: 16

**■ EAB508 FIELD PROJECT (CHILDREN 0-12 YEARS)**

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.

Course: ED42

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;

research methods used to study curriculum and teacher's application of knowledge bases.

**Course:** ED11, ED13

**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; early childhood services for families and children in contemporary Australia; key issues affecting the development of these services, critical analysis of current policies.

**Course:** ED11, ED13

**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.

**Course:** ED11, ED13

**Credit Points:** 12 **Contact Hours:** 3 per week

**■ EAN604 YOUNG CHILDREN, FAMILIES & COMMUNITY**

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; professionals and families.

**Course:** ED11, ED13

**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.

**Course:** ED30

**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 for language and literacy in early childhood programs.

**Course:** ED30

**Credit Points:** 8 **Contact Hours:** 4 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 progress.

**Course:** ED30

**Credit Points:** 8 **Contact Hours:** 4 per week

**■ EAP413 PROGRAM PLANNING & TEACHING STRATEGIES 1**

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; use of time, space and resources.

**Course:** ED30

**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.

**Course:** ED30

**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.

**Course:** ED30

**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.

**Course:** ED30

**Credit Points:** 8 **Contact Hours:** 4 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.

**Course:** ED30

**Credit Points:** 8 **Contact Hours:** 4 per week

**■ EAP418 PROGRAM PLANNING & TEACHING STRATEGIES 2**

Continuation of EAP417.

**Course:** ED30

**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.

**Course:** ED30

**Credit Points:** 8 **Contact Hours:** 3 per week

**■ EAP500 EARLY CHILDHOOD LEADERSHIP & ADVOCACY**

This unit initially reviews the foundations of early childhood services in Australia. The principles of leadership, empowerment plus change are considered along with advocacy for the early childhood field.

**Courses:** ED23, ED61

**Credit Points:** 12 **Contact Hours:** 3 per week

**■ EAP520 EARLY CHILDHOOD DEVELOPMENT & LEARNING**

Techniques for observing and analysing child behaviour; major theories of development and learning;

cognitive, social/emotional, language, physical development and learning in children 2-9 years.

Course: ED20

Credit Points: 8

**EAP521 EARLY CHILDHOOD EDUCATION 1**

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.

Course: ED20

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; emphasises approaches and suitable materials for these curriculum areas within various early childhood settings.

Course: ED20

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.

Course: ED20, ED26

Credit Points: 8

**EAP524 RESEARCH IN EARLY CHILDHOOD**

Examination of the research literature in development and learning; research techniques in early childhood; and their application; 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.

Courses: ED20, ED26

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.

Course: ED20

Credit Points: 12

**EAP526 EARLY CHILDHOOD EDUCATION 3**

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.

Course: ED20

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.

Courses: ED20, ED26

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; the approaches underpinning philosophical and professional practice.

Course: ED22

Credit Points: 12

Contact Hours: 3 per week

**EAP552 FROM PLAY TO DRAMA IN EARLY CHILDHOOD EDUCATION**

The developmental relationship that exists between children's play and drama in early childhood, children's language development through drama; theories/approaches and methods in drama contexts.

Course: ED22

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.

Courses: ED22, ED26

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.

Course: ED22

Credit Points: 12

Contact Hours: 3 per week

**EDB251 PRACTICE TEACHING 1**

Introduction to teaching at the classroom level. Central to the unit 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 with the work of the classroom to obtain an overview of the class teacher's duties.

Course: ED41

Credit Points: 8

**EDB252 PRACTICE TEACHING 2**

The theoretical background gained from the foundational units in the area of learning and development and from applied curriculum areas forms the basis of the knowledge and skills applied in this unit. 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.

Course: ED41

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 year level. 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 assists students to be more effective managers of learning.

Course: ED41

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. The experience widens to encompass both the school and community domains. Wider contexts eg. 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 eg. attendance at P & C meetings is required.

Course: ED41

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.

Course: ED41

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.

Course: ED50

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.

Course: ED50

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.

Course: ED50

Credit Points: 8

#### ■ EDB305 EARLY CHILDHOOD PRACTICES 1

Within the focus of the teacher and children learning together, the following topics will be introduced: the planning cycle; why observe? what/when/how?; techniques of recording observable behaviour with specific emphasis on language and thinking; creating positive language environments; play as a means of learning; basic skills for teachers.

Course: ED52

Credit Points: 12

Prerequisite: EDB323

Contact Hours: 2.5 per week

#### ■ EDB306 EARLY CHILDHOOD PRACTICES 2

Continuing the interactive focus there will be further development of Semester 3 topics in order to deepen understanding and extend teaching strategies.

Course: ED52

Prerequisite: EDB305

Credit Points: 12

Contact Hours: 2.5 per week

#### ■ EDB307 EARLY CHILDHOOD PRACTICES 3

Within the focus of teacher/child decision making, emphasis will be placed on: observing social interactions and children's making of meaning; teaching strategies relating to conflict management and discipline; the monitoring of children's progress; the creation of positive learning environments.

Course: ED52

Prerequisite: EDB306

Credit Points: 12

Contact Hours: 2.5 per week

#### ■ EDB308 EARLY CHILDHOOD PRACTICES 4

Further analysis of the complexities of interactions within learning environments, particularly relating to: Maths/Science; the arts; teaching strategies for the appropriate use of technology within the educational setting; the integrating role of play.

Course: ED52

Prerequisite: EDB307

Credit Points: 12

Contact Hours: 2.5 per week

#### ■ EDB309 EARLY CHILDHOOD PRACTICES 5

Within the focus of negotiation, teacher-child-parent-community, this subject will review and analyse a variety of teaching approaches in early childhood, extending strategies for supporting children's play with a particular emphasis on literature and the arts; recognising emerging professionalism; research skills and independent adult learning.

Course: ED52

Prerequisite: EDB308

Credit Points: 12

Contact Hours: 2 per week

#### ■ EDB310 EARLY CHILDHOOD PRACTICES 6

Synthesis of knowledge gained to date in terms of developing a personal teaching style and philosophy; ethical responsibility; the roles of the teacher as reflective practitioner, action researcher, advocate, administrator and leader; preparing for a teaching career and examining career paths in early childhood.

Course: ED52

Prerequisite: EDB309

Credit Points: 12

Contact Hours: 2 per week

#### ■ EDB311 PROFESSIONAL PRACTICE 1

The school experience program of 20 days provides students with opportunities to continue their observations of educational settings and to apply their professional and discipline studies to the planning, resourcing, teaching and evaluation of a series of related lessons. While observations focus on the development and implementation of school wide curriculum, in the teaching of lessons emphasis is given to formulation of objectives, communication skills, motivation and management of learners, and self evaluation. Students develop their skills in personal and professional relationships within the school community.

Course: ED50

Prerequisite: EDB323

Credit Points: 12

#### ■ EDB312 PROFESSIONAL PRACTICE 2

This 30 day school experience program concentrates on developing those generic skills needed for teaching units of work effectively. It challenges students to

cater for the individual learning styles of their pupils by incorporating a rich variety of teaching strategies and classroom management approaches in their unit planning and implementation. The further consolidation of the teaching role of teachers enables students to extend their interests in teachers' broader professional roles in areas such as pastoral care and collegial decision making. Students are expected, through analysis and reflection, to promote praxis between their study of Education and Curriculum subjects and their school and teaching experiences.

**Course:** ED50 **Prerequisite:** EDB311  
**Credit Points:** 12

#### ■ EDB313 PROFESSIONAL PRACTICE 3

This program of 20 days in conjunction with the 10 days school experience of Professional Practice 4 is the final practice teaching component of the Bachelor of Education course. Aims to extend confidence and competence in the teachers' roles to a level commensurate with entry to successful beginning teaching. This program subsequently immerses students in the real world of teaching. Students assume, as far as practicable, full responsibility for units of work from planning through to assessment. In addition, students are challenged to involve themselves fully in the organised day-to-day activities of the school that draw upon their teaming and other professional skills such as self-evaluation and critical reflection.

**Course:** ED50 **Prerequisite:** EDB312  
**Co-requisite:** Curriculum Studies 2A/2B  
**Credit Points:** 12

#### ■ EDB314 PROFESSIONAL PRACTICE 4

This unit is structured so that integration is achieved between an on-campus program and an equivalent two weeks' off-campus experience in practising schools. It aims to promote students' conceptualisation of their final practice teaching experience as a trial at beginning teaching with the collection of primary data (eg. interviews, reflective journals) and the progressive application of selected educational frameworks, eg. the developmental nature of teachers' professional practice, analysis of 'beginning-experienced' teaching, empirical research, decision-making and planning. Students examine the total role of the beginning teacher within the ecology of various school systems.

**Course:** ED50 **Prerequisite:** EAB313  
**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ EDB315 TEACHERS AS COMMUNICATORS AND PROFESSIONAL PRACTICE 1

This unit, the first of five in the professional practice strand, is concerned with communication at various levels and in a range of contexts. Its focus is directed towards individuals and groups of learners in the primary school. The unit is operationalised on a 1 hour/week class on campus and 15 single days (1 introduction and 1 day/week) in schools.

**Course:** ED51 **Prerequisite:** EDB323  
**Credit Points:** 12

**Contact Hours:** 1 hour per week and 1 day per week in Schools plus 1 day of initial contact.

#### ■ EDB316 TEACHERS AS MANAGERS & PROFESSIONAL PRACTICE 2

This unit is the second of five in the Professional Practice Strand. Its foci are on the management of planning, implementation and evaluation in the classroom as well as on the relationship of management and classroom climate and control.

**Course:** ED51

**Credit Points:** 12

**Contact Hours:** 1 hour per week and 1 day per week on schools plus 1 day of initial contact.

**Prerequisite:** EDB315

#### ■ EDB317 TEACHERS AS CURRICULUM DECISION MAKERS & PROFESSIONAL PRACTICE 3

This unit allows students to examine aspects of curriculum decision making and to acquire the knowledge, skills and processes necessary for short term and long range planning. Curriculum development, curriculum implementation, and curriculum evaluations are investigated to refine daily, weekly and term programs. State and Federal initiatives in curriculum are assessed so that classroom teachers can confidently interpret curricula for the needs and capabilities of diverse groups of learners. The block practice component of the subject provides opportunities to design, test and refine personal decision-making models, approaches, strategies and programs.

**Courses:** ED51, EDB316 **Credit Points:** 12  
**Contact Hours:** 1 per week and 3 week block

#### ■ EDB318 TEACHERS AS RESPONSIVE PRACTITIONERS & PROFESSIONAL PRACTICE 4

This unit, the fourth of the Professional Practice Strand, is concerned with responding effectively to the many and varied teaching/learning contexts within today's classrooms and schools. Its focus is directed from transitional/open classroom to the wider communities encompassing state/private, rural/distance and aboriginal/migrant education.

**Course:** ED51 **Prerequisite:** EDB317  
**Credit Points:** 12

**Contact Hours:** 1 hour per week and 3 week block in schools following Easter vacation.

#### ■ EDB319 TEACHERS AS REFLECTIVE PRACTITIONERS & PROFESSIONAL PRACTICE 5

Prior to graduation, students need to synthesise the range of skills attitudes and knowledge sources that they have experienced through the course, to ensure an effective transition into professional practice. This subject attempts to pursue this goal through further developing teachers as reflective practitioners, taking responsibility for the shaping of educational practice from their own perspective.

**Course:** ED51 **Prerequisite:** EDB318  
**Credit Points:** 12

**Contact Hours:** 1 hour per week and 3 week block in schools following September vacation.

#### ■ EDB321 EDUCATION IN CONTEXT

Education and change in a postmodern 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.

**Courses:** ED50, ED51, ED52  
**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ EDB322 HUMAN DEVELOPMENT & EDUCATION

Life span development for students interested in early childhood, primary, secondary, or adult education. Theoretical perspectives on human development; social, emotional and moral development; physical and motor development; cognitive and language development; current issues in human development.

**Courses:** ED50, ED51, ED52  
**Credit Points:** 12 **Contact Hours:** 3 per week



### ■ EDB323 INTRODUCTION TO PROFESSIONAL PRACTICE IN EDUCATION

The nature of teaching, and the role of teachers are studied using curriculum decision-making and critically reflective frameworks. Teaching is viewed as a complex personal and social process which is highly interactive, while the role of the teacher is elaborated with reference to the concepts of the teacher as observer, communicator and facilitator of learning.

Courses: ED50, ED51, ED52

Credit Points: 12 Contact Hours: 3 per week

### ■ EDB324 LANGUAGE, TECHNOLOGY & EDUCATION

Foundational perspectives on language, technology and communication in educational contexts; language as functional system and social semiotic; educational implications of the interconnections among language, technology, discourse and power; the student as reader and writer of academic prose; introduction to the language and technology of instruction.

Courses: ED50, 51, 52

Credit Points: 12 Contact Hours: 3 per week

### ■ EDB325 PSYCHOLOGY OF LEARNING & TEACHING

This unit addresses theories of learning, together with related ideas and concepts, and their implications for educators, especially in terms of their capacity to respond to the needs of all learners and to design, organise and manage environments for learning.

Courses: ED50, 51, 52

Credit Points: 12 Contact Hours: 3 per week

### ■ EDB326 SOCIOLOGICAL & PHILOSOPHICAL ANALYSIS OF EDUCATIONAL PRACTICE

By using the educational disciplines of sociology and philosophy, this subject examines the social, cultural, historical and political contexts of schooling; technologies, practices and strategies employed by schools; the curriculum as a contested site; the place of schooling in the modern state. It encourages critical reflection by students and allows them to engage with others as co-theorists in pedagogical work.

Courses: ED50, ED51, ED52

Credit Points: 12 Contact Hours: 3 per week

### ■ EDB330 INDEPENDENT STUDY

Self-initiated and self-directed study in an area of interest which allows study either to a depth not possible in elective units or in an area not covered by the current Bachelor of Education (Pre-Service) course. An Independent Study can be undertaken by any student who has successfully completed 6 semesters of the pre-service BEd or equivalent. Students must meet certain requirements laid down in the *Independent Study Guide* (QUT) available from the Faculty of Education. Students cannot enrol without the written approval of the Course Coordinator.

Courses: ED50, ED51, ED52

Credit Points: 12 Contact Hours: 3 per week

### ■ EDB331 LEARNING/TEACHING ENVIRONMENTS

This unit enables students to: develop an understanding of the environmental context for learning/teaching; appreciate the range of learning environments in education; develop an understanding of how people interact in different learning environments; and offer opportunities to design learning experiences for people in non-formal learning contexts.

Courses: ED50, ED51, ED52

Credit Points: 12 Contact Hours: 3 per week

### ■ EDB333 DEVELOPING COOPERATIVE ENVIRONMENTS FOR DIVERSE LEARNERS' NEEDS

This unit reviews and extends knowledge about managing learners to meet their needs in purposive and responsive learning environments. It encourages a reflective and research oriented evaluation of topics which include managerial, environmental and educational conceptions of developing positive relations, teaching for motivation, and contemporary models, structures and frameworks for decision-making, relating to cooperative learning environments.

Courses: ED50, ED51, ED52

Credit Points: 12 Contact Hours: 3 per week

### ■ EDB334 GIFTED LEARNERS

This unit provides a framework for understanding and evaluating the needs of gifted learners. It emphasises identification, learning and teaching styles, sound emotional issues, research findings and resources associated with gifted learners. Provision is also made for some practicum work with gifted learners.

Courses: ED50, ED51, ED52

Credit Points: 12 Contact Hours: 3 per week

### ■ EDB336 ABORIGINAL & TORRES STRAIT ISLANDERS, PAST & PRESENT

This introductory unit is designed to give students a basic understanding and awareness of Murri and Torres Strait Islander cultures. Throughout the unit, students will be provided with a holistic approach to learning about the main features of both traditional and contemporary cultures. This knowledge would enhance and assist the individual's ability to develop effective relationships with the Murri and Torres Strait Islander communities.

Course: ED51

Credit Points: 12 Contact Hours: 3 per week

### ■ EDB337 ISSUES IN ABORIGINAL & TORRES STRAIT ISLANDER CULTURE

This unit will continue to develop students' knowledge about Murri and Torres Strait Islander people, historically, socially and culturally in relation to these changes and will give them the opportunity to explore and investigate areas of interest.

Course: ED51

Credit Points: 12 Contact Hours: 3 per week

### ■ EDB338 MURRI & TORRES STRAIT ISLANDER STUDIES: AN INTEGRATED PERSPECTIVE

This unit is intended for students who already have a solid grounding in Aboriginal and Torres Strait Islander history and culture and who have an understanding of the issues that concern Murri and Torres Strait Islander people today. Students will have the opportunity to develop a deeper understanding of the complexities of the cultures of these two distinct groups and to examine and evaluate issues of concern relevant to their areas of interest.

Course: ED51

Credit Points: 12 Contact Hours: 3 per week

### ■ EDB440 INDEPENDENT STUDY

Self-initiated and self-directed academic study in an area of educational management interest which allows study either to a depth not possible in electives, or in an area not covered by the course; for requirements see the *Independent Study Guide*.

Courses: ED23, ED26

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

#### ■ EDB490 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.

**Courses:** ED23, ED24, ED25, ED26, ED50, ED51, ED52

**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.

**Courses:** ED11, ED13, ED61

**Co-requisite:** EDN601

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ EDN601 MAJOR ISSUES IN EDUCATION

This unit uses conceptual frameworks - well-documented perspectives which can be used to generate questions and provide methods for their exploration - as tools in the analysis of current educational debates. These frameworks are used to broaden and sharpen an individual's perspective and act as a basis for improving practice. It also supports the development of skills in accessing and presenting academic arguments.

**Courses:** ED11, ED13, ED61

**Co-requisite:** EDN600

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ EDN602 ADVANCED SEMINARS

Students to participate in a unit organised around a particular interest or a visiting expert.

**Course:** ED13

**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.

**Course:** ED13

**Credit Points:** 12

#### ■ EDN604 DISSERTATION STAGE 1

Opportunity to extend and synthesise knowledge from the core and area of interest units in either a critical evaluation of a topic in the literature of the student's area of interest or the development of appropriate educational resources.

**Course:** ED13      **Prerequisites:** EDN600, EDN601

**Credit Points:** 12

#### ■ EDN606 DISSERTATION STAGE 2

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.

**Course:** ED13      **Prerequisites:** EDN600, EDN601

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ EDN615 THESIS 1

Provides students with an opportunity to extend and synthesise knowledge from a particular area of interest into a research study; allows the skills and understandings gained from coursework units to be employed in a practical situation.

**Course:** ED13      **Prerequisites:** EDN600, EDN610

**Credit Points:** 12

#### ■ EDN616 THESIS 2

See EDN615.

**Course:** ED13

**Prerequisites:** EDN600, EDN601, EDN615

**Credit Points:** 12

#### ■ END617 THESIS 3

See EDN615.

**Course:** ED13

**Prerequisites:** EDN600, EDN601, EDN615, EDN616

**Credit Points:** 12

#### ■ EDN618 THESIS 4

See EDN615.

**Course:** ED13

**Prerequisites:** EDN600, EDN601, EDN615, EDN616, EDN617

**Credit Points:** 12

#### ■ EDP410 PRACTICE TEACHING 1

Participation in two early childhood settings with 12 days in each. Emphasis on observation, planning, implementing, evaluating and record-keeping.

**Course:** ED30

**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.

**Course:** ED30

**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. Initiative and individuality in lesson and unit planning and implementation.

**Course:** ED31

**Credit Points:** 8

**Contact Hours:** 4 weeks

#### ■ EDP413 PRACTICE TEACHING 2

Knowledge gained from indepth contextual studies and curriculum and professional studies is used to prepare a total program of work. This is partially implemented in weeks one and two and fully implemented in weeks three and four. School and community domains in preparation for beginning teaching.

**Course:** ED31

**Prerequisite:** EDP412

**Credit Points:** 8

**Contact Hours:** 4 weeks

#### ■ EDP450 TEACHING PRACTICE A

Allows students in school settings to plan, resource, teach and evaluate single lessons in their curriculum areas to mixed ability classes; students 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 units.

**Course:** ED32 **Co-requisites:** CPP410, LEP410

**Credit Points:** 6

**Contact Hours:** Four weeks block + one single day

#### ■ EDP451 TEACHING PRACTICE B

The field studies component of the second semester units 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 unit 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 involve themselves fully in the organised day-to-day activities of the school.

**Course:** ED32

**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 early childhood; communication with children, parents and colleagues; the demonstration of organisational and administrative skills in an early childhood setting.

**Course:** ED20

**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.

**Course:** ED20

**Prerequisite:** EDP510

**Credit Points:** 8

#### ■ EDP512 POLICIES & PRACTICES IN EDUCATIONAL MANAGEMENT

Explores the nature of educational policies in Australia; analyses policies to consider social and political influences; addresses educational practices in relation to current policies at various government and organisational levels.

**Courses:** ED23, ED61

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ EDP513 EDUCATIONAL SERVICES MANAGEMENT

Focuses on leadership roles by identifying various leadership skills and effective communication styles. The understanding and facilitation of change will be explored. Consulting, advocacy and empowerment strategies will be identified.

**Courses:** ED23, ED61

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ EDP514 EDUCATIONAL MANAGEMENT FIELD PROJECT

An applied action research project focussing on the development of a management-oriented program; the delivery and evaluation of the program within an existing educational service.

**Course:** ED23

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ EDP515 HUMAN RESOURCE MANAGEMENT IN EDUCATION

This unit investigates staff supervision and appraisal; staff development planning, implementation and evaluation; facilitative skills.

**Courses:** ED23, ED61

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ EDP601 THE REFLECTIVE PRACTITIONER IN HIGHER EDUCATION

Develops critical, reflective and proficient tertiary educators with a commitment to learning as a lifelong process; begins with and builds upon the various experiences which the participants bring with them.

**Course:** ED61

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ EDP602 ADULT LEARNING & TEACHING IN HIGHER EDUCATION

It is necessary to have a broad understanding of the theory and practice of teaching adults and critically reflect on the appropriateness of particular approaches to the needs, interests and learning styles of adult audiences; involves the application of theoretical perspectives to the practice of teaching adults in varied higher education and contexts.

**Course:** ED61

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ EDP603 HIGHER EDUCATION IN AUSTRALIA: CONTEXT & ISSUES

History of higher education in Australia; current structure and funding of higher education in Australia; major stakeholders and key institutional interfaces; professional associations, TAFE, secondary education, industry, student groups, government.

**Course:** ED61

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ EDP604 PROGRAM DESIGN & EVALUATION IN HIGHER EDUCATION

Identifies and describes the major theoretical underpinnings of educational planning and evaluation; trace the historical shifts within the practice of course design and evaluation; demonstrate skills in evaluation and subsequent planning for course integration; and demonstrate skills in critical analysis of evaluation designs and procedures.

**Course:** ED61

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ EDR700 ADVANCED SEMINARS IN INTERDISCIPLINARY STUDIES IN EDUCATION

Aims to broaden and deepen the student's initial perspective to include elements derived from theoretical perspectives drawn from a number of disciplines; seeks to provide a context for learning for educators who seek the personal and professional benefits that the broadening and deepening of their professional knowledge affords. Includes negotiated seminars program, interdisciplinary study of education, a reading program and presentation of colloquia involving for-

mulation and defence of positions within the context of a community of scholars.

Course: ED11

Credit Points: 48 Contact Hours: 3 per week

#### ■ EDR701 ADVANCED SEMINARS IN APPLIED EDUCATIONAL RESEARCH

Prepares students for the presentation of a thesis and provides breadth of knowledge in the application of research within the candidate's applied focus; provides experienced educators with advanced programs of study in research methods; the application of research methods to professional practice.

Course: ED11

Prerequisite: EDN600 or equivalent

Credit Points: 48 Contact Hours: 3 per week

#### ■ EDR702 DISSERTATION

Provides students with an opportunity to extend and synthesise knowledge from the coursework section; allows the coursework to be applied in a manner that reflects how it might be used in future work situations; provides a means of extending the skills and understandings gained from formal units to investigate in depth some aspects of the student's professional practice. Focuses on the extension of acquired knowledge to increase the understanding and competence of skilled professional educators; facilitates the application of innovative research but grows out of the professional coursework.

Course: ED11 Prerequisites: EDR700, EDR701

Credit Points: 144

#### ■ 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; AC theory, errors in measurement, traceability of measurement.

Courses: CE42, EE43, EE44, IF23, IF53, ME23, ME45

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; students must submit an industrial experience record which has been completed by both the student and the employer.

Course: EE43

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; rotating electrical machines.

Courses: EE43, EE44, IF23, IF53, ME45,

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.

Courses: EE43, EE44, IF23 Prerequisite: EEB101

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.

Courses: EE43, EE44 Contact Hours: 5 weeks

#### ■ EEB209 ELECTRICAL ENGINEERING 2M

Introduction to the basic principles of microprocessors, microprocessor systems, electrical machines, power control and tariffs; basic level of presentation with heavy emphasis on practical applications.

Course: ME45

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.

Courses: EE44, IF23, IF53

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.

Course: ME45

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.

Courses: EE44, IF23

Prerequisites: EEB202, EEB203

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.

Courses: EE43, EE44, IF23

Prerequisites: EEB203, MAB193

Co-requisite: MAB493

Credit Points: 8 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.

Courses: EE43, EE44, IF23

Prerequisites: EEB303, MAB193

Co-requisite: MAB493

Credit Points: 7 Contact Hours: 3 per week

#### ■ EEB371 ELECTRONIC DEVICES

Theory of operation and characteristics of semiconductor devices: diodes, the bipolar junction transistor and the field effect transistor; development and practical applications of small signal models.

Courses: EE43, EE44, IF23 Prerequisite: EEB101

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.

Courses: EE44, IF23, IF53

Prerequisite: EEB272

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; sequential machinery using PROMs, GALs, etc.

Course: EE43

Credit Points: 6 Contact Hours: 3 per week

**■ EEB400 ELECTRICAL POWER SYSTEMS**

Introduction to electrical power systems calculations; technology of overhead lines and cables; elementary electrical engineering economics.

Course: EE44

Prerequisite: EEB302

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; non-linear analysis techniques for simple networks.

Courses: EE43, EE44, IF23

Prerequisite: EEB303 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.

Course: EE44

Prerequisite: EEB302

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.

Course: EE44

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; students must submit an industrial experience record form which has been completed by both the student and the employer.

Course: EE43

Contact Hours: 5 weeks

**■ EEB430 ENGINEERING FIELDS**

Electrostatic and magnetic fields, Maxwell's Equations and electromagnetic waves.

Courses: EE43, EE44 IF23

Prerequisites: MAB193, PHB132, PHB232

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.

Courses: EE43, EE44, IF23 Prerequisite: EEB371

Credit Points: 8 Contact Hours: 3 per week

**■ EEB473 INTEGRATED CIRCUITS**

The fundamental theory of operation of integrated circuits; the generalised concepts of feedback in electronic circuits; various operational amplifier configurations; oscillators and timing circuits.

Courses: EE43, EE44, IF23 Prerequisite: EEB471

Credit Points: 6 Contact Hours: 3 per week

**■ EEB474 MICROPROCESSORS**

Microprocessor architecture, instruction sets, assembly language programming; memories, input/output devices and interrupt systems.

Courses: EE43, EE44, IF23, IF53

Prerequisite: EEB372

Credit Points: 6 Contact Hours: 3 per week

**■ EEB520 CONTROL ENGINEERING**

Measurement transducers, amplifiers, signal processors and final control elements; system components; application of micro-computers to closed-loop control; examples of closed-loop systems; system transfer function and time domain performance.

Courses: EE43, EE44, IF23

Prerequisite: EEB302

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.

Course: EE44

Prerequisite: EEB400

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.

Course: EE44

Prerequisite: EEB400

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.

Courses: EE43, EE44, IF23

Prerequisites: MAB193

Co-requisites: EEB303, MAB493

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.

Courses: EE43, EE44, IF23

Prerequisites: EEB361, EEB430

Credit Points: 6 Contact Hours: 3 per week

**■ EEB573 INDUSTRIAL ELECTRONICS**

Modern electronic devices and circuits with particular emphasis on industrial application.

Courses: EE44, IF23

Prerequisite: EEB471

Credit Points: 6 Contact Hours: 3 per week

**■ EEB580 AEROSPACE DESIGN 1**

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); 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.

**Course:** EE43

**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.

**Courses:** EE44, IF23

**Prerequisites:** EEB361, EEB400, EEB401,

**Credit Points:** 6      **Contact Hours:** 3 per week

#### ■ EEB591 SYSTEMS PROGRAMMING LANGUAGES

Introduction to embedded systems and software design using C, C++ and object oriented Pascal; engineering applications for embedded systems.

**Courses:** EE44, IF23

**Prerequisite:** EEB474

**Credit Points:** 6      **Contact Hours:** 3 per week

#### ■ EEB600 STARTING A TECHNOLOGY BASED BUSINESS

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, networking.

**Courses:** EE44, ME45

**Credit Points:** 4      **Contact Hours:** 2 per week

#### ■ EEB601 REAL-TIME 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.

**Courses:** EE43, EE44, IF23

**Prerequisite:** EEB591

**Credit Points:** 6      **Contact Hours:** 3 per week

#### ■ EEB602 SIGNAL PROCESSING

Develop techniques for the analysis of stationary random signals in linear systems. Review of probability theory and statistics; stochastic processes; correlation functions; power density spectrum; random signals and linear systems; matched filters; detection and estimation theory; overview of practical applications.

**Courses:** EE43, IF23

**Prerequisites:** EEB361, EEB401, MAB893

**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.

**Course:** EE44

**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.

**Course:** EE43

**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.

**Courses:** EE43, EE44, IF23

**Prerequisite:** EEB520

**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; system non-linearities and non-linear system analysis and design; examples of typical control systems.

**Courses:** EE44, IF23

**Prerequisite:** EEB620

**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; quasisquare and PWM invertors for induction and synchronous motor control; static switches for induction motor soft start control and static VAR compensation; induction motor drive and DC motor drive control strategies; harmonic analysis and waveform modelling analysis.

**Course:** EE44

**Prerequisite:** EEB573

**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.

**Courses:** EE44, IF23

**Prerequisites:** EEB361, MAB493

**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, antennas, antenna arrays, computer-aided antenna design, antenna measurements.

**Courses:** EE43, EE44

**Prerequisite:** EEB562

**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.

**Course:** EE43

**Prerequisites:** EEB400, EEB561, EEB580, EEB620

**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 used in the aerospace industry.

**Course:** EE43

**Prerequisite:** CSB490

**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; tracking data; payload techniques; upper atmospheric meteorology and astronomy.

Course: EE43

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.

Course: EE43 Co-requisite: EEB947

Prerequisites: MEB551, MEB553, MEB611

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.

Course: EE44 Prerequisite: EEB531

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.

Course: EE44 Prerequisite: EEB531

Credit Points: 7 Contact Hours: 3 per week

**■ EEB761 STATISTICAL COMMUNICATION**

PCM quantisation noise in uniform and non-uniform quantisation; effects of channel noise on S/N; delta and delta-sigma modulations; threshold extensions, spread spectrum, matched filtering and correlation.

Courses: EE44, IF23 Prerequisite: EEB661

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.

Course: EE43

Prerequisites: EEB474, EEB602, EEB680

Co-requisites: EEB947, MEB790

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 topic is selected from aerospace engineering and involves electronics, computing, control, communication and

electrical power; it may include programming, circuit and system design.

Course: EE43

Credit Points: 27 Contact Hours: 6 per week

**■ EEB788 DESIGN 2**

Design principles and practice of more complex electronic circuits; electrical equipment and systems.

Courses: EE44, IF23

Prerequisites: EEB400, EEB520, EEB561, EEB587

Credit Points: 8 Contact Hours: 3 per week

**■ EEB789 PROJECT**

An individual engineering project on a specified topic will be completed; the work will require, design, computing, construction, experimental work and practical testing with the submission of appropriate reports; the topic will be selected from any area which involves electronics, computing, control, communication and educational power and may include programming, circuit and system design.

Courses: EE44, IF23

Co-requisites: This unit must be done in the final year of the course.

Credit Points: 30 Contact Hours: 6 per week

**■ EEB820 ENGINEERING MANAGEMENT**

Economic analysis of electrical engineering projects; present worth and annual cost calculations. Assessment of tenders; project management, critical paths and linear programming methods; contract administration. Engineering case studies.

Courses: EE44, IF23

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 at both prototype and full production stages.

Courses: EE44, IF23

Prerequisites: EEB587, EEB788

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.

Course: EE44

Credit Points: 7 Prerequisite: EEB531

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.

Course: EE43

Credit Points: 7 Prerequisite: EEB780

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.

Course: EE44, IF23

Prerequisites: EEB400, EEB474, EEB531, EEB602, EEB620, EEB788 or EEB971

Co-requisite: EEB742 or EEB968

Credit Points: 6 Contact Hours: 3 per week

### ■ EEB888 DESIGN 4

System design techniques and practice on typical electronic systems and power systems, taking into account such factors as realisability, reliability, complexity, economic considerations and optimisation.

Course: EE44, IF23

Prerequisite: EEB887

Credit Points: 10 Contact Hours: 3 per week

### ■ EEB890 ADVANCED INFORMATION TECHNOLOGY TOPICS

Content depends on current technology and availability of suitable specialist lecturers; could include artificial intelligence, computer graphics, database systems, computer-aided engineering, super computing and parallel processing.

Course: EE44

Prerequisite: EEB591

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.

Course: IF23

Contact Hours: 5 weeks

### ■ EEB902 INDUSTRIAL EXPERIENCE 2

See EEB901.

Course: IF23

Contact Hours: 5 weeks

### ■ EEB903 INDUSTRIAL EXPERIENCE 3

See EEB902.

Course: IF23

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.

Courses: EE44, IF23

Prerequisites: EEB620, EEB621

Credit Points: 7 Contact Hours: 3 per week

### ■ EEB932 AUTOMATIC FLIGHT CONTROL

Derivation of transfer functions for aircraft and missiles including effects of vibration 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.

Course: EE43

Co-requisite: EEB947

Prerequisites: MEB551, MEB553, MEB611

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; infrared 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.

Course: EE43

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 the Global Positioning System (GPS); position fixing using GPS.

Course: EE43

Co-requisite: EEB947

Prerequisites: EEB561, EEB562, EEB662, EEB968

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.

Course: EE43

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.

Course: EE43

Prerequisites: EEB561, EEB562, EEB662, EEB968

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.

Course: EE44

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.

Course: EE44

Prerequisite: EEB553

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. Uninterruptible power supplies (UPS); induction heating; high frequency switching technology in variable speed AC drives; power electronic physical layout considerations.

Courses: EE44, IF23

Credit Points: 7      Contact Hours: 3 per week

### ■ EEB956 PHOTOVOLTAIC ENGINEERING

This unit deals with the various aspects of photovoltaic systems including flat panel and concentrating solar cell arrays, series-parallel connection for optimal array design, array measurements, power conditioning, load management, energy storage, system costs, and balance, of sub-systems.

Course: EE44

Prerequisite: EEB587      Co-requisite: EEB400

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.

Courses: EE44, IF23

Prerequisite: EEB661

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: non-linear networks and ferrites; array theory and design, microwave antennae.

Courses: EE44, IF23

Prerequisite: EEB662

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.

Courses: EE43, EE44, IF23

Credit Points: 6      Contact Hours: 3 per week

### ■ EEB968 DIGITAL SIGNAL PROCESSING

Adaptive digital filtering and applications, spectral estimation techniques, speech analysis and synthesis; implementation of signal processing systems.

Courses: EE43, EE44, IF23      Prerequisite: EEB602

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 to signal detection and classification.

Courses: EE44, IF23

Prerequisite: EEB968

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; errors and quality of design.

Courses: EE44, IF23

Prerequisite: EEB573

Credit Points: 6      Contact Hours: 3 per week

### ■ EEB972 INTEGRATED ELECTRONIC TECHNIQUES

Commercially available integrated circuits and their typical applications in industry; design rules, limitations and methods of VLSI fabrication.

Courses: EE44, IF23

Prerequisite: EEB573

Co-requisite: EEB602

Credit Points: 7      Contact Hours: 3 per week

### ■ EEB980 AEROSPACE LAW

Aviation law, 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.

Course: EE43

Credit Points: 7      Contact Hours: 3 per week

### ■ EEP101 ALGORITHMS FOR CONTROL & SIGNAL PROCESSING

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.

Courses: EE65, EE75

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.

Courses: EE65, EE75

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.

Courses: EE65, EE75

Credit Points: 12      Contact Hours: 3 per week

### ■ EEP104 REAL-TIME OPERATING SYSTEMS

Definition and review of real-time operating systems; detailed examination of the structure of real-time operating system; the development of programming skills, orientated towards real-time applications; programming exercises for real-time applications using assembler and high-level languages.

Courses: EE65, EE75

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 three to seven; protocols, software and packages and the computers which support these layers; a lighter treatment of layers one and two is given.

Course: EE65

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.

Course: EE65

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.

Course: EE65

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; robots, computer numerically controlled machine tools, distributed process control, networks and computers.

Course: EE65

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.

Course: EE65

Credit Points: 12      Contact Hours: 3 per week

### ■ EEP125 ADVANCED ENGINEERING SOFTWARE TOOLS

Numerical techniques and computer software tools in procedural and non-procedural languages as well as specialised commercial applications packages for the analysis and design of data transmission systems.

Course: EE65

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.

Course: EE75

Credit Points: 48      Contact Hours: 168 total hours

### ■ 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, operation and characteristics of AC and DC machines; costs of electricity tariffs.

Course: EE22

Prerequisite: EET211

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.

Course: EE22

Prerequisite: EET211

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.

Course: EE22

Prerequisites: EET100, EET211

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.

Course: EE22

Credit Points: 7      Contact Hours: 3 per week

### ■ EET500 ELECTRICAL TECHNOLOGY

Introduction to electric motors, generators, transformers and three phase systems.

Course: ME23

Credit Points: 6      Contact Hours: 3 per week

### ■ EET522 CONTROL SYSTEMS 2

Process control system terminology and symbols; review of hardware; chart recorders; sizing of control valves; measurement of mass flowrate, humidity and chemical composition; analogue data transmission standards; three term controllers and other 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, machine control systems.

Course: EE22

Prerequisite: EET420

Credit Points: 7      Contact Hours: 3 per week

### ■ EET560 COMMUNICATIONS ENGINEERING 1

Advanced signal analysis using Fourier methods; AM generation and detection, the effects of filtering and noise; FM and PM generation and demodulation, effects of noise, FM threshold, SSB methods; phase locked loop principles; radio receiver circuits, double conversion, spurious responses; pulse analogue modulation, PAM, PWM, PPM, circuits and spectra.

Course: EE22

Prerequisites: EET270, EET460

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.

Course: EE22

Prerequisite: EET270

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.

Course: EE22

Prerequisites: CST390, EET676

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.

Course: EE22 Prerequisite: EET350  
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.

Course: EE22 Prerequisite: EET350  
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.

Course: EE22 Co-requisites: EET270  
Credit Points: 7 Contact Hours: 3 per week

#### ■ EET678 APPLIED ELECTRONICS

The integrated circuit approach to electronic systems design; the unit 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.

Course: EE22 Prerequisite: EET570  
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.

Course: EE22 Prerequisites: CST390, EET676  
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.

Course: EE22 Prerequisite: EET420 Co-requisite: EET522  
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; optical fibre technology.

Course: EE22 Prerequisite: EET460  
Credit Points: 7 Contact Hours: 3 per week

#### ■ EET753 TESTING & COMMISSIONING TECHNIQUES

The philosophy of testing quality assurance and 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.

Course: EE22 Prerequisite: EET350  
Credit Points: 7 Contact Hours: 3 per week

#### ■ EET760 COMMUNICATIONS ENGINEERING 2

Sampling, reconstruction, spectra; quantisation, dynamic range and noise; PCM methods and circuitry, companding; delta modulation; digital transmission, TDM, FDM, modulation methods; error correction and data communication protocols.

Course: EE22 Prerequisite: EET560  
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.

Course: EE22 Prerequisite: CST390  
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.

Course: EE22 Prerequisite: EET642  
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.

Course: EE22 Prerequisites: EET570, EET676  
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 transducers.

Course: EE22 Prerequisite: EET570  
Credit Points: 7 Contact Hours: 3 per week

#### ■ EET880 DESIGN

The main concepts of electrical design and introduction to relevant specifications and standards; further work is in the form of design projects in which a written report must be submitted.

Course: EE22 Prerequisites: Major units 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 collections supervisory and active control functions; real-time operating systems and

software development in both low-level languages and high-level languages such as C or MODULA 2.  
**Course:** EE22 **Prerequisite:** CST390  
**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.

**Course:** BS50 **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.

**Course:** BS50  
**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 a 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.

**Course:** BS50 **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 applications in economics; simultaneous equation methods, identification problems; estimation methods such as indirect least square, two stage least squares and three stage least squares.

**Course:** BS50 **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; portfolio selection, marketing, 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.

**Course:** BS50  
**Prerequisite:** MAB152 Introductory Statistics (Administrative Research), EPB140, EPB150  
**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ EPB105 ASIAN ECONOMIC DEVELOPMENT

Economic change in Asia and the evolution of the Asia-Pacific region; the development of the Japanese economy post 1868; the rise of the NICs ASEAN and South East Asia and Japanese economic policies.

**Course:** BS50  
**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ EPB106 AUSTRALIAN ECONOMIC HISTORY

The Australian economy and its economic institutions from the 1890's 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 1970's and the opportunities presented by the development of the Pacific Basin; the future for Australia.

**Courses:** BS50, ED50, NS48  
**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.

**Course:** BS50 **Prerequisite:** EPB102, EPB104  
**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ EPB108 BUSINESS IN ASIA

The business and cultural environments 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.

**Course:** BS50  
**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ EPB109 BUSINESS METHODOLOGY

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 should also have completed the bridging course in statistics.

**Courses:** BS50, IF53 **Prerequisite:** ISB892  
**Incompatible with:** EPB110  
**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ EPB110 BUSINESS STATISTICS

Hypothesis testing, 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 statgraphics package.)

**Courses:** BS50, IF31 **Prerequisite:** ISB892  
**Incompatible with:** EPB101  
**Credit Points:** 12 **Contact Hours:** 3 per week

**■ EPB111 COMPARATIVE ECONOMIC SYSTEMS**

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; the role of the state in the market economy; socialist economic reforms; structural change and economic development; convergence.

**Courses:** BS50, ED50

**Prerequisites:** EPB140, EPB150

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ EPB112 CRITICAL ANALYSIS**

The anatomy of valid argument in the social sciences, argument analysis from premise to conclusion; examination of causes, fallacies in argument to foster a critical stance; application of the fundamentals of reasoning to organisation principles; rule making issues and the enforcement problem; strategies for change; dealing with clients; responding to rhetoric.

**Courses:** BS50, NS48

**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 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 institutional and structural analyses to provide a better understanding of the problems.

**Courses:** BS50, ED50

**Prerequisites:** EPB140, EPB150

**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.

**Course:** BS50

**Prerequisites:** EPB104, EPB142, EPB152

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ EPB116 ECONOMIC PRINCIPLES**

The economic problem and its basis in 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.

**Courses:** BS50, IF53, NS48

**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 EPB142. Analysis is extended to concentration measures, pricing be-

haviour, contestable markets, multi-product firms, control of pricing practices, the Trade Practices Act.

**Course:** BS50

**Prerequisite:** EPB152

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ EPB120 EUROPEAN ECONOMIC HISTORY**

The emergence and spread of industry; Europe's involvement with the world economy; international movements of capital and technology; developments in manufacturing; agriculture; minerals and energy.

**Course:** BS50

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ EPB121 EUROPEAN INTEGRATION**

The history of European integration post World War II; survey and analysis of the major economies and the European institutional framework emphasis on current issues, the impact of changes in Eastern Europe and Australia's relationship with the new Europe.

**Course:** BS50

**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: the 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).

**Courses:** BS50, IF52, IS43, IT20, LW31, NS48

**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, manufacturing, the transport sector, resource development, and finance; science and technology.

**Course:** BS50

**Prerequisites:** EPB124 and one of EPB140,

EPB150 or EPB116 or, for postgraduates, EPN102

**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 consumerism.

**Course:** BS50

**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 particularly after the dollar was floated in December 1983. 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, balance of payments theories, the EC, ASEAN, the economics and monetary effects of the 1990 re-unification of Germany, international monetary reform. This unit is not available to students who have completed or are studying EPB132.

Course: BS50 Prerequisites: EPB142, EPB152  
Credit Points: 12 Contact Hours: 3 per week

### ■ EPB131 INTERNATIONAL POLITICS & BUSINESS

Australian business exists within a vitally important international environment whose structure, especially as regards access to various national markets, is particularly determined by national governments and a range of international agreements entered into by those governments. This unit examines the international political system and its impact upon business; the major actors in the system, with an emphasis upon the bilateral and multilateral agreements of major impact for Australian business; security, production, finance, transport, trade, energy, and transnational organisations; the place of Australia in the system; regions of central interest to Australian business.

Courses: BS50, NS48  
Credit Points: 12 Contact Hours: 3 per week

### ■ EPB132 INTERNATIONAL TRADE & FINANCE

Surveys international trade and finance with an emphasis on current economic policy issues; the theories of trade and the bases, direction, volume and terms of trade; trade policy and economic welfare; tariffs and trade; GATT; industry policies; economic integration: EC, NAFTA, APEC, ASEAN; balance of payments; alternative exchange rate regimes; foreign exchange markets and risk management using futures and options; Eurocurrency markets; international money reform. This unit is not available to students undertaking the Economics primary major.

Courses: BS50, ED50  
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.

Course: BS50  
Credit Points: 12 Contact Hours: 3 per week

### ■ EPB134 LABOUR ECONOMICS

This unit applies analytical tools acquired from the preceding units 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.

Course: BS50 Prerequisites: EPB154, EPB142  
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.

Course: BS50 Prerequisite: EPB124 or EPN101  
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; recent legislative action and possible future legislation. (Note: Offered in Semester 1 in odd-numbered years only.)

Course: BS50 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; 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.)

Courses: BS50, ED50 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.

**Courses:** BS50, IF31, IF52, IS43, IT20, NS48, PU48

**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.

**Course:** BS50      **Prerequisite:** EPB142  
**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ EPB142 MACROECONOMIC THEORY

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.

**Course:** BS50      **Prerequisites:** EPB140 or EPN102  
**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 problems through their own calculations and the use of a computer; students gain an appreciation of the strengths and weaknesses of the models.

**Course:** BS50  
**Credit Points:** 12      **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 and the theories of growth and trade cycles.

**Course:** BS50  
**Prerequisite:** EPB104  
**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ EPB150 MICROECONOMICS

Economic agents: the consumer, the firm, the manager and the government; the determination of prices; the theory of consumer behaviour, the nature of demand, preference and indifference theory, the nature of supply and market operation, short and long costs, market structures and factor markets.

**Courses:** BS50, ED50, IF31, IF52, IS43, IT20, NS48, PU48  
**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. Topics include: efficient market outcomes, market failure, the role of the government, public goods, agriculture policy, manufacturing policy, externalities and the environment.

**Course:** BS50      **Prerequisite:** EPB152  
**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ EPB152 MICROECONOMIC THEORY

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 welfare economics.

**Course:** BS50      **Prerequisite:** EPB150 or EPN102  
**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.

**Course:** BS50      **Prerequisite:** EPB142  
**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.

**Course:** BS50      **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.

**Course:** BS50      **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; 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; state power and democracy; re-evaluation of basic concepts.

**Course:** BS50      **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.

**Course:** BS50

**Prerequisites:** EPB 124 and either EPB 116/EPB 140/EPB 150 or EPN 101 and EPN 102

**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, the prisoner dilemma, the consumption tax versus the income tax, public sector accounting.

**Course:** BS50

**Prerequisite:** EPB 152

**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; policy implementation: determinants of policy; economic and political; policy theory.

**Course:** BS50

**Prerequisite:** EPB 100 or for non public administration students, the completion of 8 units in the relevant degree program, including an introductory government or politics unit, EPN 101 for MBA students.

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ EPB160 PUBLIC SECTOR ECONOMICS

The reasons for government intervention in the economy; the ways in which the effectiveness of this intervention may be measured. Topics include: the competing goals of efficiency and equity; theories of first-best and second-best; the importance of externalities; the public goods controversy; privatisation, deregulation and reregulation.

**Course:** BS50

**Prerequisite:** EPB 152

**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.

**Course:** BS50

**Prerequisites:** BSB 102, EPB 112 or HRN 104

**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.

**Courses:** BS50, ED50, PU48

**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; strengths; spatial networks including city systems; regional stability and volatility.

**Course:** BS50

**Prerequisites:** EPB 142 or EPB 152. EPN 102 for MBA students.

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ EPB166 SPECIAL TOPIC – PUBLIC POLICY

This unit aims to help the student apply in detail the modes of analysis developed in the core units to specific policy areas; their immediate relevance can be demonstrated and a thorough understanding of a policy area gained.

**Course:** BS50

**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; the criminal justice system.

**Course:** BS50

**Prerequisite:** EPB 124

**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.

**Course:** BS50 **Prerequisites:** EPB 152 or EPN 102

**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.

**Course:** BS50

**Credit Points:** 9 **Contact Hours:** 2 per week

#### ■ EPB171 ECONOMIC ANALYSIS & POLICY (EDUCATION)

The theoretical constructs of welfare economics and cost-benefit analysis; the economic rationales for government policy in major areas including: the environment; resource depletion; public enterprise; taxation; federal fiscal relations; education finance.



This unit is not available to students in the Economics primary major.

**Course:** ED50

**Prerequisites:** EPB140 and EPB150

**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ EPN101 GOVERNMENT BUSINESS RELATIONS

The relationship between government and business, especially in Australia; 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.

**Courses:** BS81, BS70

**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ EPN102 MANAGERIAL ECONOMICS

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.

**Courses:** BS73, BS81

**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 range of analytical tools are used to address major issues including 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 development of firms as economic institutions.

**Courses:** BS83

**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ EPN104 POLICY ANALYSIS

A central aim of the program is to develop skills in the analysis of policy content and policy process; provides a basic methodological framework for the systematic development of those skills; two related objectives: (a) To examine a range of models of public policy processes with a view to determining their validity and utility; (b) To develop a capacity for policy analysis, utilising a variety of conceptual frameworks; topics include: policy design, formation and implementation and theories of policy.

**Courses:** BS62, BS83

**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ EPN105 STATISTICAL METHODS

Statistics is the study of the procedures for collecting, analysing and interpreting the data required for effective decision making; this unit aims to develop an understanding of the basic concepts and techniques of statistical analysis, with particular reference to their application in management; campus computers may be used; topics include: graphs, charts, descriptive statistics, probability, sampling methods, analysis of sample results and regression and correlation.

**Course:** BS81

**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ EPN106 PROGRAM MANAGEMENT & EVALUATION

Program management and evaluation in the public sector, with an emphasis upon skills development. The unit covers: introduction to program management; departmental strategic/corporate plans and pro-

gram management; program logic, management; design, goal and objectives setting; performance indicators and their development; budgeting and program management; performance monitoring and measurement; program evaluation.

**Courses:** BS62, BS83

**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ EPN108 DEVELOPMENTS IN MICROECONOMIC THEORIES

At a time when microeconomic theory is being applied to a host of contemporary economic developments including privatisation, deregulation, micro-economic reform and environmental management it is important for honours graduates to be familiar with these developments. Discussion of refinements in microeconomic theory such as hedonic pricing models, invalid preference theory, contestable market theory, theories of regulation, strategic entry deterrence, networks and vertical integration theories, underpays and public utility theories will take place in this unit; explores refinements in microeconomic theory which have contemporary use in the development of government policies in areas such as the environment, energy, public enterprises, industrial development, transport and telecommunications.

**Courses:** BS62, BS83

**Prerequisite:** An undergraduate degree or major in economics.

**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ EPN109 INTERNATIONAL BUSINESS POLICY & COMPETITIVE STRATEGIES

This unit expands and builds upon the theoretical and conceptual basis of analytical decision making in international Business Policy. Emphasises recent developments in competitive and anti-competitive trade practices at a business, cultural and negotiating level. Topics include: trade policies in relation to analysis of product cycles, technology based trade services, tourism and agribusiness; contemporary issues such as structural adjustment policies, innovation and entrepreneurship, global strategic objectives, business plans and market entry strategies.

**Courses:** BS62, BS83

**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ EPN110 REGIONAL STUDY

Regional understanding is crucial to international success. This unit aims to analyse a regions' economic, business and government environment, its key institutions and trade and investment relation with other countries, particularly Australia. The unit will endeavour to extend and advance the analytical, evaluative and expressive skills of students to consolidate their understanding or policy issues in a regional dimension. These studies will be chosen from the Asia-Pacific and/or the European global arena. The topics covered include: international economic relations within the region, between the region and Australia, industry and technology policies. Other topics include: commercial policy and institution building, business policy culture and communication and corporate-government relations.

**Courses:** BS62, BS83

**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ EPN111 CONTEMPORARY MACROECONOMIC THEORIES

Macroeconomic theories form the foundation for national and international policy prescriptions. It is essential for honours graduates to be familiar with the latest theories impinging on policy making in both

English speaking and non-English speaking countries. This unit introduces students to the latest theoretical developments in the field of macroeconomics using both qualitative and quantitative approaches. It places these theories in their historical, philosophical and societal contexts. This unit will look at New-classical and New-Keynesian theoretical approaches to a range of issues. These include: expectation theories, supply-side economics, theories of labour markets, monetary theories and growth theories (including the role of international trade). Also differences in the theoretical foundations of macroeconomic policies employed in different countries will be highlighted.

**Courses:** BS62, BS83

**Prerequisite:** Students must have an undergraduate economics degree or economics major.

**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 overhaul; economic alternatives.

**Courses:** BS77, BS83, IP69

**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.

**Course:** BS10

**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.

**Course:** BS10

**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.

**Course:** JS21

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ EPX104 RESEARCH METHODS

Logic and argument; descriptive statistics: collection, presentation and analysis of data; price index numbers; introduction to computers;

**Course:** BS10

**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 struc-

tural geology, geomorphology, stratigraphy and economic geology. Field excursions as required.

**Course:** SC10

**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. 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.

**Courses:** ED50, SC30

**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: stratigraphic interpretations, study of fossils, map interpretation. Field excursions to local areas of interest.

**Courses:** ED50, SC30

**Credit Points:** 12 **Contact Hours:** 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; techniques of mineral analysis; identification in thin section and grain mounts. Field excursions to mineralogic sites.

**Courses:** ED50, SC30

**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.

**Courses:** ED50, SC30

**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 unit includes practical work and field and industrial visits.

**Courses:** ED50, SC30 **Co-requisite:** ESB312  
**Prerequisites:** ESB122, ESB222  
**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 unit 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.

**Courses:** ED50, SC30  
**Prerequisites:** ESB122, ESB222  
**Credit Points:** 12 **Contact Hours:** 5 per week

### ■ ESB422 SEDIMENTOLOGY & STRATIGRAPHY

Principles of sedimentation; the sedimentary cycle; weathering; fluid flow and sediment transport; sedimentary structures; textures; grain size analysis; classification of sedimentary rocks and economic deposits; sedimentary depositional environments and introduction to facies analysis; diagenesis; sedimentation and tectonics. Principles of stratigraphy and basin analysis including lithostratigraphy, biostratigraphy, chronostratigraphy, magnetostratigraphy, seismic stratigraphy and sequence stratigraphy. The unit includes project-based practical assignments, several short field excursions and one weekend excursion.

**Courses:** ED50, SC30  
**Prerequisites:** ESB312, ESB392  
**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 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

**Courses:** ED50, SC30 **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. Practical aspects include col-

lection of geochemical data, methods of analysis and interpretation and preparation of geochemical reports.

**Courses:** ED50, SC30  
**Prerequisites:** CHB182, ESB312  
**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.

**Courses:** ED50, SC30 **Prerequisite:** ESB312  
**Credit Points:** 12 **Contact Hours:** 5 per week

### ■ ESB502 PACIFIC MARINE GEOLOGY

The regional geology of the Pacific Ocean and in particular the South West Pacific, including its tectonic framework, island arc magmatism and types of volcanism. Deep and shallow marine and on-shore examples are considered. Broad aspects of physical and chemical oceanography (eg. circulation and climate) including features such as the El Nino and Greenhouse effects. Resources of the region: ore deposits related to environment and formation with terrestrial examples; marine deposits; non-metallic and engineering materials; conventional and alternative energy sources. Types and chemistry of marine sediments (deep and shallow). Specific problems related to engineering geology, coastal zone protection and hydrogeology. Interaction of man with the Pacific environment.

**Courses:** ED50, SC30  
**Prerequisites:** ESB392 and at least one of ESB422, ESB442 or ESB452  
**Credit Points:** 12 **Contact Hours:** 5 per week

### ■ ESB512 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 compositions and textures. Interpretation of rock and mineral compositional diagrams; application of experimental work and detailed computer modelling of petrochemical processes. Practical work and field excursions.

**Courses:** ED50, SC30 **Prerequisite:** ESB462  
**Contact Hours:** 5 per week

### ■ ESB519 GEOLOGY FOR ENGINEERS

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 and the effect of geologic hazards on engineering construction; case histories on the relevance of geology to the civil engineer's workplace.

**Course:** CE42  
**Credit Points:** 6 **Contact Hours:** 3 per week

### ■ ESB522 HYDROGEOLOGY

The hydrologic cycle; the origin, occurrence and movement of groundwater; the basic chemistry, quality and treatment of groundwater; exploration methods for groundwater; drilling methods; drilling and well testing equipment; well hydraulics and flow calculations. Practical experience with pump test drilling techniques, water treatments, chemical analysis of waters and computer modelling.

**Course:** SC30 **Prerequisite:** ESB442  
**Credit Points:** 12 **Contact Hours:** 5 per week

### ■ ESB532 APPLIED GEOPHYSICS

The theory of exploration geophysics. Gravity, magnetic, radiometric, well logging, seismic refraction and reflection, electrical resistivity, induced polarisation and electromagnetic techniques. The reduction and manipulation of geophysical data and their interpretation, field data acquisition and computer modelling. Practical studies of the main techniques. Experience in a variety of geophysical methods is gained during a field excursion.

Course: SC30

Prerequisites: ESB392, MAB212, PHB122

Credit Points: 12 Contact Hours: 5 per week

### ■ ESB552 APPLIED GEOCHEMISTRY

Techniques for establishing regional geochemical patterns and their use in land use evaluation and environmental impact studies. Recognition of primary and secondary dispersion patterns and their use in the discovery of ore deposits. The geochemical impact of the Australian landscape; chemical analyses; rationalisation and interpretation of geochemical data; computing and statistical analysis. Geochemical surveys based upon bedrock, ironstone and gossan, soils, stream sediments, lake sediments, water, biogeochemical materials and gases. Off-shore geochemistry. Special problems of gold geochemistry. Practical work includes an industry or research field project requiring several days of field work and a selection of case history assignments based upon environmental and exploration problems.

Course: SC30 Prerequisites: ESB452, MAB237

Credit Points: 12 Contact Hours: 5 per week

### ■ ESB562 MINERAL EXPLORATION

Mineral exploration; crustal evolution and ore genesis; metallogenetic epochs and provinces; wall rock alteration; gossans; the mineral potential of the sea bed; isotope studies and ore genesis; geothermometry; fluid inclusion; sampling, drilling, core logging, mineralogy. Field and industrial visits. Part of the assessment is based on student seminars.

Courses: ED50, SC30 Prerequisite: ESB362

Credit Points: 12 Contact Hours: 5 per week

### ■ ESB592 GEOLOGICAL FIELD EXCURSIONS

Field excursions to South East Queensland/Northern New South Wales emphasising geologic mapping. Includes some lectures and tutorials. Assessment is based entirely on the field reports and geologic maps. This is a year long unit.

Courses: ED50, SC30

Prerequisites: ESB342, ESB462

Credit Points: 12 Contact Hours: 5 per week

### ■ ESB602 GEOLOGICAL INVESTIGATIONS

Students are required to formulate a research problem with specific aims and objectives, develop the methodology and collect, analyse and interpret data to produce a solution to the problem. Research problems may be field based, requiring the projection of a detailed map, collection of representative samples and observation and analysis of structures and mineralisation and/or include a substantial exploratory component to conduct detailed analyses of rock geochemistry or petrography. Assessment is based on the production of both a written and an oral report.

Course: SC30

Prerequisite: Approval from Head of School

Credit Points: 12 Contact Hours: 5 per week

### ■ ESB612 EARTH RESOURCES MANAGEMENT

Appreciation of earth resources; their distribution and uses; societal and environmental impacts and future alternatives; economic mineral resources; energy sources; water and soil resources; realities and limits of earth resources; resource management; conservation versus exploration; waste disposal; environmental pollution; future technological developments and their possible effects on earth resources. The unit also includes management in applied geology, professionalism and ethics together with an introduction to civil and mining law. This includes: mining acts and miner's rights; licensing procedures for prospecting search and exploration; mining leases on crown lands and mining on private land; the enforcement of mining interest; petroleum legislation in Australia; company structure; joint ventures; practical work involves applications for exploration licences, claim and leases. A field trip to peg a claim and collect data for an environmental impact study may be included.

Courses: ED50, SC30

Prerequisite: ESB362

Credit Points: 12 Contact Hours: 5 per week

### ■ ESB622 ENGINEERING GEOLOGY

The inter-related fields of engineering, environmental geology and soil and rock mechanics. The topics studied are those most likely to apply to the work of the engineering or environmental geologist in tropical urban and coastal areas. Topics include: investigation techniques and philosophies for the engineering of slopes, coastal structures, dams, buildings and subsurface openings; practical investigation methods; the input of geology into urban and coastal developments; the mechanical and chemical properties of soils and rocks; seepage; shear strength; bearing capacity; consolidation theory; stresses and displacements, in situ stresses; earthquakes and slope stability.

Courses: ED50, SC30

Prerequisites: ESB392 and one of ESB342, ESB422, ESB442 and ESB462

Credit Points: 12 Contact Hours: 5 per week

### ■ ESB632 ADVANCED GEOPHYSICS

The main geophysical disciplines are treated in detail in terms of data processing and interpretation. Emphasis on particular methods will vary depending on current market demands and innovative techniques. Case histories are used to illustrate successful program design and implementation. Cooperative sessions with exploration companies and appropriate field work will be included in the unit.

Course: SC30

Prerequisites: ESB532 and MAB222

Credit Points: 12 Contact Hours: 5 per week

### ■ ESB642 STRUCTURAL GEOLOGY & GEOTECTONICS

Petrofabrics: macroscopic classification, axial planar foliations, refraction of foliations, foliation in heterogeneous lumpy materials, cleavage: bedding relations in structural mapping, processes of fabric development, fabric in analysis of histories of poly-deformed terrains. Recent and contemporary crustal movements. Genesis and classification of fault rocks. States of stress in the earth's crust: loading history, crustal fluids and extensive tectonism. Stress systems in sedimentary basins during downwarp and uplift. Intrusive and extrusive structures: sheet intrusions, plutonic intrusions, magma pressure and the eruptive mechanisms, breccia pipes, sedimentary intrusive and extrusive structures. Practical component is based on a series of assignments using data from mineral ex-

ploration, civil engineering projects, complex deformation terrain, and petroleum and coal applications.

**Course:** SC30

**Prerequisite:** ESB342

**Credit Points:** 12

**Contact Hours:** 5 per week

### ■ ESB662 MINING GEOLOGY & FEASIBILITY

Topics include: mine mapping, resource calculation, mining methods, the geologist's role in the mine, mining hazards and safety requirements. Solutions to problems involving the concepts of present value of money, place value, unit value, recoverable value, cash flow, discounted cash flow, DCFROI, payback, discounted payback, net present value, depreciation, depletion, sinking fund, annuity, diminishing annuity, compound interest, taxation and its effect on ore reserves and mine profitability, price forecasting, mining costs, metal marketing, exchange rates, sampling, tonnage grade calculation, resources and reserves, sensitivity analyses, spreadsheets. Practical work in both laboratory and industrial settings (mine and core storage facilities) and problem solving tutorials.

**Courses:** ED50, SC30

**Prerequisite:** ESB562

**Credit Points:** 12

**Contact Hours:** 5 per week

### ■ ESB672 GEOLOGY OF FOSSIL FUELS

Coal properties, classification, genesis and analysis; hand specimen study and microscopy; hydrocarbon generation from coal and oil shale; coalfield geology and subsurface mapping techniques; basin analysis; coal production and economics. Origin and characteristics of petroleum fluids including generation, accumulation and migration through time and space; study of structural and stratigraphic traps and reservoir rock characteristics; application of drilling, logging and geophysical and correlation techniques to quantify these aspects; correlation techniques including seismic stratigraphy; economics of production. Field excursions of short duration as required, together with practical assignments.

**Courses:** ED50, SC30

**Prerequisites:** ESB422, ESB522

**Credit Points:** 12

**Contact Hours:** 5 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.

**Course:** SC60

**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.

**Course:** SC60

**Credit Points:** 10

**Contact Hours:** 3 per week

### ■ ESB710 ENVIRONMENTAL GEOCHEMISTRY

Advanced aspects of the application of geochemistry in the geological environment with emphasis on the regolith and the earth's surface-atmosphere interface; includes surface and groundwaters, in near-coastal

areas and areas of concentrated population as well as the shallow marine environment; aqueous processes in these locations and the geochemistry of sediments, plus geochemical and hydrological aspects of waste disposal; current and potential problems, plus aspects of remediation and management.

**Course:** SC60

**Prerequisite:** As approved by Honours (Geology) coordinator

**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.

**Course:** SC60

**Prerequisite:** As approved by Honours (Geology) coordinator

**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.

**Course:** SC60

**Prerequisite:** As approved by Honours (Geology) coordinator

**Credit Points:** 6

**Contact Hours:** 2 per week

### ■ ESB713 PETROCHEMISTRY

The petrology, geochemistry, and petrogenesis of igneous and metamorphic rocks. Topics vary according to student interest but 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.

**Course:** SC60

**Prerequisite:** As approved by Honours (Geology) coordinator

**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.

**Course:** SC60

**Prerequisite:** As approved by Honours (Geology) coordinator

**Credit Points:** 6

**Contact Hours:** 2 per week

### ■ ESB715 ADVANCED SEDIMENTOLOGY & STRATIGRAPHY

Advanced aspects of sedimentology focused primarily on basin analysis and interpretation of both modern

and palaeo environments. Topics include: basin mapping and stratigraphic correlation techniques; facies models of most carbonate, siliciclastic and other depositional systems; facies architecture within basin styles, basin subsidence and fill models; regional and global stratigraphic cycles and sequence stratigraphy; sedimentation and plate tectonics; applications of advanced sedimentology to both resource exploration and development and environmental management.

**Course:** SC60

**Prerequisite:** As approved by Honours (Geology) coordinator

**Credit Points:** 6 **Contact Hours:** 2 per week

#### ■ ESB716 ADVANCED TOPICS IN GEOPHYSICS

Advanced geophysical theory and interpretation; applications of palaeomagnetic studies to geological situations; the analysis of data and design of suitable filters using different mathematical transforms; automatic interpretation of large data sets; tomography and three-dimensional seismic interpretation.

**Course:** SC60

**Prerequisite:** As approved by Honours (Geology) coordinator

**Credit Points:** 6 **Contact Hours:** 2 per week

#### ■ EST219 ENGINEERING GEOLOGY

The definitions and principles of geology; 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; the effects of rivers and coastal wave action in erosional/sedimentary cycles.

**Course:** CE21

**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.

**Course:** BS50

**Prerequisites:** FNB107 or FNB111 or FNN102, EPB140

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ FNB101 BUILDING FINANCIAL MANAGEMENT I

Commercial property financial management; the nature of accounts; capital structures, equity, liabilities and asset management; the role of taxation in financial decision making; ownership; budgeting.

**Courses:** CN31, CN33

**Credit Points:** 12 **Contact Hours:** 2 per week

#### ■ FNB103 COMPARATIVE FINANCIAL SYSTEMS

Introduction to the operations of important overseas capital markets, regulation and structure.

**Course:** BS50

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ FNB104 COMPUTER APPLICATIONS IN FINANCE

Students learn the necessary skills to undertake analysis and applied research in business finance. Topics include: programming and data file manipula-

tion using dBase IV; ordinary least squares regression; SPSS-PC statistical computer software.

**Course:** BS50 **Prerequisites:** FNB112, ISB892

**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.

**Course:** BS50

**Prerequisites:** FNB123, ISB892

**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 finance and commerce; reinforcement of investment analysis using software (eg. LOTUS 1-2-3); hardware and software selection process; negotiating contracts involving hardware and software; using and searching on-line public access databases; the components and benefits of modern data communications and automated office technology in finance and commerce.

**Course:** BS50

**Credit Points:** 12 **Contact Hours:** 4 per week

#### ■ FNB107 CORPORATE FINANCE

An overview of the Australian Financial system; technical tools used in financial decision making; the capital market, short and long term finance; dividend policy; investment decision models.

**Courses:** BS50, ED50, IF53

**Prerequisite:** AYB100 or AYB110

**Incompatible with:** FNB111

**Credit Points:** 12 **Contact Hours:** 4 per week

#### ■ FNB111 FINANCE I

The institutional framework terminology, the basic instruments, their uses and pricing. Financial mathematics, NPV, risk and returns, certainty and uncertainty, the CAPM model. Practical asset management, firm valuations, investments and capital budgeting.

**Courses:** BS50, IF31

**Prerequisite:** AYB110 or AYB100, EPB150 or EPB116

**Incompatible with:** FNB107

**Credit Points:** 12 **Contact Hours:** 4 per week

#### ■ FNB112 FINANCE 2

Theoretical development of the CAPM model, its practical application and its relationship to efficient market hypothesis. Capital structure, dividends, short term assets, leasing, takeovers, options and futures.

**Courses:** BS50, IF31

**Prerequisite:** FNB111

**Credit Points:** 12 **Contact Hours:** 4 per week

#### ■ FNB113 FINANCE 3

A study of contemporary finance research; event research; beta estimation; valuation theory; use of finance research tools; anomalies and extension of finance theories; students are required to complete a research project combining theory and practice.

**Course:** BS50

**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 lend-

ing and securities; financing international trade; problem loans and credit scoring.

**Course:** BS50

**Prerequisite:** FNB107 or FNB111 or FNN102

**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. The marketing of financial services.

**Course:** BS50      **Prerequisite:** FNB111 or FNN102

**Incompatible with:** FNB125

**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.

**Courses:** EE43, ME45

**Incompatible with:** FNB125

**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.

**Course:** BS50

**Prerequisite:** FNB111/FNB106/ISB892

**Incompatible with:** AYB101

**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.

**Courses:** BS50, IF53

**Prerequisite:** FNB111 or FNN102. It is recommended that students take FNB100 prior to this unit.

**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; regulation and finance, market failure: the finance solution.

**Course:** BS50      **Prerequisites:** FNB111, FNB123

**Credit Points:** 12      **Contact Hours:** 4 per week

### ■ FNB122 MANAGEMENT ACCOUNTING

The nature of management accounting; cost concepts; cost profit volume analysis; relevant costs and special decisions; flexible budgets; responsibility accounting; job and process costing; introduction to finance; financing decisions: equity v debt, leasing, investment dividends; introduction to financial maths; understanding the financial press.

**Course:** ED50

**Prerequisite:** AYB110

**Incompatible with:** FNB123

**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.

**Courses:** BS50, IF31

**Prerequisite:** AYB110

**Incompatible with:** FNB122

**Credit Points:** 12      **Contact Hours:** 4 per week

### ■ FNB124 MANAGERIAL ACCOUNTING 2

The application of the conceptual framework of the finance paradigm to provide a positive explanation of managerial accounting: interrelationships between managerial accounting, economics of firms, business finance, regulation, organisation behaviour and computer applications; agency theory responsibility accounting and cost allocation; decisionmaking and relevant costs; pricing techniques, advertising and transfer pricing; performance evaluation.

**Courses:** BS50, IF31      **Incompatible with:** FNB115

**Prerequisites:** FNB111, 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; project evaluation; evaluation and selection of investment projects, management of working capital; leverage; cash forecasting and management; financial statement analysis.

**Course:** BS50

**Incompatible with:** FNB116

**Credit Points:** 4      **Contact Hours:** 2 per week

### ■ FNB126 PORTFOLIO & SECURITY ANALYSIS

Management of investment portfolios; diversification; performance management; risk management; advanced theories on option pricing, efficient markets, futures trading (hedging) and asset pricing;

**Course:** BS50      **Prerequisite:** FNB112 or FNN102

**Credit Points:** 12      **Contact Hours:** 4 per week

### ■ FNB127 MANAGERIAL ACCOUNTING PRINCIPLES

Budgeting, standard costs and variance reporting for manufacturing/non-manufacturing firms; managerial performance reporting, decentralised business operations and capital budgeting; inventory planning, control and valuation; relevant costs and decision making; project control.

**Course:** IS10

**Prerequisite:** AYB104

**Incompatible with:** FNB123

**Credit Points:** 9      **Contact Hours:** 3 per week

### ■ FNN100 ADVANCED CAPITAL BUDGETING

Application of the theoretical constructs developed in undergraduate finance units to complex problems in investment appraisal.

**Courses:** BS70, BS87

**Prerequisite:** FNB112

**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; provides a theoretical basis allowing for evaluating policy problems in the area of financial management, a prerequisite for further specialisation in this area.  
**Courses:** BS60, BS70, BS81, BS87  
**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.  
**Course:** BS81      **Prerequisites:** AYN101/AYN112  
**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.  
**Courses:** BS70, BS87  
**Prerequisites:** FNB111, FNB123  
**Incompatible with:** FNB117  
**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ FNN104 FINANCIAL RISK MANAGEMENT

An advanced postgraduate finance unit which covers four areas of risk management: portfolio, investment, exchange 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, new tax rules and superannuation fund performance, interest rate risk, rating agencies, duration, immunisation. Emphasis on empirical research.  
**Courses:** BS70, BS87      **Prerequisite:** FNB112  
**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ FNN105 INTERNATIONAL FINANCE

The theory and practice of international finance; the relationship between domestic and international capital markets, interest rate and exchange rate determination, risk management of foreign exchange, international trade finance, offshore investment, legislation, transfer pricing, accounting and taxation aspects.  
**Courses:** BS70, BS87      **Prerequisite:** FNB120  
**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ FNN106 MANAGERIAL ACCOUNTING HONOURS

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, its impact on managerial accounting; contemporary developments.  
**Courses:** BS60, BS70, BS87  
**Prerequisite:** FNB124  
**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ FNN110 MANAGERIAL ACCOUNTING ISSUES A

Issues associated with decentralisation and responsibility accounting, performance evaluation, cost allocation, budgeting, the new management accounting viewed from the framework of finance economics.  
**Courses:** BS70, BS87      **Prerequisite:** FNB124  
**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 and strategic product development, productivity control, advanced budgeting techniques, program budgeting, and management control systems.  
**Courses:** BS70, BS87      **Prerequisite:** FNB123  
**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ FNN112 SPECIAL TOPIC – MANAGERIAL ACCOUNTING & FINANCE

Issues of significance in managerial accounting and finance. This unit is offered when required.  
**Courses:** BS70, BS87  
**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ FNN113 MANAGERIAL ACCOUNTING FOR ENGINEERS

An explanation of accounting concepts and terminology and a coverage of the accounting communication and reporting system of financial statements; using accounting information for special decision-making; financial modelling as a decision support system; how costs are accumulated for manufacturing control purposes; current issues in accounting for manufacturing including activity based costing, costing for quality, costing for productivity.  
**Course:** ME76  
**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ FNN300 ACCOUNTING 2 (PY)

This unit aims to satisfy the professional year syllabus of the Institute of Chartered Accountants in Australia in applied areas of managerial accounting, finance and auditing. The unit builds upon the undergraduate framework in these areas. Topics are revised annually by the Institute with a focus on applied practice.  
**Courses:** BS70, BS87      **Prerequisite:** AYN300  
**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ FNN301 MANAGEMENT ACCOUNTING (PY)

This unit 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.  
**Courses:** BS70, BS87      **Prerequisite:** FNB124  
**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ FNN303 MANAGEMENT ACCOUNTING (MBA)

Management accounting and the issues confronting a management accountant. On completion of the unit, students should have an appreciation of various management accounting concepts, and be able to apply these concepts to business/accounting situations. Topics include: the nature of management accounting; cost concepts; cost profit-volume analysis; relevant costs and special decisions; flexible budgeting; responsibility accounting; costing.  
**Course:** BS81      **Prerequisite:** AYN101 or AYN112  
**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.  
**Course:** BS77  
**Credit Points:** 6      **Contact Hours:** 3 per week



**■ HLN001 LITERATURE REVIEW****■ HLN002 RESEARCH PROJECT****■ HLN003 THESIS PRESENTATION**

These three units combine to constitute the research/thesis component of the Master of Health Science. The thesis in total provides students with an opportunity to formally extend and synthesise knowledge gained in earlier semesters of the program. This study represents an independent and original piece of research completed with the guidance of a supervisor. The thesis provides an opportunity for coursework conducted in the area of specialisation to be applied in a practical manner reflecting the student's specific interest in health science. The thesis may be a report on research which makes a contribution to knowledge, or a study in which the student critically analyses and appraises existing knowledge and produces observations and conclusions of value to the field concerned. The thesis is divided into three distinct units: Literature Review 12cp, Research Project 12cp, Thesis Presentation 24cp. Units may be studied independently or concurrently.

**Course:** HL88 **Credit Points:** 48 total  
**Contact Hours:** HLN001 - 3 per week,  
 HLN002 - 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; creative learning.

**Course:** ED40  
**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; coaching school sports; presentation of a coaching workshop.

**Course:** ED40  
**Credit Points:** 8 **Contact Hours:** 3 per week

**■ HMB171 FITNESS, HEALTH & WELLNESS**

This unit involves students in the study of systems of the human being basic to physical activity. The inter-relationships of health, physical activity and wellness, historically and dimensionally, is investigated. Basic principles of conditioning and exercise prescription to demonstrate the impact of physical activity on life-style diseases, health behaviours and wellness.

**Courses:** ED51, HM42  
**Credit Points:** 12 **Contact Hours:** 3 per week

**■ HMB172 LIFESPAN GROWTH & MOTOR DEVELOPMENT**

This unit provides students with knowledge and understanding of essential physical growth concepts and the theoretical perspective of major development; maturational/descriptive and Neuro-behavioral, special reference to the physical activity setting.

**Course:** HM42  
**Credit points:** 12 **Contact Hours:** 4 per week

**■ HMB173 SOCIAL & PSYCHOLOGICAL DIMENSIONS OF PHYSICAL ACTIVITY**

An introduction to social and psychological considerations of physical activity; why study sport?; the sociological dimensions; historical determinants; sport and socialisation, business, education and the future. The psychological dimensions; coaching; motivation; aggression and violence; parents in

children's sport. The socio-psychological issues of exercise; healthism; dieting; sport and the aged.

**Course:** HM42  
**Credit Points:** 12 **Contact Hours:** 3 per week

**■ HMB201 PHYSICAL EDUCATION 1**

This unit focuses on growth and development in primary children. Topics include: the factors influencing physical skill development; the content of primary physical education curriculum and processes in teaching such content; basic lesson planning progressing to comprehensive and sequenced unit planning.

**Course:** ED41  
**Credit Points:** 8 **Contact Hours:** 3 per week

**■ HMB202 PHYSICAL EDUCATION 2**

This unit is practically based. Students work through a systematic approach to the teaching of physical education. The micro-teaching involves four state primary schools. The preparation and planning of physical education activities is highlighted. There is a strong emphasis throughout on action learning and action research skills. Outcomes include the development of reflective teachers of physical education.

**Course:** ED41  
**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 unit aims to present all sides of physical education viewed from different vantage points. The concern is with the how and why of human movement, be it in the school setting or on the sports field, for competition or for recreation, for enjoyment or for money.

**Course:** ED41  
**Credit Points:** 8 **Contact Hours:** 3 per week

**■ HMB204 PHYSICAL ACTIVITY STUDIES 1**

Students pursue one of three 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 socio-cultural studies strand in which the historical, political and socio-cultural factors that have influenced the development of Australian sport are considered; 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.

**Courses:** ED41, ED51  
**Credit Points:** 12 **Contact Hours:** 3 per week

**■ HMB205 PHYSICAL ACTIVITY STUDIES 2**

The content is offered in three strands to enable students to gain an in-depth knowledge in the one of their choice: 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 incorporates designing community programs for handicapped and disabled people; socio-cultural studies provide an initial view of the relationship between physical activity and the social world.

**Courses:** ED41, ED51  
**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 its promotion. Curriculum development in primary school health education and selected content areas of

the primary school health education curriculum highlight the importance of attitudes, values, beliefs and practices in the adoption of healthy behaviour.

Course: ED41

Credit Points: 8 Contact Hours: 3 per week

### ■ HMB242 HEALTH STUDIES 2

This level two unit is offered in parallel strands and expands some of the issues raised in the level one unit. Students 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.

Courses: ED41, ED51

Credit Points: 12 Contact Hours: 3 per week

### ■ HMB243 HEALTH STUDIES 3

This level three unit extends in depth some of the issues addressed in the level one and two units. The dual strand developed in the level two unit continues, following an individual or a community focus. In the individual strand the focus narrows to look at the former status of children. In the latter strand the focus is on drug issues and their use in Australia.

Courses: ED41, ED51

Credit Points: 12 Contact Hours: 3 per week

### ■ HMB271 MOTOR CONTROL & LEARNING

Overview of relevant theories and research in motor control and learning for acquisition of skilled motor behaviour; a knowledge of information processing and sensory systems; memory processes; factors contributing to motor learning; laws of simple movements; motor programs and motor control processes.

Course: HM42

Credit Points: 12 Contact Hours: 4 per week

### ■ HMB272 BIOMECHANICS

The application of mechanics as they apply to human movement and sports performances including: kinematics and dynamics of human body models; quantitative analysis; impact; work and power.

Course: HM42

Credit Points: 12 Contact Hours: 4 per week

### ■ HMB273 EXERCISE PHYSIOLOGY

Energy systems; aerobic and anaerobic systems; bioenergetics; fuels for energy. Fitness components: aerobic capacity, strength, power, muscular endurance, flexibility. Training and conditioning: effect on the system of the body; methods and techniques; training for different populations (children, females, aged); training for specific sports and activities. Evaluation of fitness: tests for all fitness parameters; essential practical and laboratory procedures.

Course: HM42

Prerequisite: LSB231 or equivalent

Credit Points: 12 Contact Hours: 4 per week

### ■ HMB274 FUNCTIONAL ANATOMY

Surface anatomy of the trunk and upper and lower limb; morphological and mechanical properties of bone, muscle-tendon units with implications for physical activity; joint structure and function; analyses of movement tasks including walking and running; cinematography and electromyography in functional anatomy of movement tasks.

Course: HM42

Credit Points: 12 Contact Hours: 4 per week

### ■ HMB275 EXERCISE & SPORT PSYCHOLOGY

Introduction to the psychological factors which influence performance, participation and adherence to both sport and exercise programs; personality and the athlete; attention and arousal; relaxation theory and practice; aggression and psycho-social development, leadership and team cohesion.

Course: HM42

Credit Points: 12 Contact Hours: 3 per week

### ■ HMB276 RESEARCH IN HUMAN MOVEMENT

Principles of research: purposes, philosophy, applications. Quantitative research: principles of test construction and administration; basic statistics; basic research design hypothesis testing. Qualitative research: methodology; data collection; theory building. Research presentation: writing a research report; developing conclusions. Application of research; examples in human movement; related literature.

Course: HM42

Credit Points: 12 Contact Hours: 4 per week

### ■ HMB301 HEALTH & PHYSICAL EDUCATION 1

The nature, scope and importance of health and physical education as part of the primary school curriculum. Content includes: concepts and content incorporated in the philosophy of health education and the importance of lifelong healthy living; the structure, management and evaluation of physical education lessons in the school environment; planning learning experiences and developing health and physical education program modules.

Course: ED51

Credit Points: 12 Contact Hours: 5 per week

### ■ HMB302 HEALTH & PHYSICAL EDUCATION 2

This unit builds on HMB301 to give a greater understanding of the nature of health education and physical education as applied curriculum areas. Further insight into relevant syllabus and curriculum documents is provided; competencies in planning and teaching developed; close links with teaching practice.

Course: ED51

Credit Points: 12 Contact Hours: 3 per week

### ■ HMB304 PHYSICAL ACTIVITY & MODERN SOCIETY

In this unit students analyse the nature of the symbiotic relationship between social patterns and the nature and role of physical activity and its influence upon physical education, sporting and fitness programs in primary schools. The importance of both social and cultural change and of the role of teachers in the design and implementation of such programs.

Course: ED51

Credit Points: 12 Contact Hours: 3 per week

### ■ HMB305 PERSONAL HEALTH

An examination of the range of factors influencing personal health including lifestyle and a range of social, economic and environmental factors. A holistic perspective on personal health.

Courses: ED50, ED51

Credit Points: 12 Contact Hours: 3 per week

### ■ HMB306 DEVELOPMENTAL & INTEGRATED PHYSICAL ACTIVITY

This unit provides the theoretical basis to enable teachers of physical education to program for and implement physical activity for all children. Topics

include: normal motor development and variations in these patterns in children with an intellectual, sensory, neurological, physiological or orthopaedic disability. Students taking this unit participate in the community based physical activity programs for such children.

**Course:** ED51 **Prerequisite:** HMB306  
**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ HMB308 PHYSICAL ACTIVITY STUDIES

An overview of the breadth of the exercise science field with reference to the structure and function of the human body and key issues associated with the development of health related and motor fitness.

**Course:** ED51 **Prerequisite:** HMB304  
**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ HMB309 MOTOR DEVELOPMENT, LEARNING & PERFORMANCE

An introduction to the cognitive and motor processes involved in the learning and performance of motor skills. Areas studied include: key terms related to motor development, learning and control; classification systems used in the motor domain; general and individual patterns of physical growth and motor development; information processing and memory systems in the context of motor behaviour.

**Course:** ED50  
**Credit Points:** 12 **Contact Hours:** 5 per week

### ■ HMB310 PHYSICAL EDUCATION CURRICULUM STUDIES I

The nature of physical education as an applied curriculum area. Insights into relevant Queensland syllabus and curriculum documents are provided; competencies in planning and teaching are developed and close links are made with teaching practice.

**Course:** ED50  
**Prerequisite:** EDB323 and at least 48 credit points in the relevant discipline area  
**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ HMB311 MOVEMENT ANALYSIS

This unit is designed to introduce students to the anatomical and mechanical foundations of human movement, an appreciation of which is necessary to understand and interpret performance skills. Knowledge of the skeletal structure, joints and muscle actions, combined with an understanding of the mechanical principles which govern the body's movements are the essential components of this unit.

**Course:** ED50  
**Credit Points:** 12 **Contact Hours:** 4 per week

### ■ HMB312 FITNESS PARAMETERS

To equip students to plan and monitor fitness programs; topics include: essential physiology; circulatory, respiratory, muscular and energy systems; effects of nervous and endocrine functions on body systems; components of fitness-health related and sport performance related programs; principles and methods of training and conditioning; nutrition and weight control; thermoregulation and fluid balance.

**Course:** ED50  
**Credit Points:** 12 **Contact Hours:** 5 per week

### ■ HMB313 SOCIO-CULTURAL FOUNDATIONS OF PHYSICAL ACTIVITY

This unit is designed to lay a foundation in the disciplines of the socio-cultural areas which underpin the study of human movement. It serves as an introduction to the historical, sociological, philosophical, anthropological and cultural foundations of sports, games and leisure activities.

**Course:** ED50  
**Credit Points:** 12 **Contact Hours:** 4 per week

### ■ HMB314 PERFORMANCE SKILLS 1

This unit involves application of scientific principles to the analysis and development of techniques in all major swimming strokes, water rescue methods and track and field events. Students explore instructional strategies, motivational, conditioning and training activities, the development of activity programs for various ability levels, and event rules application.

**Course:** ED50  
**Credit Points:** 12 **Contact Hours:** 6 per week

### ■ HMB315 PERFORMANCE SKILLS 2

In this unit various game forms are analysed in order to identify fundamental game skills and problem areas in skill development. Emphasis is placed on the application of relevant skills to suit game situations; of appropriate strategies for teaching and coaching selected sports to a variety of age groups and on the interpretation of rules in a competitive situation.

**Course:** ED50  
**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 of excellence in gymnastics; routines incorporating a variety of gymnastic and dance skills on floor/aparatus; recognise/remedy of unsafe practices.

**Course:** ED50  
**Credit Points:** 12 **Contact Hours:** 6 per week

### ■ HMB317 OUTDOOR EDUCATION

The value and place of outdoor education in schools and the community; development of proficiency in a number of outdoor pursuits; light-weight, minimum impact camping; leadership skills and safety techniques; the Australian natural environment; promotion of positive attitudes towards natural environments.

**Course:** ED50  
**Credit Points:** 12 **Contact Hours:** 6 per week

### ■ HMB320 PHYSICAL EDUCATION CURRICULUM & TEACHING STUDIES 2

Designed only for fourth year students in 1993 and provides opportunities for consideration and practical application of broad curricular and teaching systems policies within the more specific context of this curriculum area. Establishes principles which guide school experience during teaching practice.

**Course:** ED50 **Prerequisite:** HMB310  
**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ HMB321 SPORT IN SOCIETY

The relationship between sport and the social world. The nature and importance of the role of sport in modern Australian society through an analysis of such contemporary issues and developments in sport as drugs in sport, sport and the law, violence in sport, equity and sport, and sport and socialisation.

**Course:** ED50  
**Prerequisite:** HMB313 or consent of lecturer.  
**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.

**Course:** ED50 **Prerequisite:** HMB309  
**Credit Points:** 12 **Contact Hours:** 3 per week

■ **HMB323 SPORTS & FITNESS DEVELOPMENT**

Practical procedures and laboratory work; testing and evaluating; exercise prescription; design and development of conditioning programs.

Course: ED50 Prerequisite: HMB312  
Credit Points: 12 Contact Hours: 3 per week

■ **HMB324 ADVANCED PERFORMANCE LABORATORIES**

Investigation of selected advanced theoretical structures and application to a performance activity.

Course: ED50  
Prerequisites: Compulsory Level 1 and Level 2 units  
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 development of previously undertaken units to a supplementary option chosen to expand the scope of their studies in human performance and physical education.

Course: ED50  
Prerequisites: Compulsory Level 1 units  
Credit Points: 12 Contact Hours: 3 per week

■ **HMB327 MICROCOMPUTERS IN PHYSICAL EDUCATION & SPORT**

This unit is offered to familiarise students with the benefits of applying microcomputer technology to the fields of physical education and sport. Content includes demonstration and evaluation of relevant software, database management, grading and administration programs and the development of task specific programs for individual institutions.

Course: ED50  
Credit Points: 12 Contact Hours: 3 per week

■ **HMB328 INTERNATIONAL PHYSICAL EDUCATION & SPORT**

This unit is designed to provide students with an international perspective on physical education and sport. Comparative studies in this field give insight into life in other countries act to enhance international understanding of the global village.

Course: ED50  
Prerequisite: HMB394 or HMB321 or consent of lecturer  
Credit Points: 12 Contact Hours: 3 per week

■ **HMB329 PLAY & CULTURE**

A study of the play element in non-literate societies providing insight into play in contemporary societies. The anthropology of play provides a perspective not only for analysing play behaviour itself, but also for describing other cultural experience.

Course: ED50  
Prerequisite: HMB313 or Consent of Lecturer.  
Credit Points: 12 Contact Hours: 3 per week

■ **HMB330 PHYSICAL EDUCATION CURRICULUM & TEACHING STUDIES 3**

Last in the Curriculum and Teaching Studies series for fourth year students in 1993. This unit has a major focus on contemporary issues and emerging trends in curriculum development; advanced planning and teaching strategies; opportunities for application of skills during practice teaching.

Course: ED50 Prerequisites: HMB310, HMB320  
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 for the attainment of optimal health.

Course: ED50  
Credit Points: 12

Prerequisite: PUB327  
Contact Hours: 3 per week

■ **HMB333 CHILD & ADOLESCENT HEALTH**

Child and adolescent health and the wide range of factors that impact on the health of individuals in these two crucial stages of life. An analysis is made of skills required for health enhancing behaviours and experience provided in some of the skills needed to assess and maintain the health status of children.

Courses: ED50, ED51  
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 specialise in three sports such as archery, golf, orienteering, fencing, squash, table tennis.

Course: ED50  
Credit Points: 12 Contact Hours: 4 per week

■ **HMB337 ORGANISATION & MANAGEMENT IN PHYSICAL EDUCATION & SPORT**

School physical education departments and sporting associations are middle-sized organisations requiring direction for servicing a large client base with a fluctuating budget. In this unit students examine the role of administrators, management and leadership styles, and the administration of monies, facilities and human resources in a sports setting.

Course: ED50  
Credit Points: 12 Contact Hours: 3 per week

■ **HMB340 PHYSICAL EDUCATION CURRICULUM STUDIES IB**

This unit is designed only for those students who have chosen to do a double major in physical education. It extends the understanding developed in HMB310 and focuses particularly on teaching within the classroom setting. Students are introduced to strategies used to develop higher order thinking skills and are encouraged to experiment with their use.

Course: ED50  
Credit Points: 12 Contact Hours: 3 per week

■ **HMB341 SPORTING & CAMPING ADMINISTRATION**

The primary school physical educator is responsible for the organisation of educational programs both at school and in other educational and sporting settings. This elective unit assists students in understanding and organising a variety of sporting tournaments, carnivals and camping programs as educationally sound, safe and enjoyable experiences for children.

Course: ED51  
Credit Points: 12 Contact Hours: 3 per week

■ **HMB342 THE DEVELOPMENT OF TEACHING SKILLS IN PHYSICAL EDUCATION**

This unit is designed around micro-teaching and involves student teachers, children and their working environment in schools. It promotes excellence in teaching, preparation and planning with an emphasis on active learning and research. Physical education teacher education students develop a greater understanding of their prospective working environment.

Course: ED51  
Credit Points: 12 Contact Hours: 3 per week

**HMB343 ENVIRONMENTAL HEALTH**

The focus of this curriculum elective unit is on educational responses to the growing concern about environmental hazards and their detrimental effects on human health. Emphasis on the curriculum implications of knowledge will assist children to make a positive contribution to health policy.

Course: ED51

Credit Points: 12 Contact Hours: 3 per week

**HMB344 HUMAN RELATIONSHIPS EDUCATION**

This curriculum elective unit has a dual focus: effective interpersonal communication by teachers as members of the school community; and the curriculum and pedagogical process for teaching children. Care, personal development, work experience and community-based learning characterise these curriculum programs. Students are introduced to these processes through lectures, seminars, workshops and appropriate field study experiences.

Course: ED51

Credit Points: 12 Contact Hours: 3 per week

**HMB345 MOTOR DEVELOPMENT & PERFORMANCE IN DISABLED CHILDREN**

In this unit students examine the effects of a wide range of intellectual, sensory, neurological, orthopaedic and physiological disorders on the motor development and performance of children. Assessment techniques for evaluating motor development and performance are combined with program planning and implementation with specific cases.

Course: ED51

Credit Points: 12 Contact Hours: 3 per week

**HMB350 PHYSICAL EDUCATION CURRICULUM & TEACHING STUDIES 2B**

This unit is designed for double major students and extends their studies in HMB320 with particular emphasis on evaluation in all areas of physical education. Students gain experience in devising different assessment items and in developing student profiles.

Course: ED50 Prerequisites: HMB320, HMB340  
Credit Points: 12 Contact Hours: 3 per week

**HMB360 PHYSICAL EDUCATION CURRICULUM & TEACHING STUDIES 3B**

This unit is designed for fourth year double major students due to graduate in 1993 and focuses on their entry into the profession as a beginning teacher.

Course: ED50 Prerequisites: HMB330, HMB350  
Credit Points: 12 Contact Hours: 3 per week

**HMB361 FUNCTIONAL ANATOMY 2**

Anthropometric protocols for the measurement of the body; morphological considerations: changes in body size and composition including skeletal, muscle and fat mass; body composition assessment methods: direct and indirect methods suitable to laboratory and field settings: somatotyping, maturation and performance; postural implications; exercise.

Course: HM42

Credit Points: 12 Contact Hours: 4 per week

**HMB362 BIOMECHANICS 2**

Research techniques within biomechanics; analysis of force systems; photographic, cinematographic; goniometric and electrographic analysis of movement; mass of inertial characteristics of the human body and biomechanical models.

Course: HM42

Credit Points: 12 Prerequisite: HMB272  
Contact Hours: 4 per week

**HMB363 INDEPENDENT STUDY**

To meet the specific interest of students beyond content offered within existing units; conceptualise, plan and execute a research study including survey of literature, development of an action plan, reflection on a practice or situation, and proposal for future action. The student works at an advanced level and autonomously under the supervision of a lecturer.

Course: HM42

Credit Points: 12 Contact Hours: 4 per week

**HMB364 SEMINARS IN HUMAN MOVEMENT**

Offered to capitalise on the expertise of resident or visiting staff, special needs and interests of students, and to create flexibility in unit offerings. These may include special expertise, high quality limited period research projects, seminars, conferences and new initiatives by staff and students. An interest group will study the area chosen cooperatively.

Course: HM42

Credit Points: 12 Contact Hours: 4 per week

**HMB370 PHYSICAL EDUCATION CURRICULUM STUDIES 2**

The focus of this unit is divided between issues and directions of current trends in curriculum development and advanced strategies used to achieve variety in the presentation of indoor and outdoor lessons.

Course: ED50

Credit Points: 12 Prerequisite: HMB310  
Contact Hours: 3 per week

**HMB371 MOTOR CONTROL & LEARNING 2**

Major recent theories in motor control and learning; centralist and peripheralist theories; concepts of coordination and skill; control and learning of complex movements; interlimb coordination; interacting schemas; visual-spatial, force and temporal aspects and sequencing of complex movements. Research design in motor control and learning.

Course: HM42

Credit Points: 12 Prerequisite: HMB271  
Contact Hours: 3 per week

**HMB372 BIOPHYSICAL BASES OF MOVEMENT/REHABILITATION**

Overview of rehabilitation including medico-legal aspects; health professionals in the rehabilitation process; exercise specialist, medical practitioner, physiotherapist, specialist physician; exercise prescription: overview of responses to injury implications for exercise programs; modalities of treatment: exercise and rest; immobilisation, cryotherapy and hydrotherapy; exercise prescription rehabilitation.

Course: HM42

Credit Points: 12 Contact Hours: 3 per week

**HMB374 PSYCHOLOGY OF REHABILITATION**

Practical application of psychological skills beneficial to the physical and psychological rehabilitative process: topics include: specific rehabilitation strategies; vicarious ego support; trauma from athletics; psychological process; disabled athletes.

Course: HM42

Credit Points: 12 Prerequisite: HMB275  
Contact Hours: 3 per week

**HMB375 ADAPTED PHYSICAL ACTIVITY**

Similarities and differences in the motor development and performance with intellectual, sensory, neurological, physiological, orthopaedic, musculoskeletal and cardio-respiratory conditions; assessment and programming for individuals with impairments including program organisation and service

delivery models; importance of fitness, sport and leisure for disabled individuals in mainstreamed and disorder specific groups; dance and aquatics.

Course: HM42

Prerequisite: HMB271

Credit Points: 12 Contact Hours: 4 per week

### ■ HMB376 MOTOR DEVELOPMENT IN CHILDREN

Theoretical perspective of normal and abnormal motor development, incorporating maturational, descriptive and behavioral aspects; underlying sensory, perceptual, neurological and cognitive changes which influence motor development in children. A theoretical understanding of gross and fine movement behaviour; and intellectually disabled, auditorily impaired and neurologically impaired children. Programs for motor impaired children.

Course: HM42

Prerequisite: HMB271 or at lecturer's discretion.

Credit Points: 12 Contact Hours: 4 per week

### ■ HMB377 CHILDREN IN SPORT

Physical development of the young athlete; physical maturation; benefits of participation in sport and physical activity; psycho-social issues; positive and negative effects of participation including competitive stress; injuries to the growing skeleton; overtraining, overuse injuries; strength training in childhood and adolescence; promotion of safety in sport; accreditation of teachers and coaches, policy guidelines for junior sport, Aussie sport program.

Course: HM42

Credit Points: 12 Contact Hours: 3 per week

### ■ HMB380 PHYSICAL EDUCATION CURRICULUM STUDIES 2B

This unit is designed only for those students doing a double major in physical education and focuses particularly on the areas of assessment and the use of action research in curriculum innovation. Students are required to undertake individual projects which allow them to practise critical reflection and autonomous learning in their pursuit of knowledge.

Course: ED50

Prerequisite: HMB340

Credit Points: 12 Contact Hours: 3 per week

### ■ HMB381 EXERCISE PHYSIOLOGY 2

Theoretical component: an extension of material covered in exercise physiology; respiratory, circulatory, and muscular systems; cardiac dynamics; hormonal and biochemical aspects of exercise. Laboratory component: familiarity with all equipment in the laboratory; testing procedures and methodology; interpretation and evaluation of results.

Course: HM42

Prerequisite: HMB273 Co-requisite: HMB382

Credit Points: 12 Contact Hours: 3 per week

### ■ HMB382 EXERCISE PRESCRIPTION

Students research and analyse the physiological methods and procedures used in training and conditioning programs of all forms and levels of physical activity. The conditioning needs of specific populations are studied. The application of fitness assessment and exercise prescription is an integral aspect.

Course: HM42

Prerequisite: HMB273 or at lecturer's discretion.

Credit Points: 12 Contact Hours: 3 per week

### ■ HMB383 WORKPLACE HEALTH

The historical and current position of workplace health as one emerging focus of occupational health and safety. Issues, laws, policies, programs and union, employer and employer perspective are analysed in

conjunction with the role of workplace health professionals. The planning, development, promotion, implementation and administration of programs from a fitness counsellor's perspective.

Course: HM42

Credit Points: 12 Contact Hours: 3 per week

### ■ HMB384 INJURY PREVENTION & REHABILITATION

Roles and responsibilities of health professionals: first aid, injury prevention, rehabilitation, health training and facility management; prevention of injury: conditioning and fitness components, methods of evaluation of performance, personal responsibilities, protective equipment; types of injury: primary (indirect, direct and overuse) and secondary; structural classification of injury; procedures for management and rehabilitation: specific injuries.

Course: HM42

Credit Points: 12 Contact Hours: 3 per week

### ■ HMB390 HEALTH EDUCATION CURRICULUM STUDIES I

The nature of health education as an applied curriculum area. Insights into relevant Queensland syllabus and curriculum documents are provided; competencies in planning and teaching are developed and close links are made with teaching practice.

Course: ED50

Prerequisites: EDB323 and at least 48 credit points in the relevant discipline area

Credit Points: 12 Contact Hours: 3 per week

### ■ HMB391 PROMOTION OF PHYSICAL ACTIVITY

Physical education departments, schools and sports organisations are constantly seeking funds, participants and spectators, and often the limiting factor is the low profile of the groups concerned. In this unit students examine the role of marketing and promotion, identify client and market mix, and develop strategies for the promotion and funding of activities.

Course: ED50

Credit Points: 12 Contact Hours: 3 per week

### ■ HMB392 ORGANISING TOURNAMENTS & EVENTS

Competition is fundamental to all sports whether it be against oneself or another party. In this unit the philosophies related to competition and award systems for a varying client mix are examined; the complexities of, and skills required for, organisation of major sporting events in schools and other settings are discussed; and utilisation of human and facility resources in these settings is considered.

Course: ED50

Credit Points: 12 Contact Hours: 3 per week

### ■ HMB393 SPORT & EQUITY

The inequalities that exist in society's major institutions, with particular reference to sport and physical education. The aim is to develop knowledge of government policy and legislation regarding equity in public, private and corporate establishments, as well as within educational settings.

Course: ED50

Prerequisite: HMB321 or HMB394 or consent of lecturer

Credit Points: 12 Contact Hours: 3 per week

### ■ HMB394 HISTORY OF PHYSICAL EDUCATION & SPORT

The historical evolution of physical education, sports and games with their role and relevance in societies

past and present. It extends the historical focus of HMB313 Socio-Cultural Foundations of Physical Activity and, itself provides the foundation for contemporary analyses of sport in society.

**Course:** ED50

**Credit Points:** 12

**Prerequisite:** HMB313

**Contact Hours:** 3 per week

### ■ HMB395 HEALTH EDUCATION CURRICULUM STUDIES 2

The focus of this unit is divided between issues and directions associated with current trends in curriculum development and advanced strategies used to achieve variety in the presentation of health lessons.

**Course:** ED50

**Credit Points:** 12

**Prerequisite:** HMB390

**Contact Hours:** 3 per week

### ■ HMB410 PHYSICAL EDUCATION CURRICULUM: SECONDARY

The factors responsible for current physical education curriculum development. Emerging trends are studied to highlight the implications for physical education programs; challenges the student to design a secondary curriculum that reflects current trends.

**Courses:** ED26, ED32

**Credit Points:** 12

**Contact Hours:** 3 per week

### ■ HMB411 PHYSICAL EDUCATION CURRICULUM: PRIMARY

The notion of the teacher of physical education and the classroom teacher reflecting on their experiences is of prime import to the nature of this unit. An examination of the principles and procedures which are used within the physical education curriculum and the individual's classwork is central to the outcome. Action research methods are explained and linked to the sociological qualities of current curriculum practices. These issues relate to individual relationships within the physical education settings.

**Courses:** ED26, ED31

**Credit Points:** 12

**Contact Hours:** 3 per week

### ■ HMB412 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.

**Course:** ED26

**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.

**Course:** ED26

**Credit Points:** 12

**Contact Hours:** 3 per week

### ■ HMB441 SOCIOLOGY OF SPORT

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.

**Course:** ED26

**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 against a school and club setting.

**Course:** ED26

**Credit Points:** 12

**Contact Hours:** 3 per week

### ■ HMB471 PROJECT 1

Students in the Bachelor of Applied Science are required to undertake a project in Year 4. Students will work in small groups on original topics. Work will include: a literature review and the presentation of experimental hypotheses, research methodology and analysis procedures. Groups will present a formal colloquium at the end of Semester 1.

**Course:** HM42

**Credit Points:** 12

**Contact Hours:** 3 per week

### ■ HMB472 PROJECT 2

The implementation of the plan, the analysis of results and publication of a report. Groups present a formal colloquium at the end of Semester 2.

**Course:** HM42

**Credit Points:** 12

**Contact Hours:** 3 per week

### ■ HMB473 PRACTICUM 1

A structured and supervised initial vocational experience linked to the student's specialised strand of study: the reality of the workplace; professional expectations; work ethics; client contact; the range of environments in the sport industry; practical application of specialist knowledge and skills in clinic settings. Reflective analysis of the experience.

**Course:** HM42

**Credit Points:** 12

**Contact Hours:** 3 per week

### ■ HMB474 PRACTICUM 2

As an extension of HMB473, an intense vocational experience undertaken as an internship over a minimum period of twenty days full-time employment: operational tasks to include management and administration; independent professional skills and knowledge; full client services illustrating effective communication skills and a comprehensive reflective analysis of the internship.

**Course:** HM42

**Credit Points:** 24

### ■ HMB801 SPORT & MASS MEDIA

The commercialisation and development of sport and the mass media are inextricably linked and the nature and implications of this relationship will be the foundation for the investigation of this unit. This unit will examine the past, present and future aspects of this relationship through examination of current issues.

**Course:** BS50

**Credit Points:** 12

**Contact Hours:** 3 per week

### ■ HMB802 STRUCTURE & POLICY IN AUSTRALIAN SPORT

An understanding of the structure and policies of Australian sport is fundamental for administrators who are required to operate through the levels of government for the conduct, promotion and funding of their chosen sport. The relevant documentation and strategies for operating within the system.

**Course:** BS50

**Credit Points:** 12

**Contact Hours:** 3 per week

**■ HMN601 EXERCISE & HEALTH ACROSS THE LIFESPAN**

Physical activity is almost universally accepted as being relevant to health, although the pattern of activity (nature, intensity, frequency and duration of individual exercise bouts, cumulative years of participation) required to induce maximum health benefits remains uncertain. Exercise throughout the lifespan and the implications for good health.

Course: HL88

Credit Points: 12 Contact Hours: 3 per week

**■ HMN602 READINGS IN HUMAN MOVEMENT STUDIES**

This unit enables students to explore the breadth of their chosen subdiscipline in contrast to the more specific focus of their thesis topic to follow. This unit provides the opportunity for students to develop a compendium of readings in an area(s) not catered for in other units comprising their specialisation. Students select advanced readings in their chosen field and submit a comprehensive annotated bibliography that critically reviews the available literature. This work is conducted under the supervision of a lecturer allied to the chosen area of study.

Course: HL88

Credit Points: 12 Contact Hours: 3 per week

**■ HMN603 SCIENTIFIC BASES OF HUMAN PERFORMANCE**

This unit provides the opportunity to develop theoretical and practical knowledge of selected topics representative of the scientific bases of human performance. Topics include: material from the recognised sub-disciplines of human movement science, functional anatomy, biomechanics, and exercise physiology. The unit investigates changes in the human energy systems, musculo-skeletal system and cardiovascular system that occur when the body is placed in a physically stressful situation (exercise being the predominant stressor considered). Specific applications to the physical activity setting.

Course: HL88

Credit Points: 12 Contact Hours: 3 per week

**■ HMN604 SOCIAL ISSUES IN SPORT**

An advanced in depth analysis of the diverse social issues which have permeated sport in Australia. The necessity for a critical cultural analysis has been necessitated by issues such as discrimination, violence, drugs, elitism, ethnocentrism, internationalism, politicisation, commercialisation and quantification. The focus will be on the analysis of the nature, role and significance of sport in modern society. The unit is designed for professionals and practitioners in the field of sport and physical activity who are in the corporate setting, educational domain and government and community departments.

Course: HL88

Credit Points: 12 Contact Hours: 3 per week

**■ HMP014 SCHOOL HEALTH EDUCATION**

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.

Course: ED31

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.

Courses: ED31, PU69

Credit Points: 12

Prerequisite: HMP014

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. A conceptual framework for alternatives in teaching strategies and 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.

Course: ED32

Co-requisite: EDP450

Prerequisite: Appropriate discipline studies in the undergraduate degree

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.

Course: ED32

Prerequisite: HMP420

Co-requisite: EDP451

Credit Points: 12

Contact Hours: 3 per week

**■ HMP423 OUTDOOR EDUCATION CURRICULUM & TEACHING STUDIES C**

This Curriculum C unit provides opportunities for students with an appropriate background to prepare to teach outdoor education. 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 units.

Course: ED32

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.

Course: BS50

Prerequisite: HRB130

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.

Course: BS50

Prerequisite: HRB120 or HRN104

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.

Course: BS50

Prerequisite: HRB114 or HRN105

Credit Points: 12

Contact Hours: 3 per week



**■ HRB103 EMPLOYMENT REGULATION & ADMINISTRATION**

The formal and informal arrangements operating upon the employment relationship and constraining its administration; the complexity of the employment relationship is examined in the light of the legal, political and social constraints which impact on it; the practical and operational implications of the types of regulations as well as to their broader social significance; the dynamism of employment regulation.

**Course:** BS50

**Prerequisite:** HRB131 or HRN104

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ HRB104 FOUNDATION HR 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.

**Course:** BS50      **Prerequisite:** HRB130 or HRN108

**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 unit.

**Courses:** BS50, BS74

**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; preparation of a report for the organisation.

**Course:** BS50      **Prerequisite:** BSB102 or HRN104

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ HRB107 INDEPENDENT STUDY HRD**

Enables students to demonstrate a competence in directing their own learning; essential for professionals who must subsequently keep themselves up-to-date in their area of expertise; 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.

**Course:** BS50

**Prerequisites:** HRB101 and HRB104

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ HRB108 INDEPENDENT STUDY HRM**

Enables students to demonstrate an ability to direct their own learning, a key competence for professionals who must keep themselves up-to-date in their area of expertise; 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.

**Course:** BS50

**Prerequisite:** Must have completed at least 48 credit points from the HRM major

**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. It focuses on employment relationships, organisation of work and productivity. Comparative industrial democracy especially Britain, Spain, Sweden, Germany and Japan and their relevance to Australia.

**Course:** BS50      **Prerequisite:** HRB131 or HRN105

**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.

**Course:** BS50      **Prerequisite:** HRB131 or HRN105

**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.

**Course:** EE43

**Credit Points:** 6      **Contact Hours:** 3 per week

**■ HRB112 INDUSTRIAL RELATIONS**

The industrial relations system in Australia; federal and state conciliation and arbitration systems, extent of jurisdiction; industrial relations issues: 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.

**Course:** CN31

**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.

**Course:** BS50

**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.

**Course:** BS50

**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 these policies.

**Course:** BS50      **Prerequisite:** HRB114 or HRN105

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ HRB116 INNOVATION & ENTREPRENEURSHIP**

The nature and processes of innovation and new venture creation; assessment of the entrepreneur and new venture team, as well as the business opportunity and the resources required; methods of establishing ventures along with legal and financing issues; problems with, and effective management strategies for innova-

tion; focuses on developing a comprehensive, professional standard business plan for a proposed new venture; the negotiation of new venture deals.

**Courses:** BS50, IF53

**Prerequisite:** BSB102 or HRN104

**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.

**Course:** BS50 **Prerequisite:** HRB131 or HRN104

**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.

**Course:** BS50 **Prerequisite:** BSB102 or HRN104

**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 the human skills required to facilitate the development of others, either in individual interaction or group interaction.

**Course:** BS50 **Prerequisite:** HRB131 or HRN104

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ HRB120 INTRODUCTORY TRAINING & DEVELOPMENT

The knowledge and competencies required of a beginning or an occasional trainer; theories, research and skill development; 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; administering a training course; evaluating learning, writing and scoring test items; follow-up training.

**Course:** BS50

**Prerequisite:** Must have completed at least 96 credit points prior to enrolment.

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ HRB121 MANAGEMENT

The theory and practice of management; laying a foundation on which to build managerial knowledge and techniques through a life-time career. Functions of management; planning, organising, leading and controlling presented in the framework of a systems approach to decision making.

**Course:** EE44

**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.

**Course:** CH32

**Credit Points:** 4

**Contact Hours:** 2 per week

#### ■ HRB125 MANAGEMENT STRATEGY & POLICY

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.

**Course:** BS50

**Prerequisite:** BSB102. Students are advised to take HRB127 prior to attempting HRB125.

**Credit Points:** 12

**Contact Hours:** 3 per week

#### ■ HRB126 MANAGEMENT PROCESSES

Domain of management including self-management; techniques used in the task of managing.

**Courses:** BS50, IF52, IS43 **Prerequisite:** BSB102

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ HRB127 MANAGEMENT THEORY & ISSUES

Theories which explain the tasks and roles of managers; recent developments in management and organisational methods and issues.

**Course:** BS50

**Prerequisite:** BSB102

**Credit Points:** 12

**Contact Hours:** 3 per week

#### ■ HRB128 OCCUPATIONAL HEALTH & SAFETY MANAGEMENT

The working environment and its physical and psychological impact on staff; occupational health and safety issues and their management; ergonomics, human-machine interface and physical aspects of job design; competencies in conducting safety audits; safety programs and the management of the occupational health and safety functions.

**Course:** BS50 **Prerequisite:** HRB131 or HRN105

**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.

**Course:** BS50 **Prerequisite:** BSB102 or HRN104

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ HRB130 ORGANISATIONAL BEHAVIOUR

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, essential to anyone intending to influence the behaviour of others.

**Courses:** BS50, NS48, PU48

**Credit Points:** 12

**Contact Hours:** 3 per week

#### ■ HRB131 PERSONNEL MANAGEMENT & INDUSTRIAL RELATIONS

Influences impacting on personnel management and industrial relations; the theoretical foundations of personnel management and industrial relations.

**Courses:** BS50, IF52, IF53, IS43, IT20, NS48, PU44, PU48

**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 to equip students with skills necessary for starting a successful small business.

**Course:** OP42

**Credit Points:** 4      **Contact Hours:** 2 per week

**■ HRB134 RECRUITMENT & SELECTION**

This unit has an applied focus but draws 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: 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.

**Course:** BS50    **Prerequisite:** HRB105 or HRN104

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ HRB135 SMALL BUSINESS MANAGEMENT**

Australian small business and how to effectively manage a small business. Topics include: managing the functional areas of small businesses; meeting legal and governmental obligations; the management risk (insurance), theft and fraud; managing growth; managing small businesses with problems; personal management for small business.

**Courses:** BS50, ED23, ED50, IF53

**Prerequisite:** BSB102 or HRN104

**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; a range of historical features, professional and ethical matters are considered; an experiential approach based in cases and/or simulations is adopted.

**Course:** BS50    **Prerequisite:** HRB105 or HRN104

**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.

**Course:** BS50    **Prerequisite:** HRB131 or HRN105

**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.

**Course:** BS50    **Prerequisite:** HRB131 or HRN105

**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.

**Course:** BS50    **Prerequisite:** BSB102 or HRN104

**Credit Points:** 12      **Contact Hours:** 3 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.

**Course:** BS50    **Prerequisite:** HRB131 or HRN105

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ HRB146 SPECIAL TOPIC HRM**

Offered as required; aims to permit an in-depth examination of an issue of importance to HRM; content varies depending on the issue examined.

**Course:** BS50    **Prerequisite:** HRB131 or HRN104

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ HRB147 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; intraorganisational conflicts and negotiation.

**Course:** BS50    **Prerequisite:** BSB102 or HRN105

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ HRB150 COMPARATIVE INDUSTRIAL RELATIONS**

This unit examines industrial relations processes which operate under a range of social, economic, cultural and political arrangements. Emphasis is placed upon both European and Pacific-rim systems.

**Course:** BS50    **Prerequisite:** HRB131 or HRN105

**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.

**Course:** BS50    **Prerequisite:** HRB131 or HRN104

**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.

**Course:** BS50    **Prerequisite:** BSB102 or HRN104

**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.

**Courses:** BS62, IS10

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ HRN101 ADVANCED THEORY & COMPARATIVISM**

The historical and cultural factors of industrial relations; social theory and industrial relations, explanations of institutional development and the political economy of industrial relations; government inter-

vention in industrial relations and current developments in Australia, the EEC and South East Asia.

**Courses:** BS62, BS83

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ HRN104 INTRODUCTION TO MANAGEMENT

The functions and roles of managers; concepts and principles and their practical applications; 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 relevant academic disciplines.

**Courses:** BS74, BS78, BS81

**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; systems of regulation in the employment area; negotiating skills; the resources required for mobilising change in this area.

**Courses:** BS78, BS81, ED23

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ HRN106 MANAGEMENT, TECHNOLOGY & SOCIAL CHANGE

The development of management theory and an analysis of management within complex organisations. The unit focuses on managers as participants in an organisational dynamic that is both influenced by and influences such factors as the current state of technology, government and community pressures.

**Course:** BS83

**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 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 unit ends with a consideration of the future of organisations and changes.

**Course:** BS83

**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.

**Courses:** BS70, BS74, BS78, BS81, ED23

**Prerequisite:** HRN104

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ HRN112 BUSINESS POLICY

Develops a manager's knowledge, analytical understanding and action-taking competencies. The paradigm adopted is that of strategic management: analyses of stakeholders, environments and

capabilities, strategy formulation, and strategy implementation. Teaching methodologies emphasise the process of management as well as analysis, contents as well as concepts. At the conclusion of this unit, students should understand how and why strategic decisions are made, and be prepared to make them.

**Courses:** BS70, BS81, BS86

**Prerequisite:** HRN104

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ HRN113 MANAGEMENT FOR ENGINEERS

The staffing function; leadership and motivation principles and their application; time management; stress management; industrial relations systems and issues; personal and organisational communication; managing change; strategic management and the development of full, commercial business plans.

**Course:** ME76

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ HRN114 LEGAL & INDUSTRIAL REQUIREMENTS FOR QUALITY

The industrial relations and legal issues addressed in implementing TQM. These include the Australian industrial system, the requirements for occupational health and safety and the role of trade unions.

**Course:** BS86

**Credit Points:** 6 **Contact Hours:** 3 per week

#### ■ HRN115 CONTEMPORARY ISSUES IN HRM

Postgraduate students need to be familiar with the contemporary issues and the current theoretical and practical developments within their field of specialisation. These matters need to be pursued at a level of intellectual rigour beyond that required for an undergraduate degree. The main objective of this unit is to identify, analyse and report on contemporary issues in HRM. To research information relevant to identified topics. Content may vary according to which issues are current or predictably important in the future. Special expertise of staff, visiting scholars or distinguished HRM professional may be utilised.

**Courses:** BS62, BS83

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ HRN116 HRM CASES

This unit further develops students' capacity to analyse, evaluate and solve business problems and encourages them to develop the facility for independent thought and critical analysis. In this unit students will be required: (a) Examine a HR function in an organisation, and report observations. (b) Relate these observations to relevant theory and recent research. (c) Develop an integrated view of HR, including its functions, processes, stakeholders, and environment. Finally the unit will focus on any conceptual, theoretical, research, or practical material.

**Courses:** BS62, BS83

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ HRN117 INDUSTRIAL RELATIONS & WORK ORGANISATION

This unit will encourage students to develop critical awareness of current debates in the area. It will also develop the students' critical, analytical and intellectual powers at an advanced level. It will connect the social, organisational and legislative aspects of industrial design relation within an analytical framework, and will enhance knowledge of workplace studies. Through this unit students will be introduced to the social aspects of industrial organisation and industrial relations. Workplace studies are

included and associated legislative aspects. Concepts such as the new 'Managerialism'.

**Courses:** BS62, BS83

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ HRN118 ADVANCED READINGS IN MANAGEMENT

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.

**Courses:** BS62, BS83

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ HRN119 CURRENT ISSUES IN MANAGEMENT

Students examine in detail advanced theory and issues from their chosen field of study. Such study may include an analysis of the historical developments in the field, interconnections with other fields, current significant issues and practices (including ethics), and advanced methodology and/or statistics relevant to the field. The content may vary according to which issues are significant at the time, according to the special expertise of the staff (including visiting scholars and distinguished business leaders) and according to specific needs from thesis proposals.

**Courses:** BS62, BS83

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ HRP100 INTERNATIONAL INDUSTRIAL RELATIONS

The main structures, processes and contexts relevant to industrial relations; the different ways in which industrial relations have developed and operates. The comparative method, Japan, Sweden and Britain as industrial relations models.

**Course:** BS74

**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; behavioural concepts applied to the management of quality; intra-personal, interpersonal and social factors including leadership, motivation, attitudes, values, learning and organisational culture; ergonomics and workplace design and occupational health and safety.

**Course:** BS77

**Credit Points:** 6 **Contact Hours:** 3 per week

#### ■ HRP103 INDUSTRIAL RELATIONS STRATEGIES & POLICIES

Examination of policy formation in industrial relations at national and local levels in areas including wage policies, job security, job design, bargaining structure and union matters.

**Course:** BS74

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ HRP104 INDUSTRIAL RELATIONS PRACTICES

Industrial relations practices and policies; research techniques for industrial relations issues, case research, preparation and presentation; institutional framework of industrial relations practices in Australia.

**Course:** BS74

**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.

**Course:** BS74

**Credit Points:** 12 **Prerequisite:** HRP104 **Contact Hours:** 3 per week

#### ■ HRP106 INDUSTRIAL RELATIONS & SOCIETY

The economic and political context pertinent to Australian industrial relations; development of the economy, industry structure, labour markets, wage fixation, economic strategies and policies.

**Course:** BS74

**Credit Points:** 12 **Contact Hours:** 4 per week

#### ■ HRP107 INDUSTRIAL RELATIONS THEORY

The resolution and regulation of conflict in work and employment; theories of collective organisation; bipartite and tripartite schema of labour market regulation and workplace process.

**Course:** BS74

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ HRP108 QUALITY SYSTEM MANAGEMENT

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.

**Course:** BS77

**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.

**Course:** BS77

**Credit Points:** 6 **Contact Hours:** 3 per week

#### ■ HRP110 HUMAN RESOURCE MANAGEMENT

The importance of human resource management for organisational effectiveness and the quality of work life; human resource management from multiple constituency, functional and strategic perspectives; uses an open systems model to introduce some of the key processes of personnel management at a theoretical and skill level; fosters knowledge, analytical and operational competencies; topics include: human resource management models, HRM and organisational strategy, human resource planning/job analysis, recruitment and selection, training and development, equity and anti-discrimination.

**Course:** BS73 **Prerequisite:** HRN104 or HRP107

**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.

Course: BS10

Credit Points: 12      Contact Hours: 3 per week

### ■ HRX102 INDUSTRIAL RELATIONS INSTITUTIONS

An introductory analysis of the theory and practice of industrial relations; emphasis is placed on the role of the parties and the bargaining context in Australia.

Course: BS10

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.

Course: BS10

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.

Course: BS10

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.

Course: BS10

Prerequisite: HRX105

Credit Points: 12      Contact Hours: 3 per week

### ■ HRX110 WORKPLACE ISSUES

Policies on current industrial relations issues in the workforce. Australian and overseas initiatives.

Course: BS10

Credit Points: 12      Contact Hours: 3 per week

### ■ HRX111 SAFETY & INDUSTRIAL RELATIONS

Current systems and practices in occupational safety and health programs. Industrial relations system in Australia and the management techniques which may be employed to create a good industrial relations climate on a site or in an industry.

Course: CE21

Credit Points: 7      Contact Hours: 2 per week

### ■ HUB002 CONTEMPORARY MORAL PROBLEMS

The central questions of applied ethics and moral philosophy through an analysis of contemporary issues: uses of technology, genetic engineering, nuclear energy, overpopulation, environmentalism, war, terrorism, civil disobedience, pacifism, racism, sexism, abortion, euthanasia, suicide and sexuality.

Course: ED26

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; critical thinking in nursing practice.

Course: NS48

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; ethics and professional nursing practice.

Course: NS48

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); sociocultural factors and changes generating moral dilemmas in society; case studies of moral issues and moral decision-making; the ethics of teaching controversial issues and matters such as indoctrination and censorship in the context of human relationships education in the Queensland education system.

Course: ED50

Credit Points: 12      Contact Hours: 3 per week

### ■ HUB007 HEALTH & ETHICS

An introduction to ethics within a health care context. It particularly focuses on the role of health care educators exploring the ethical challenges confronting them and the ways in which they may cultivate moral sensitivity as part of community 'well-being'.

Credit Points: 12      Contact Hours: 3 per week

### ■ HUB111 APPROACHES TO LITERATURE

Introduction to theories and practice of literary criticism and cultural analysis. The unit applies theoretical approaches (including new criticism; structuralism and post-structuralism; Marxist, psychoanalytic and feminist perspectives) to the study of texts chosen from a variety of genres and media.

Course: ED26

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.

Course: ED50

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 used by geographers.

Course: ED50

Credit Points: 12      Contact Hours: 3 per week

### ■ HUB204 AUSTRALIAN GEOGRAPHICAL STUDIES

Consumer versus conserver values; resources development in Australia; distribution and structure of the Australian population; prospects for sustainable agriculture; energy resources, user patterns, future scenarios; industrialisation in Australia, technological change and resources development.

Course: ED50

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.

**Course:** ED50

**Prerequisite:** HUB201

**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 resources; evaluation of the impact of resources development on social and economic well-being and environmental quality; clarification of the concept of a just society in terms of resources development.

**Course:** ED50

**Prerequisites:** HUB200, HUB201, Introduction to Economics

**Credit Points:** 12

**Contact Hours:** 3 per week

**HUB311 THE STUDY OF HISTORY**

This unit provides an introduction of some of the key issues inherent in the study of history. It considers the role and importance of history for contemporary society and examines differing theories of history. It also considers the nature of the New History and evaluates the importance of historical studies in the socialisation process.

**Course:** ED26

**Credit Points:** 12

**Contact Hours:** 3 per week

**HUB312 ASIAN STUDIES**

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. Specifically designed for secondary school teachers with limited knowledge of Asia and Asian issues.

**Course:** ED26

**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.

**Course:** ED26

**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 Indonesian language.

**Course:** ED26

**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.

**Course:** ED41

**Credit Points:** 8

**Contact Hours:** 3 per week

**HUB419 LOTE 2**

This unit 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.

**Course:** ED41

**Prerequisite:** HUB418

**Credit Points:** 12

**Contact Hours:** 3 per week

**HUB600 AUSTRALIAN SOCIETY & CULTURE**

Historical, political, economic and cultural information about Australia and Australians; egalitarianism; religion, frontiers and rural Australia; the historical and future role of technology in Australia.

**Courses:** HU20, IF36

**Credit Points:** 12

**Contact Hours:** 3 per week

**HUB601 HUMAN IDENTITY & CHANGE**

What it means to be human; ways human identities (eg. cultural, sexual, professional) are created and transformed; issues of identity, morality and change confronting human units in their encounters with the demands of contemporary life.

**Courses:** HU20, IF36

**Credit Points:** 12

**Contact Hours:** 3 per week

**HUB602 THE HUMANITIES TRADITIONS**

Humanities traditions; current debates about the role of humanities in society; adopts a history of ideas approach in considering contributions of major writers from both western and eastern civilisations.

**Courses:** HU20, IF36

**Credit Points:** 12

**Contact Hours:** 3 per week

**HUB603 TEXTS & INTERPRETATION**

Active analysis of various texts selected from a cross-section of contexts, genres and media; contemporary methods of textual analysis and critical approaches to cultural studies; processes involved in the coding and decoding of signs; forms of narrative and the structuring of experience; the role of unconscious mental processes in the production and interpretation of texts; textual representations of gender.

**Courses:** ED50, HU20, IF36

**Credit Points:** 12

**Contact Hours:** 3 per week

**HUB610 APPROACHES TO ASIA/PACIFIC STUDIES**

A general introduction to the history and emerging political economy of the Asia/Pacific region; historical core/periphery structures; the ascent and decline of powerful imperial and new Asian cores such as Japan; systemic and anti-systemic movements and Australia's particular role in this region.

**Courses:** ED50, ED51, HU20, IF36

**Credit Points:** 12

**Contact Hours:** 3 per week

**HUB611 INDONESIAN SOCIAL GEOGRAPHY**

Indonesia's physical environment, human settlement and land use patterns; an historical profile; ethnic diversity, religious beliefs and political perspectives.

**Courses:** ED50, HU20, IF36

**Credit Points:** 12

**Contact Hours:** 3 per week

**HUB612 MODERN INDONESIAN STUDIES**

An understanding of contemporary Indonesia; regional political and economic influences including

ASEAN; domestic politics; demographic issues; Australia-Indonesian relationships.

**Courses:** ED50, ED51, HU20, IF36

**Credit Points:** 12 **Contact Hours:** 3 per week

■ **HUB613 SOCIAL GEOGRAPHY OF THAILAND**

A critical understanding of the geography and history of Thailand; its cultural and social diversity; geographical influences; the situation of cultural minorities; traditional agricultural systems; ancient and modern history; religious beliefs and practices.

**Courses:** ED50, HU20, IF36

**Credit Points:** 12 **Contact Hours:** 3 per week

■ **HUB614 CONTEMPORARY THAILAND**

Geopolitical and economic influences in the Asian region influencing contemporary Thailand; urbanisation and industrialisation; poverty; health and welfare; tourism and international aid.

**Courses:** ED50, HU20, IF36

**Credit Points:** 12 **Contact Hours:** 3 per week

■ **HUB615 MODERN CHINA & JAPAN**

Historical developments in China and Japan during the nineteenth and twentieth centuries; the sophistication and complexity of Chinese and Japanese societies; historical evidence to examine commonly held stereotypes of China and Japan; evaluates the recent history of the area.

**Courses:** ED50, ED51, HU20, IF36

**Credit Points:** 12 **Contact Hours:** 3 per week

■ **HUB616 MODERN INDIA & SOUTH-EAST ASIA**

A comparative study of the national independence struggles in India and Vietnam with some investigation of post-independence societies.

**Courses:** ED50, HU20, IF36

**Credit Points:** 12 **Contact Hours:** 3 per week

■ **HUB617 WOMEN, AID & DEVELOPMENT**

Challenges existing notions of development; evaluates current models of development and aid in terms of their implications for women; suggests that real development for women and their dependents requires a woman-centred approach.

**Courses:** ED50, HU20, IF36

**Credit Points:** 12 **Contact Hours:** 3 per week

■ **HUB618 ASIAN WOMEN: TRADITION, COLONISATION & REVOLUTION**

Uses case studies to provide a broad analysis of Asian women's experiences of tradition, colonialism and revolution; highlights the linkages between traditional culture, colonialism and revolution; provides an appreciation of both the historical experiences and some of the contemporary concerns of Asian women.

**Courses:** ED50, HU20, IF36

**Credit Points:** 12 **Contact Hours:** 3 per week

■ **HUB619 PACIFIC CULTURE CONTACT**

Key concepts including mobility, religion, morality, leadership, civilisation, society, change and continuity; develops an appreciation of culture and sensitivity towards those groups or individuals who do not share a particular cultural heritage; case studies and comparative analysis focus on the people of the Pacific at the time of initial European contact.

**Courses:** ED50, HU20, IF36

**Credit Points:** 12 **Contact Hours:** 3 per week

■ **HUB620 THE PACIFIC SINCE 1945**

Analyses the link between culture and history in a post-contact context of change and continuity in the

contemporary Pacific; overviews the events since 1945 that are important in the lives of Pacific Island people; presents key concepts including mobility, adaptation, change, tradition, continuity, modernisation, conflict and independence.

**Courses:** ED50, HU20, IF36

**Credit Points:** 12 **Contact Hours:** 3 per week

■ **HUB621 NORTH AMERICAN STUDIES**

A comparative approach to the histories of Canada, the United States and Mexico; key themes including patterns of early settlement, the development of political institutions, the treatment of minorities, and the interaction of these three nations up to the present.

**Courses:** ED50, HU20, IF36

**Credit Points:** 12 **Contact Hours:** 3 per week

■ **HUB622 LATIN AMERICAN STUDIES**

Uses case studies dealing with Latin American history and political economy from pre-conquest period to the present day; focuses on US/Latin American relations and contemporary systemic/anti-systemic cases such as the national security state doctrines of authoritarian Chile/Argentina and radical Cuba and Nicaragua.

**Courses:** ED50, HU20, IF36

**Credit Points:** 12 **Contact Hours:** 3 per week

■ **HUB623 ASIAN/PACIFIC POLITICAL STUDIES**

Studies the structural and ideological bases of Asia/Pacific leading countries within a broad world system overview; special emphasis on political models of development and cultural studies; case studies of systemic (eg. Taiwan) and non-systemic models (eg. NPA) are undertaken.

**Courses:** ED50, HU20, IF36

**Credit Points:** 12 **Contact Hours:** 3 per week

■ **HUB 625 AMERICAN LITERATURE**

This unit concentrates principally on twentieth century American literature in the years preceding World War II and in the post-war construction period to the present. Particular emphasis on major pre-occupations in literature and on the ways in which writers have responded to, and interpreted, political and social currents in the pre and post World War II periods.

**Courses:** ED50, HU20

**Credit Points:** 12 **Contact Hours:** 3 per week

■ **HUB641 INTRODUCTORY INDONESIAN 1**

An introduction to the development of the macro skills of speaking, listening, reading and writing in the Indonesian language; examines customs and language etiquette and non-verbal communication.

**Courses:** BS50, ED50, ED51, HU20, IF36

**Credit Points:** 12 **Contact Hours:** 5 per week

■ **HUB642 INTRODUCTORY INDONESIAN 2**

Develops macro skills in the Indonesian language; focuses on socio-cultural aspects of Indonesia; analytically studies the Indonesian language.

**Courses:** BS50, ED50, ED51, HU20

**Prerequisite:** HUB641

**Credit Points:** 12 **Contact Hours:** 5 per week

■ **HUB643 INDONESIAN LANGUAGE & CULTURE 3**

Students are expected to: communicate at an elementary level in Indonesian; analytically study the language; study traditional Indonesian literature.

**Courses:** BS50, ED50, ED51, HU20

**Prerequisite:** HUB642

**Credit Points:** 12 **Contact Hours:** 4 per week



**HUB644 INDONESIAN LANGUAGE & CULTURE 4**

Develops fluency in communicative activities; traditional and contemporary Indonesian literature.

**Courses:** BS50, ED50, ED51, HU20

**Prerequisite:** HUB643

**Credit Points:** 12 **Contact Hours:** 4 per week

**HUB645 INDONESIAN LANGUAGE & CULTURE 5**

Develops a high degree of proficiency in Indonesian; students are expected to understand the complex language structure; Indonesian media sources.

**Courses:** BS50, ED50, ED51, HU20

**Prerequisite:** HUB644

**Credit Points:** 12 **Contact Hours:** 4 per week

**HUB646 INDONESIAN LANGUAGE & CULTURE 6**

Develops maximum proficiency in Indonesian; emphasises fine tuning of speaking, listening, reading and writing; studies of Indonesian media sources.

**Courses:** BS50, ED50, ED51, HU20

**Prerequisite:** HUB644

**Credit Points:** 12 **Contact Hours:** 4 per week

**HUB647 INTERNATIONAL SUMMER SCHOOL OR EQUIVALENT**

This unit is held in residence at a designated foreign university for four to six weeks of concentrated learning; aims to enhance student's proficiency in the four macro skills; increases students understanding of the cultural context in which the target language is used.

**Courses:** ED50, HU20 **Credit Points:** 24

**HUB660 INTRODUCTORY JAPANESE 1**

Students with little or no previous experience in the Japanese language are introduced to the four skills of listening, speaking, reading and writing; hiragana script is studied from the outset and some simple kanji are introduced; appreciation of cultural aspects.

**Courses:** BS50, ED50, ED51, HU20, IF36

**Credit Points:** 12 **Contact Hours:** 5 per week

**HUB661 INTRODUCTORY JAPANESE 2**

Develops the four skills of listening, speaking, reading and writing using a communicative approach; katakana is introduced; students read controlled material incorporating hiragana, katakana and an increasing number of kanji; cultural issues are integrated with relevant language situations.

**Courses:** BS50, ED50, ED51, HU20

**Prerequisite:** HUB660

**Credit Points:** 12 **Contact Hours:** 5 per week

**HUB662 JAPANESE LANGUAGE & CULTURE 1**

This unit is for students who have studied Japanese for four to five years at secondary school; consolidates and further develops the four skills of listening, speaking, reading and writing through an integrated approach; cultural aspects in language situations.

**Courses:** BS50, ED50, ED51, HU20, IF36

**Prerequisite:** Year 12 Japanese or equivalent

**Credit Points:** 12 **Contact Hours:** 4 per week

**HUB663 JAPANESE LANGUAGE & CULTURE 2**

Consolidates and develops listening, speaking, reading and writing skills through an integrated approach; students read material written in hiragana, katakana and an increasing number of kanji; cultural aspects are incorporated within the relevant language situations.

**Courses:** BS50, ED50, ED51, HU20

**Prerequisite:** HUB662

**Credit Points:** 12 **Contact Hours:** 4 per week

**HUB664 JAPANESE LANGUAGE & CULTURE 3**

An intermediate level unit aiming to impart an understanding of the values stipulated for Japanese culture and society; enhances students' language skills.

**Courses:** BS50, ED50, ED51, HU20

**Prerequisite:** HUB663

**Credit Points:** 12 **Contact Hours:** 4 per week

**HUB665 JAPANESE LANGUAGE & CULTURE 4**

Continues the theme of understanding the values stipulated for Japanese culture and society; enhances students' language skills.

**Courses:** BS50, ED50, ED51, HU20

**Prerequisite:** HUB664

**Credit Points:** 12 **Contact Hours:** 4 per week

**HUB666 JAPANESE LANGUAGE & CULTURE 5**

Focuses on the Japanese media; extends skills in listening, speaking, reading and writing to an advanced level by exposure to natural language.

**Courses:** BS50, ED50, ED51, HU20

**Prerequisite:** HUB665

**Credit Points:** 12 **Contact Hours:** 4 per week

**HUB667 JAPANESE LANGUAGE & CULTURE 6**

Focuses on the media; extends students' linguistic skills to a level where they can access authentic media resources, express opinions and discuss issues.

**Courses:** BS50, ED50, ED51, HU20

**Prerequisite:** HUB665

**Credit Points:** 12 **Contact Hours:** 4 per week

**HUB670 INTRODUCTORY FRENCH 1**

Designed for students who have had little or no previous experience of French; develops a basis for further language acquisition and stresses oral/aural skills with some introduction to reading comprehension and writing in French.

**Courses:** BS50, ED50, ED51, HU20, IF36

**Credit Points:** 12 **Contact Hours:** 5 per week

**HUB671 INTRODUCTORY FRENCH 2**

Develops a range of language skills; stresses oral/aural skills; extends reading comprehension and writing in French.

**Courses:** BS50, ED50, ED51, HU20

**Prerequisite:** HUB670

**Credit Points:** 12 **Contact Hours:** 5 per week

**HUB672 FRENCH LANGUAGE & CULTURE 1**

Designed to meet the needs of students who have completed Year 12 French (or equivalent), focuses on speaking, listening and reading skills.

**Courses:** BS50, ED50, ED51, HU20, IF36

**Prerequisite:** Year 12 French or equivalent

**Credit Points:** 12 **Contact Hours:** 4 per week

**HUB673 FRENCH LANGUAGE & CULTURE 2**

Attention is paid to writing skills; emphasis on speaking, listening and to a lesser extent reading; aims to help students communicate orally with ease and confidence before embarking on a more sustained study of written French.

**Courses:** BS50, ED50, ED51, HU20

**Prerequisite:** HUB672

**Credit Points:** 12 **Contact Hours:** 4 per week

■ **HUB674 FRENCH LANGUAGE & CULTURE 3**

Further develops the four macro skills. Study of short stories from France and other French speaking places (Quebec, Pacific Islands, West Indies).

Courses: BS50, ED50, ED51, HU20

Prerequisite: HUB673

Credit Points: 12      Contact Hours: 4 per week

■ **HUB675 FRENCH LANGUAGE & CULTURE 4**

Equips students to debate issues or discuss texts, visual and written using verbal and non-verbal means; attention is paid to the four macro skills; the French media and how news is constructed in France.

Courses: BS50, ED50, ED51, HU20

Prerequisite: HUB674

Credit Points: 12      Contact Hours: 4 per week

■ **HUB676 FRENCH LANGUAGE & CULTURE 5**

Students are introduced to modern French theatre; continues the development of the four macro skills.

Courses: BS50, ED50, ED51, HU20

Prerequisite: HUB675

Credit Points: 12      Contact Hours: 4 per week

■ **HUB677 FRENCH LANGUAGE & CULTURE 6**

Introduces the works of selected French writers; two hours a week are spent on a study of French for academic purposes.

Courses: BS50, ED50, ED51, HU20

Prerequisite: HUB676

Credit Points: 12      Contact Hours: 4 per week

■ **HUB680 APPROACHES TO AUSTRALIAN STUDIES**

Introduces the Australian Studies major; focusses on cultural themes within Australian history; includes an examination of the shock felt by pre-1850s immigrants, racial conflict and naturalisation processes.

Courses: ED50, HU20, IF36

Credit Points: 12      Contact Hours: 3 per week

■ **HUB682 SOCIAL MOVEMENTS IN AUSTRALIA**

New social movements in Australia since the 1960s; includes green, women's, peace, Aboriginal and Third World development movements; comparison with overseas and old social movements.

Courses: ED50, HU20, IF36

Credit Points: 12      Contact Hours: 3 per week

■ **HUB683 AUSTRALIAN GEOGRAPHICAL STUDIES**

Expands the geographical understanding of students into the cultural area, enabling them to appreciate the significance and interrelationships of issues of people, land, resources, energy and technology.

Courses: ED50, HU20, IF36

Credit Points: 12      Contact Hours: 3 per week

■ **HUB684 MAKING SPACE: WOMEN'S ENVIRONMENT**

This unit considers the social and physical spaces occupied by women in our society and analyses the factors that maintain women's spatial inequality in Australia particularly rural women.

Course: ED50

Prerequisite: HUB760

Credit Points: 12      Contact Hours: 3 per week

■ **HUB685 RESOURCES, PLANNING & DEVELOPMENT**

This unit considers the various development options open to Australia. Attention is paid to Australia's economic history and current economic structures.

Courses: HU20, IF36

Credit Points: 12      Contact Hours: 3 per week

■ **HUB686 INTRODUCTION TO POLITICS: AN AUSTRALIAN PERSPECTIVE**

The institutional and ideological bases of political life in a democratic society such as Australia; examines ways in which political traditions, political parties, government and non-government organisations interact to make decisions.

Courses: ED50, HU20, IF36

Credit Points: 12      Contact Hours: 3 per week

■ **HUB687 CONTEMPORARY MORAL PROBLEMS: AN AUSTRALIAN PERSPECTIVE**

Introduction to 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.

Courses: HU20, IF36

Credit Points: 12      Contact Hours: 3 per week

■ **HUB690 THEMES IN AUSTRALIAN HISTORY**

Covers historical and cultural material on Australian mythologies and historiographies; European and Aboriginal understandings of the land; Aboriginal mapping and art; the construction and importance of cities; ways in which notions such as motherhood were enlisted in nationalism.

Courses: ED50, HU20, IF36

Credit Points: 12      Contact Hours: 3 per week

■ **HUB691 WOMEN'S PAST – WOMEN'S HISTORY TO FEMINIST HISTORIOGRAPHY**

Challenges a masculine version of history; considers the historiographical debate on the development of women's history in the Australian context; explores a range of issues including case studies of women's issues and experiences; encourages the process of documenting women's history via testimony.

Courses: ED50, HU20, IF36

Credit Points: 12      Contact Hours: 3 per week

■ **HUB692 CONSPIRACY & DISSENT IN AUSTRALIAN HISTORY**

Uses case studies to reflect conspiracies as well as protest movements in nineteenth and twentieth century Australia; includes nineteenth century land grab conspiracies; Aboriginal resistance; anti-war movements; the Petrov affair; the 1975 dismissal.

Courses: ED50, HU20, IF36

Credit Points: 12      Contact Hours: 3 per week

■ **HUB693 AUSTRALIAN RACE RELATIONS**

Race relations within Australia before and after British settlement and locates material within a comparative international framework. Theories of race, trade routes, racial violence and resistance.

Courses: ED50, HU20, IF36

Credit Points: 12      Contact Hours: 3 per week

■ **HUB700 ABORIGINAL & TORRES STRAIT ISLANDER CULTURE STUDIES**

An appreciation of the two distinct indigenous cultures of Australia; how external forces to Aboriginal

and Torres Strait Islander cultures caused social, economic and political changes; traditional family life and organisation.

**Courses:** ED50, HU20, IF36

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ HUB701 ABORIGINAL & TORRES STRAIT ISLANDER LITERATURE

Despite the fact that it represents the indigenous culture of Australia, the oral tradition of Aborigines and Torres Strait Islanders has only recently begun to be appreciated. By examining this tradition, its continuation to the present day and its transformation into published texts, this unit seeks to open the eyes of students to a different world view.

**Courses:** ED50, HU20, IF36

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ HUB702 THE AUSTRALIAN DREAMING: THE INDIGENOUS CONSTRUCTION

A philosophical overview of Aboriginal and Torres Strait Islander culture; draws upon a variety of conceptual approaches; examines theories which underpin indigenous constructions of reality.

**Courses:** HU20, IF36

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ HUB703 POLITICS & POLITICAL CULTURE IN INDIGENOUS AUSTRALIA

Addresses the issues underlying the multifaceted world of indigenous politics; land rights; language rights; health; education; fishing rights and heritage.

**Courses:** HU20, IF36

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ HUB710 AUSTRALIAN LITERARY STUDIES

A critical appreciation of various texts from Australia's literary tradition; considers the impact of social values, political and artistic movements upon literature production and genres; the dichotomy of mainstream and marginalised writing in various groups and periods of Australia's cultural traditions.

**Courses:** ED50, HU20, IF36

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ HUB711 AUSTRALIAN WOMEN'S WRITING

The literary contribution of Australian women writers from the nineteenth and twentieth centuries to Australian culture and society; focuses on a number of significant texts that raise crucial issues in their representation of women's lives and identities.

**Courses:** ED50, HU20, IF36

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ HUB712 AUSTRALIAN CHILDREN'S & ADOLESCENT FICTION

Children's and adolescent novels within the cultural context of nineteenth and twentieth century Australia; focuses on textual analysis of major generic types; considers issues such as race, gender, class and regionalism in fiction for young Australians.

**Courses:** ED50, HU20, IF36

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ HUB720 APPROACHES TO EUROPEAN STUDIES

A broad introduction to the major studies sequence in European studies; uses historical and literary perspectives to highlight major themes in the development of European society and culture.

**Courses:** ED50, HU20, IF36

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ HUB721 THE CLASSICAL WORLD TO 500AD

The emergence and development of European society from earliest times to 500 AD; in alternate semesters it examines the major political, social and economic trends in classical Greek or Roman society.

**Courses:** ED50, HU20, IF36

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ HUB722 FOUNDATIONS OF MODERN EUROPE

The formation of modern Europe from the late Middle Ages to the end of the nineteenth century; the emergence of secularism and the rise of nation states.

**Courses:** ED50, HU20, IF36

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ HUB723 EUROPE IN THE TWENTIETH CENTURY

Considers traumatic events of the twentieth century; emphasises significant trends in political, economic and social changes; examines the implications of the momentous changes which have taken place in Europe over the last few years.

**Courses:** ED50, HU20, IF36

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ HUB724 NINETEENTH CENTURY ENGLISH LITERATURE & CULTURE

Focuses on two major literary genres: the novel and poetry; their evolution and variety in a time of profound economic, political and social change in England between 1790 and 1880; examines the variety of response of a number of literary artists to these changes and the ways narrative and verse forms were adapted and evolved.

**Courses:** ED50, HU20, IF36

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ HUB725 TWENTIETH CENTURY ENGLISH LITERATURE & CULTURE

Critical analysis of key British literary texts of the twentieth century (prose, poetry, drama); the theoretical and cultural movements that underpin them.

**Courses:** ED50, HU20, IF36

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ HUB726 EUROPEAN LITERATURE & SOCIAL CHANGE

Uses a broadly defined European perspective to explore how literary texts respond to, influence and are in turn influenced by social and cultural forces; set texts are explored from a range of thematic perspectives: industrialisation and the impact of new technologies, war and civil unrest, political power and citizenship, colonialism and post-colonialism.

**Courses:** ED50, HU20, IF36

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ HUB727 EUROPEAN LITERATURE & IDENTITY

Selected European literary texts through the perspectives on identity and on the social, cultural and historical contexts; focuses on the accounts of writers from different periods and regions about identity eg. gender, individual development, sexual and social relations, normality and abnormality, crime and the problems of evil, imagination and fantasy.

**Courses:** ED50, HU20, IF36

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ HUB728 POPULAR LITERATURE

Explores the political and ideological functions of popular literature by studying texts from different popular genres (eg. romance, crime fiction; spy

thrillers; fantasy; science fiction; family sagas; horror; comics); methods of analysing the historical development of generic forms relating to the varying social contexts in which they are produced.

**Courses:** ED50, HU20, IF36

**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ HUB729 SHAKESPEARE IN THE MODERN WORLD

Shakespeare is examined both in his own time and the present to analyse the dominance of this cultural icon; emphasises recent theoretical and performance strategies in Shakespearean genre studies.

**Courses:** ED50, HU20, IF36

**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ HUB730 WOMEN'S WRITING & REPRESENTATION

Examines ways women have been represented in literary and non-literary texts; identifies cultural contexts in which women write and are represented; examines nineteenth and twentieth century texts by European writers by and about women.

**Courses:** ED50, HU20, IF36

**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ HUB735 INTRODUCTORY GERMAN 1

An introductory unit in the German language for students with little or no previous knowledge of German; equips students with some of the basic communication skills for a variety of everyday situations.

**Courses:** BS50, ED50, ED51, HU20, IF36

**Credit Points:** 12 **Contact Hours:** 5 per week

### ■ HUB736 INTRODUCTORY GERMAN 2

An intensive introductory unit in the German language; develops basic communication skills.

**Courses:** BS50, ED50, ED51, HU20

**Prerequisite:** HUB735

**Credit Points:** 12 **Contact Hours:** 5 per week

### ■ HUB737 GERMAN LANGUAGE & CULTURE 1

Designed for students who have completed Year 12 German or its equivalent; consolidates the four language skills of reading, writing, listening and speaking; introduces students to a selection of post-war literature from German-speaking countries.

**Courses:** BS50, ED50, ED51, HU20, IF36

**Prerequisite:** Year 12 German or equivalent

**Credit points:** 12 **Contact Hours:** 4 per week

### ■ HUB738 GERMAN LANGUAGE & CULTURE 2

Continues the consolidation of the four macro skills; aims to further cultural awareness through a study of some examples of contemporary German literature from East and West Germany.

**Courses:** BS50, ED50, ED51, HU20

**Prerequisite:** HUB737

**Credit Point:** 12 **Contact Hours:** 4 per week

### ■ HUB739 GERMAN LANGUAGE & CULTURE 3

Develops linguistic competence in the German language to a higher level; equips students with the language skills necessary for more demanding linguistic interactions and situations; an introduction to a major period in the development of German culture through a study of the German enlightenment and classical and romantic German texts.

**Courses:** BS50, ED50, ED51, HU20

**Prerequisite:** HUB738

**Credit Points:** 12 **Contact Hours:** 4 per week

### ■ HUB740 GERMAN LANGUAGE & CULTURE 4

Develops linguistic competence in the German language to a higher level; equips students with the language skills necessary for more demanding linguistic interactions; introduction to the major cultural traditions of the nineteenth century through a study of a selection of nineteenth century texts.

**Courses:** BS50, ED50, ED51, HU20

**Prerequisite:** HUB739

**Credit Points:** 12 **Contact Hours:** 4 per week

### ■ HUB741 GERMAN LANGUAGE & CULTURE 5

Develops linguistic competence in the German language to a more advanced level by extending students' vocabulary and range of registers and expressions; introduces the culture of modernity through the literary movements of modernism, expressionism and Viennese fin de siècle and the avant-garde.

**Courses:** BS50, ED50, ED51, HU20

**Prerequisite:** HUB740

**Credit Points:** 12 **Contact Hours:** 4 per week

### ■ HUB742 GERMAN LANGUAGE & CULTURE 6

Develops linguistic competence in the German language to a more advanced level necessary for dealing with more complex linguistic interactions and texts; provides a survey of post-war East and West German literature and a discussion of the problems of writing after Auschwitz and under the censorship.

**Courses:** BS50, ED50, ED51, HU20

**Prerequisite:** HUB740

**Credit Points:** 12 **Contact Hours:** 4 per week

### ■ HUB750 UNDERSTANDING ETHICS

Introduces students to the theory and practice of moral decision making; covers questions such as 'Why be moral?' 'What is the good or the right?' and 'How do we make moral decisions?'; questions are related to current practical ethical dilemmas.

**Course:** HU20

**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ HUB751 ETHICS & PUBLIC LIFE

The ethical dimensions of public and professional life; the ethical rights and responsibilities of the individual citizen and the State within a liberal democracy; the ethical responsibilities of institutional and professional agencies and the roles and ethical responsibilities of individual citizens in such agencies.

**Course:** HU20

**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ HUB752 THE JUST SOCIETY

Justice and concepts such as equity in various ethical and political traditions are applied to recent policy debates about affirmative action, the criminal justice system, political practice, health and the environment.

**Course:** HU20

**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ HUB753 ETHICAL DECISION-MAKING

The ways in which various decision-making practices can be morally grounded; the practical value of such procedures for human transformation and emancipation; the ways in which decision-making practices either sustain or subvert moral communities.

**Course:** HU20

**Credit Points:** 12 **Contact Hours:** 3 per week

**■ HUB754 FEMINISM & ETHICS**

Ethics is one of the major areas of philosophy. It has been transformed recently by the feminist critique of traditional ethics in conventional notions of masculinity and analytical rationality, and by the development of applied ethics, notably bioethics.

**Course:** HU20

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ HUB755 VULNERABLE IDENTITIES**

Vulnerability and the experiences of persons who are vulnerable due to exploitation, abandonment, confusion or suffering; ways of relating with the vulnerable; students develop a richer appreciation of others as well as themselves.

**Course:** HU20

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ HUB760 APPROACHES TO FEMINIST STUDIES**

Introduces a broad spectrum of issues related to feminist studies and to the major theoretical debates about gender in fields including literature, history, psychology, philosophy, sociology and ethics.

**Course:** HU20

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ HUB771 POLITICAL IDEOLOGIES**

A study of the political spectrum of ideologies and their intellectual foundations; the intellectual origins and nature of contemporary ideologies such as feminism, racism, and the green movement.

**Course:** HU20

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ HUP001 ETHICS & HUMAN RELATIONSHIPS EDUCATION**

Philosophical approaches to human relationships; moral philosophy and education; development of an integrated and clearly articulated agreement for a philosophy of human relationship education.

**Course:** ED50

**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.

**Courses:** IF51, IF52

**Prerequisite:** Successful completion of units totalling not less than 120 hours of weekly contact time

**Credit Points:** 4      **Contact Hours:** 2 per week

**■ IFN001 ADVANCED INFORMATION RETRIEVAL SKILLS**

This unit 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 unit include: using the QUT libraries; indexing and abstracting services; electronic information retrieval; developing a current awareness strategy; thesis writing; personal file management; evaluating information.

**Course:** BN78, PL69, SC60

**Credit Points:** 4      **Contact Hours:** 2 per week

**■ IFP222 PROJECT**

Students undertake a project in the area of Quality with the aim of developing a student's capacity for managing their 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 unit.

**Course:** BS77

**Credit Points:** 8      **Contact Hours:** 2 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.

**Courses:** CN31, CN32, CN33

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ ISB183 INTRODUCTION TO COMPUTERS IN PLANNING**

The use of computers in planning. Overview of computers; problems and advantages of computer use; hands on experience in using QUT's computer facilities, particularly PCs; 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.

**Course:** PL67

**Credit Points:** 4      **Contact Hours:** 1 per week

**■ ISB350 MINOR STUDIES**

Students undertake theoretical and/or practical work under supervision. Topics relate to other coursework.

**Courses:** IS10, IS43

**Credit Points:** 3      **Contact Hours:** 1 per week

**■ ISB360 MINOR STUDIES**

See ISB350.

**Courses:** IS10, IS43

**Credit Points:** 6      **Contact Hours:** 2 per week

**■ ISB370 MINOR STUDIES**

See ISB350.

**Courses:** IS10, IS43

**Credit Points:** 9      **Contact Hours:** 3 per week

**■ ISB382 MICROCOMPUTER APPLICATIONS**

Commercial microcomputer systems as they apply to science; 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.

**Courses:** LS36, PU42, PU44, PU45

**Credit Points:** 8      **Contact Hours:** 3 per week

**■ ISB385 MICROCOMPUTER SOFTWARE APPLICATIONS**

Provides 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.

Course: OP42

Credit Points: 4 Contact Hours: 2 per week

### ■ ISB393 COMPUTER BASED INFORMATION SYSTEMS

Introduces engineering students to commercial computer applications: systems concepts, file management and database systems. As practical work, the combination of database/spreadsheet package VP-Planner has been selected.

Course: EE44

Credit Points: 4 Contact Hours: 2 per week

### ■ ISB863 DATABASE THEORY & TECHNIQUES

Logical and physical models of information systems; characteristics; 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.

Course: ED50

Credit Points: 12 Contact Hours: 3 per week

### ■ ISB865 INFORMATION SYSTEM MODELLING

Modelling of information systems; relational systems; fact oriented approaches; conceptual schema design.

Course: ED50

Pre/Co-requisite: ISB863

Credit Points: 12 Contact Hours: 3 per week

### ■ ISB866 ARTIFICIAL INTELLIGENCE APPLICATIONS FOR EDUCATION

This unit studies Artificial Intelligence (AI) as a discipline impacting on education, philosophical issues, knowledge representation, reasoning and heuristic methods used in AI. A basic introduction to AI programming is also provided. It focuses particularly on AI applications which cross broad areas of the school curriculum and provides appropriate curriculum support for teachers of the AI topic within the Information Processing and Technology unit at secondary school level.

Course: ED50

Prerequisite: Software Development for Educational Contexts

Credit Points: 12 Contact Hours: 3 per week

### ■ ISB892 BUSINESS COMPUTING

Provides business students with a practical understanding of computers as used in various business environments; the theory of hardware, software, types of processing and data storage methods. Students gain 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.

Courses: AA21, BS50, ED50, IF31, PU48

Credit Points: 12 Contact Hours: 4 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.

Courses: CS36, CS55, IS50, IS61

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; how to formally specify a system; 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)

Courses: IS50, IS61

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.

Courses: IS50, IS61

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.

Courses: IS50, IS61

Prerequisite: ISB210

Credit Points: 12 Contact Hours: 3 per week

### ■ ISN160 KNOWLEDGE-BASED SYSTEMS

This unit 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.

Courses: IS50, IS61

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. It takes account of the very dynamic nature of the information systems field in allowing treatment of newly emerged

topic areas. Use of specialist knowledge and skills among the information systems staff at the time.

**Courses:** IS50, IS61

**Prerequisite:** See School announcements.

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ ISN180 HUMAN COMPUTER INTERFACE

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; 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, students should be able to apply principles from the current research in different aspects of HCI interactions and will be aware of future developments in this field.

**Course:** IS50

**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.

**Course:** IS50

**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.

**Course:** IS50

**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.

**Courses:** IS50, IS61

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ ISN210 AUTOMATED SYSTEMS MANAGEMENT

Identification of management challenges entailed by automated systems; the development of system specifications and Request for Proposal; evaluation of proposals; contracts and legal responsibilities; staff training and development; the effect on management structure of centralised versus distributed systems and of upgrading automated systems.

**Course:** IS50

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ ISN211 HONOURS PROJECT

A continuation and completion of the research project initiated for ISN201.

**Course:** IS61

**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.

**Course:** IS50

**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.

**Course:** IS50

**Prerequisite:** ISP432

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ ISN250 THE INFORMATION INDUSTRIES

Information industries and 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; the information society.

**Course:** IS50

**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.

**Course:** IS50

**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.

**Course:** IS50

**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; socio-technical areas and sys-

tem failures; strategies to deal with system failures; the role of information in organisations and its symbiotic relationship; constraints and alternatives.

Course: IS50

Credit Points: 12 Contact Hours: 3 per week

#### ■ ISN290 CURRENT ADVANCES IN DATABASE TECHNOLOGY

Current research activities and development in the area of the next generation database systems; a mixture of research papers and lecture notes on existing systems; practical and theoretical methodologies.

Course: IS50

Prerequisite: knowledge of database systems.

Credit Points: 12 Contact Hours: 3 per week

#### ■ ISN300 INFORMATION SYSTEMS 2

An advanced treatment of contemporary issues of information system development, particularly the development of corporate information systems.

Course: CS36, CS55

Prerequisite: ISN100

Credit Points: 12 Contact Hours: 3 per week

#### ■ ISN301 MINOR PROJECT

#### ■ ISN302 MINOR PROJECT

#### ■ ISN303 MINOR PROJECT

#### ■ ISN304 MINOR PROJECT

Students undertake a number of minor projects to 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 supervisor.

Course: IS50

Credit Points: 12

#### ■ ISN380 INFORMATION SYSTEMS & QUALITY

The application of information systems knowledge to enhance quality management; application of quality management principles in the development of computer-based information systems.

Course: BS86

Prerequisite: ISP380 or equivalent

Credit Points: 6 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 supervisor from the faculty staff.

Prerequisite: Completion of at least 50 per cent of the Master of Information Technology.

Course: IS50

Credit Points: 48

#### ■ ISN500 DISSERTATION

The undertaking and reporting of a significant piece of research work examining some aspect of concepts and principles dealt with in the coursework components of the program. The research topic will be agreed on following discussions between the student and a supervisor from the faculty staff. Each student will present a seminar on their dissertation topic.

Course: IS50

Prerequisite: Completion of at least 50 per cent of the Master of Information Technology.

Credit Points: 96

#### ■ 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 include: types of information

systems; information as a resource; past and current approaches; decision making based on information systems; analysis and design; prototype concepts; information system modelling.

Course: BS77

Credit Points: 6

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. Intended to extend students' competence in the design and management of data communications networks and to examine systems contributing to automation of the modern office.

Course: BS50, IS10

Prerequisite: ITB508 or ITP501 or equivalent

Credit Points: 12 Contact Hours: 3 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.

Course: ED25

Credit Points: 12

#### ■ ISP819 BOOKS & PUBLISHING

See ISP811.

Course: ED25

Credit Points: 10

#### ■ 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.

Courses: BS73, BS76

Credit Points: 12 Contact Hours: 3 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.

Course: IS08

Prerequisites: CSX025, CSX035

Credit Points: 12 Contact Hours: 3 per week

#### ■ ISX031 SOFTWARE DEVELOPMENT

Introduction to commercial software engineering; structured design, development and testing techniques; advanced COBOL; database programming.

Course: IS08

Prerequisite: ISX026

Credit Points: 12 Contact Hours: 3 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.

Course: IS08

Prerequisite: CSA025

Credit Points: 12 Contact Hours: 3 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.

Course: IS08

Prerequisite: ISX032

Credit Points: 12 Contact Hours: 3 per week



**■ ISX034 PROJECT**

Individual work related to an application of computers in business or other approved area.

**Course:** IS08

**Prerequisites:** ISX027 and other units 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.

**Course:** IS08

**Prerequisite:** ISX027

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ ITB001 COMPUTING PRACTICE (NOTE) 1**

Designed to coordinate the practical aspects of the lecture material presented so that students both develop essential practical skills and benefit from cross-fertilisation of the individual units.

**Course:** BN10

**Credit Points:** 6      **Contact Hours:** 1 per week

**■ ITB002 COMPUTING PRACTICE (NOTE) 2**

See ITB002.

**Course:** BN10

**Credit Points:** 6      **Contact Hours:** 1 per week

**■ ITB101 LABORATORY 1 (COMPUTING ENVIRONMENTS)**

Professionals in Information Technology must have an ability to work in a variety of computing environments and to utilise general application packages. This unit provides students with a practical experience in a range of computing environments from personal computers to mainframes. Students are encouraged to learn to work independently, adhere to appropriate standards, make use of relevant documentation and document their work in the form of structured technical reports. Students learn to connect to services directly and via networks, to use the basic functions of typical operating systems including file and directory manipulation, customisation of environments and the principles of backing-up and recovery. Students will use the basic functions of existing databases, wordprocessors and spreadsheets.

**Courses:** IF23, IF33, IF52, IS28, IS10, IS43, IT20

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ ITB102 LABORATORY 2 (COMPUTER APPLICATIONS)**

Professionals in information technology must have an ability to design and implement computer solutions for various applications using a variety of computing languages, systems and environments. This unit will provide students with the experience of designing, implementing and testing of software systems. This unit provides students with a practical experience in the design, implementation and testing of software systems. Emphasis will be on design documentation, user documentation, programming style, test documentation, the use of diagnostic aids, software monitors, analysis of results and test coverage, and the oral and written presentation of results.

**Courses:** IF23, IF33, IF52, IS28, IS10, IS43, IT20, IT32

**Prerequisite:** ITB101

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ ITB210 FORMAL REPRESENTATION**

This unit provides a foundation with regard to specification and implementation of information systems. As such, it gives an introduction to topics built

on in subsequent units, notably those in database and systems analysis and design. Topics covered include models; facts; sets; relations; relational algebra; proof strategies and techniques; SQL; facts and relations; fact-based analysis; defining the database; referential integrity; knowledge; schemas; state transitions.

**Courses:** IF23, IF33, IF52, IS28, IT20

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ ITB220 DATABASE DESIGN**

Databases are fundamental to current business data processing activities. This introduces the concepts and procedures involved in designing a database and implementing it within the relational model.

**Courses:** CS10, IF33, IF52, IS10, IS28, IS43, IT20

**Prerequisite:** ITB210

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ ITB221 LABORATORY 3 (COMMERCIAL PROGRAMMING)**

This unit aims to extend student skills in program design and implementation by applying them to typical commercial problems through a widely used third generation language. The task-oriented approach supplies a vehicle for reinforcing students' knowledge of elementary design and planning theory.

**Courses:** BS50, IF33, IS28, IT20

**Prerequisite:** ITB222

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ ITB222 SYSTEMS ANALYSIS & DESIGN 1**

Develops basic systems development skills by teaching a methodology and techniques of systems analysis and design. This unit gives an introduction to all the phases of the classical systems development life cycle. The aim is to give students a balanced overview of the process of analysing and designing information systems, while ensuring that students develop the necessary skills to apply the major techniques to simple problems. Emphasis is placed on the practical application of techniques to real-world problems.

**Courses:** BS50, CS19, IS28, IT20

**Prerequisite:** BSB103

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ ITB223 LABORATORY 4 (4GL Programming)**

Introduces the role of application generators and Fourth Generation Language technology in developing information systems. As well as using these tools to create programs from detailed specifications, students will develop standards for comparing the applicability of one environment with another.

**Courses:** CS28, IF33, IS28, IT20

**Prerequisite:** ITB220

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ ITB224 SYSTEMS ANALYSIS & DESIGN 2**

Expands upon the systems analysis and design techniques introduced in Systems Analysis and Design 1. Also, alternative approaches practiced in industry and other topics of importance are introduced. The aim is to provide students, who already have an overview of the unit, with an in-depth knowledge of key areas of systems analysis and design. Emphasis is placed on the practical application of techniques to problems.

**Courses:** CS19, IF33, IS10, IT20

**Prerequisite:** ITB222

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ ITB230 PROJECT**

The ability to apply knowledge and skills to real-life situations is essential for information systems professionals. A six-month project, under academic super-

vision, is considered useful in developing students' ability to apply their knowledge and skills.

**Courses:** IF33, IS28, IT20

**Prerequisites:** Successful completion of at least 72 credit points from the Information Systems major.

**Credit Points:** 12

#### ■ ITB231 APPLICATIONS DEVELOPMENT

This unit synthesises techniques and theory learned in earlier units by providing an opportunity for students to integrate these skills through team-based development of a major online system processing a database. The unit requires students to re-examine major design, programming and planning issues within the context of a 4GL software environment.

**Courses:** IS10, IS28, IT20

**Prerequisite:** ITB223

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ ITB232 DATABASE MANAGEMENT

The unit concentrates upon the functions of database management systems. There is an industry wide move to the use of DBMS methods of running an organisation's information resource. The unit exposes students to the ANSI/SPARC three schema architecture and its expansion in the ISO concepts and terminology for the conceptual schema and information base report. The unit concentrates on the three methods for internal schema organisation; network, hierarchical and relational.

**Courses:** CS19, IF33, IS10, IS28, IT20

**Prerequisite:** BSB103

**Co-requisite:** ITB210

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ ITB234 PROJECT

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 student/group is supervised by a staff member. In addition, there is a teaching contribution of one hour per week in first semester from the School of Communication, designed to develop the student's communication skills.

**Course:** IS10

**Prerequisites:** Successful completion of at least the equivalent of two-thirds of Bachelor of Business (Computing) and COB160.

**Credit Points:** 12

#### ■ ITB240 PROJECT

The ability to apply knowledge and skills to real-life situations is essential for information systems professionals. A six-month project, under academic supervision, is considered useful in developing students' ability to apply their knowledge and skills.

**Courses:** IS28, IT20

**Prerequisites:** Successful completion of at least 72 credit points from the Information Systems major.

**Credit Points:** 12

#### ■ ITB241 INFORMATION SYSTEMS MANAGEMENT

Information systems practitioners have responsibility for the acquisition of computer hardware and software and for its effective and efficient use. Many practitioners also have responsibility for managing other information systems personnel. This unit covers the knowledge and skills relevant to these planning, organising and staffing responsibilities.

**Courses:** IF33, IS10, IS28, IT20

**Prerequisite:** Completion of at least 60 credit points from units in the Information Systems major.

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ ITB242 DECISION SUPPORT SYSTEMS

There is increasing pressure for computer use to be closely aligned to organisational goals. Associated with this is an increasing emphasis for the computer to assist directly in the decision making process. This unit addresses issues relating to these factors.

**Courses:** BS50, IS10, IS28, IS43, IT20

**Prerequisite:** ITB222

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ ITB243 KNOWLEDGE-BASED SYSTEMS

Examines the requirements for and development of knowledge-based systems in modern mainstream computing; provides an understanding of the techniques used in capturing and automating knowledge; and gives practical experience in designing, implementing and maintaining knowledge-based systems using a variety of software tools.

**Courses:** IS10, IS28, IT20

**Prerequisite:** ITB222

**Co-requisite:** ITB220

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ ITB244 SPECIAL TOPIC 1

#### ■ ITB245 SPECIAL TOPIC 2

These units are designed to allow for the significant development of, or emphasis in, business computing not dealt with in other course units. Selected topics and study areas will be offered as required and when the necessary expertise is available. See School announcements for details of topics being offered.

**Courses:** IS10, IS28, IT20

**Prerequisite:** See School announcements.

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ ITB246 UNIX & C

Introduces students to the Unix operating system environment and to the C programming language. It covers the basics of both, and advanced topics relevant to software development under Unix and C. Emphasis is placed on the production of high quality software and documentation.

**Courses:** IS10, IS28, IT20

**Prerequisites:** ITB410, ITB412

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ ITB247 PROJECT

This provides for students to undertake a two-semester project. The work in one semester can be followed up in the second, or students can extend their practical skills through the second semester project.

**Course:** IT20

**Prerequisite:** Completion of at least 60 credit points from the Information Systems IT20 major.

**Credit Points:** 12

#### ■ ITB248 PROJECT

This unit allows students to undertake a large project in one semester.

**Course:** IT20

**Prerequisite:** Completion of at least 60 credit points from the Information Systems IT20 major.

**Credit Points:** 24

#### ■ ITB250 PROJECT

The ability to apply knowledge and skills to real-life situations is essential for people planning to work as information systems professionals. A one semester project, under academic supervision, is considered useful in developing students' ability to apply their knowledge and skills. As this unit is for students

intending to proceed to the Honours course, this project must include an evaluative component.

**Course:** IT20

**Prerequisite:** Successful completion of at least 72 credit points from the Information Systems major and 2 Pre-Honours units.

**Credit Points:** 12

### ■ ITB310 INFORMATION MANAGEMENT 1

The concept of information management has emerged from a number of disciplines, which have become more associated as a result of the development of information technologies. This unit reviews this development, and introduces the principles of information management as they are presently defined. It therefore identifies the basic processes involved in handling information in the context of an information life cycle, and introduces the concept of managing information as an organisational resource.

**Courses:** IF32, IF52, IS43, IT20

**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ ITB320 LABORATORY 3 (DATABASE APPLICATIONS)

Graduates from the course are expected to have skills in the creation, maintenance and utilisation of databases of various types. This unit gives them practical exposure to the tasks involved using higher level applications programming environments.

**Courses:** IF52, IS43, IT20

**Prerequisite:** ITB102

**Co-requisite:** ITB220

**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ ITB321 SYSTEMS ANALYSIS

In this unit information management draws on systems analysis as a central resource. Many of the techniques applied in systems analysis translate to information management. This unit gives an introduction to all phases of the classical systems development life cycle. The aim is to give students a balanced overview of the process of analysing information systems, while ensuring that students develop the necessary skills to apply the major techniques to information management problems.

**Courses:** IF52, IS43, IT20 **Prerequisite:** ITB210

**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ ITB322 INFORMATION RESOURCES

The ability to obtain accurate, up-to-date, business information on an ongoing basis is today accepted as an important component of competitive success.

**Courses:** IS43, IT20

**Prerequisite:** ITB310

**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ ITB323 LABORATORY 4 (INFORMATION SUPPORT METHODS)

Provides students with practical exposure to a range of methods that are used to support information management implementations.

**Courses:** IF52, IS43, IT20

**Prerequisite:** ITB320

**Co-requisite:** ITB520

**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ ITB330 INFORMATION ISSUES & VALUES

Concepts of information and the associated technology create fundamental issues for society particularly in the legal, political and social arenas. This unit explores the development of such concepts in order to create an awareness of both the indirect and direct impacts of information and the associated technology. Such an awareness is crucial in the effective direction of management of information.

**Courses:** IF52, IS43, IT20

**Prerequisite:** ITB322

**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ ITB331 INFORMATION MANAGEMENT 2 (ANALYSIS & USE)

Auditing information resources in an organisation; relating information provision to the information needs of end users, as well as to the strategic objectives of organisations.

**Courses:** IF52, IS43, IT20 **Prerequisites:** ITB310

**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ ITB340 PROJECT

The ability to apply knowledge and skills to real-life situations is essential information management professionals. A one semester project, under academic supervision, is considered useful in developing students' ability to apply their skills.

**Courses:** IS43, IT20

**Prerequisite:** Successful completion of at least 72 credit points from the Information Management major.

**Credit Points:** 12

### ■ ITB341 INFORMATION MANAGEMENT 3 (STRATEGY & PLANNING)

This unit pulls together many of the themes previously identified in the course of the information management major, with particular reference to information as a commodity and its use in strategic planning. It also deals with functions and practices of management that relate to provision of information services, and utilisation of technology to support them.

**Courses:** IF52, IS43, IT20 **Prerequisite:** ITB331

**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ ITB342 SPECIAL TOPIC (INFORMATION MANAGEMENT)

This unit covers aspects of information management of specific interest at that time. This unit makes allowances for significant developments or emphasis in information management not included in the remainder of the course program.

**Course:** IT20

**Prerequisite:** Topic dependant

**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ ITB350 PROJECT-H

The ability to apply knowledge and skills to real-life situations is essential for people planning to work as information management professionals. A one semester project, under academic supervision, is considered useful in developing students' ability to apply their knowledge and skills. As this unit is for students intending to proceed to the Honours course, this project must include an evaluative component.

**Courses:** IS28, IT20

**Prerequisite:** Successful completion of at least 72 credit points from the Information Management major and 2 Pre-Honours units.

**Credit Points:** 12

### ■ ITB351 INFORMATION MANAGEMENT 3H (STRATEGY & PLANNING)

This unit pulls together many of the themes previously identified in the course of the information management major, with particular reference to information as a commodity and its use in strategic planning. It also deals with functions and practices of management that relate to provision of information services, and utilisation of technology to support them. In order to prepare students who are intending to proceed to an Honours program, this unit addresses performance analysis and evaluation work in more depth than the standard version of the course.

**Course:** IT20

**Prerequisite:** ITB331

**Credit Points:** 12 **Contact Hours:** 3 per week

**■ ITB352 LABORATORY 4H  
(INFORMATION SUPPORT METHODS &  
EVALUATION)**

Practical exposure to a range of techniques that are used to support information management implementations. In order to prepare students who are intending to proceed to an Honours program, a greater amount of evaluative work is introduced in the exercises and assessment undertaken.

**Courses:** IF23, IF33, IF52, IT20

**Prerequisite:** ITB320 and ITB520

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ ITB410 SOFTWARE DEVELOPMENT 1**

This unit forms the basis of the major computing topics to be covered in later units. All students in the area of Information Technology need to be aware of a range of problem solving techniques and how these can be used to solve various problems using a procedural programming language. This unit introduces the student to the need for software quality management and control during software development.

**Courses:** IF23, IF33, IF52, IS28, IT20

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ ITB411 SOFTWARE DEVELOPMENT 2**

Quality software development increasingly requires design of algorithms using modules, and algorithms and data-structures for building modules. This unit provides the foundation knowledge for the external and internal perspective of software modules in a system context. This unit provides students with an understanding of modules in the context of programmable systems. The external view and internal view of modules and their realisation in a modular programming language are covered. Abstract data-types, specification of interfaces and methods for achieving program correctness provide the theoretical basis. Standard data structure modules.

**Courses:** IF23, IF33, IF52, IS28, IT20, IT32

**Prerequisite:** ITB410

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ ITB412 TECHNOLOGY OF  
INFORMATION SYSTEMS**

Computer hardware and system software which together provide the context within which computer applications operate. Topics include: the von Neuman model; instruction execution; registers and addressing modes; program and data representation; assembly language programming; i/o, interrupts and DMA; introduction to boolean algebra and computer hardware; FSMs; hardwired vs. microprogrammed control; i/o and secondary storage devices; advanced computer architectures; networking.

**Courses:** IF23, IF33, IF52, IS28, IT20, IT32

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ ITB420 COMPUTER ARCHITECTURE**

This unit extends the introductory treatment of computer hardware and system software given in the prerequisite unit. In addition, it includes a study of the following concepts: virtual machine architecture, device handling and memory management.

**Courses:** IF23, IT20

**Prerequisite:** ITB412

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ ITB421 DATA STRUCTURES &  
ALGORITHMS**

Quality software development requires the design and implementation of efficient data structures with their associated algorithms. This unit builds upon the concepts of encapsulation and abstraction which were introduced in Software Development 2 by examining

a number of implementations of the Table abstraction and evaluates the efficiency of each implementation.  
**Courses:** IF23, IS28, IT20      **Prerequisite:** ITB411  
**Credit Points:** 12      **Contact Hours:** 3 per week

**■ ITB422 LABORATORY 3 (ADTs IN AN  
UNIX ENVIRONMENT)**

This unit extends students knowledge of the Unix environment and introduces the language C, with an emphasis on the implementation of ADTs in that language. Students will obtain extensive experience with this important practical language, including documentation and report writing. Topics covered include The Unix environment, the shell and shell programming. The language C. Implementation of a variety of data structures in C. Generic ADTs. Programming styles, documentation and standards.

**Courses:** CS28, IF23, IT20

**Prerequisites:** ITB411 and ITB102

**Co-requisite:** ITB421 (IT20 students only)

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ ITB423 LABORATORY 4 (SOFTWARE  
DEVELOPMENT)**

This unit consolidates the software engineering principles studied in earlier units as well as augmenting the material in Software Engineering. It provides students an opportunity to work in small three person groups on a major project. This project shall require them to take a problem from statement to a well documented and researched solution. The project will be implemented using two alternative methodologies.

**Course:** CS28, IT20

**Prerequisite:** ITB210

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ ITB424 SOFTWARE ENGINEERING**

The problems of developing and maintaining reliable large scale software product and the techniques needed to overcome them. Students need to appreciate the seriousness of the problem, and the value of a disciplined approach to the solution; they should be aware of the variety of tools and methodologies to support software development.

**Courses:** CS10, CS28, IF23, IS28, IT20

**Prerequisite:** ITB421

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ ITB430 CONCURRENT SYSTEMS**

The process structure of concurrent systems and the symbiosis of hardware and system software required to support such systems. Topics include: concurrency, processes and process synchronisation; interrupt handling; resource management, deadlock. Realtime and concurrent programming in Modula-2 and process kernels. Specification of concurrent systems. Realisation of process and resource management principles in contemporary operating systems. Multiprocessor and distributed systems with special reference to multi-processor UNIX systems.

**Courses:** CS28, IF23, IT20      **Prerequisite:** ITB420

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ ITB431 PROGRAMMING LANGUAGE  
PARADIGMS**

This unit introduces students to non-procedural language paradigms; viz functional logical and object-oriented programming techniques. Each is studied in the context of a well-known computer language with its computational environment. A major component of this unit is laboratory based. For each paradigm substantial program development will be included.

**Courses:** CS19, CS28, IF23, IT20

**Prerequisite:** ITB411

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ ITB440 LANGUAGES & LANGUAGE PROCESSING**

Syntax-directed programs permeate computing – examples are editors, formatters, command interpreters and compilers. In order to rapidly and reliably create such tools, it is necessary to understand the underlying theory of language definition, recognising automata and grammar classifications, as well as the practical realisation of recognisers in stylised, reusable code.

**Courses:** CS19, CS28, IF23, IT20

**Prerequisite:** ITB421

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ ITB441 GRAPHICS**

The nature of computer graphics hardware and software. The design and implementation of computer graphics software so as to enable students to implement graphics systems in their application areas. Topics include: graphics hardware; graphics Kernel System and Phigs; fundamental algorithms for 2-D graphics; 3-D transformations; curve and surface modelling; colour models; hidden surface removal.

**Courses:** CS19, CS28, IF23, IF52, IS08, IS28, IT20

**Prerequisite:** ITB411

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ ITB442 ARTIFICIAL INTELLIGENCE**

Artificial intelligence is coming out of the laboratory into the marketplace, it is important that students are exposed to the major ideas of artificial intelligence and in particular to the role of knowledge engineering in the design of practical knowledge-based systems. This unit provides a broad and comprehensive introduction to the field of artificial intelligence.

**Courses:** CS19, CS28, IF23, IS08, IS28, IT20

**Prerequisite:** ITB431

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ ITB443 SYSTEMS PROGRAMMING**

Concurrent programming is the basis for operation system implementations, much systems programming and parallel application programming. It is a central idea in advanced computer science and an important concept in multiprocessor computers and parallel computer hardware. This unit builds upon previous introduction to concurrent systems. It introduces systems programming in an operating system that supports processes and inter-process communications. Topics covered include a review of UNIX operating system commands; Process and file management; UNIX administration, security; shell programming; the C/UNIX interface; remote procedure calls.

**Courses:** CS19, CS28, IF23, IS08, IS28, IT20

**Prerequisite:** ITB430

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ ITB444 SPECIAL STUDIES 1****■ ITB445 SPECIAL STUDIES 2**

These units cover aspects of current scientific interest; it makes allowances for significant developments in computing science not provided for in the remainder of the course program. Details of topics will be published before the start of each semester.

**Courses:** CS28, IF23, IS08, IS28, IT20

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ ITB446 PROJECT****■ ITB447 PROJECT**

Analysis, design and programming skills, and the underlying theory, are presented in various units; practice in those units naturally emphasises their particular specialisation. A project unit brings many of those skills together in a practical exercise of greater

size and complexity, emphasising their complementary nature and the need for careful management. Students, either individually or in small groups, undertake a significant project, relevant to the needs of industry, government or a research area, 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. The role of the supervisor is to provide broad guidance on the methods and techniques to be used but progress depends largely on student initiative and problem-solving ability.

**Courses:** CS28, IS08, IT20

**Prerequisite:** Completion of at least 72 credit points from the Computing Science major

**Credit Points:** 12

**■ ITB448 OBJECT-ORIENTED PROGRAMMING**

Methods and techniques of object-oriented design and implementation based on careful assessment of the underlying software engineering issues. The design of effective module interfaces is emphasised to achieve the full benefit of the object-oriented approach. Practical work focuses on building re-usable components and constructing object-oriented systems by combining existing and custom made components.

**Courses:** CS19, CS28, IS08, IT20

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ ITB449 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.

**Courses:** CS28, IF23, IS08, IS28, IT20

**Prerequisite/Co-requisite:** CSB210 or CSP214 or CSB292 or equivalent.

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ ITB450 ADVANCED COMPUTER ARCHITECTURE**

This unit forms a continuation of the material introduced in the units Technology of Information Systems and Computer Architecture. It is intended to provide students with an understanding of the organisation of contemporary computer systems and the variety of different structures which may be used for specific tasks. The style of presentation is based on a mixture of theory and case studies based on existing machines of practical or theoretical importance. Topics covered include the physical basis of the constraints of processor speed; High performance 'von Neumann' architectures; Pipelined processors, vector processors and supercomputers; Machines for protected multi-tasking; Conceptual models for parallel computation.

**Courses:** CS28, IT20

**Prerequisite:** ITB420

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ ITB451 PROJECT**

This provides for students to undertake a two-semester project. The work in one semester can be followed up in the second, or students can extend their practical skills through the second semester project.

**Courses:** CS28, IS08, IT20

**Prerequisite:** Completion of at least 60 credit points from the Computing Science major.

**Credit Points:** 24

### ■ ITB452 PROJECT WORK

This unit is for students intending to proceed to the Honours course following the Bachelor of Information Technology, the project will have a significant research component in addition to the practical development of a system of greater size and complexity than previously undertaken by a student.

Course: IT20

Credit Points: 24

Prerequisite: Completion of at least 72 credit points from the Computing Science major and ITB440 Languages and Language Processing.

### ■ ITB453 PROJECT

This unit allows students to undertake a large project in one semester.

Courses: CS28, IS08, IT20

Credit Points: 24

Prerequisite: Completion of at least 60 credit points from the Computing Science major

### ■ ITB520 DATA COMMUNICATIONS

This unit provides an introductory treatment of the major topics and issues in data communications. It is the foundation unit for the minor/major course programme in this area. Topics include: overview of data- and telecommunications networks and services; voice communication network design; digital/analog data representation; digital/analog signals; digital transmission; transmission media/impairments; link layer communications protocols; vendor implementations (HDLC, SDLC); data communications network design; communications architectures; reference model for open systems interconnection (OSI); network access protocols; public switched telephone network (PSTN); packet switched data networks (PSDN); ISDN and B-ISDN; local area networks; telecommunications products and services; network control, management, and security; future trends.

Courses: BS50, CS10, CS28, IF52, IS28, IS43, IT20

Prerequisite: ITB401

Credit Points: 12

Contact Hours: 3 per week

### ■ ITB521 COMPUTER NETWORKS 1

Students entering the field of data and telecommunications will be expected to have practical skills in various facets of the installation and management of communications systems. Topics include: physical level interfaces; communications hardware; communications network software; communications cabling; local area network configuration, installation, and operation; unix networking; network troubleshooting and re-configuration.

Course: IT20

Prerequisite: ITB511

Credit Points: 12

Contact Hours: 3 per week

### ■ ITB523 DATA SECURITY

Data is an asset of high value to an organisation. Its security from accidental or malicious corruption or theft is essential. Computing practitioners should be aware of the security implications of their own designs and implementations, and of the strengths and limitations of the security in their computing environment covered include management of data security, cryptography, communication security, access control, viruses and legislation.

Courses: CS19, CS28, IS08, IT20

Prerequisite: ITB511

Credit Points: 12

Contact Hours: 3 per week

### ■ ITB524 CORPORATE COMMUNICATIONS NETWORK PLANNING & MANAGEMENT

Most modern organisations have become almost totally dependent on the continuous availability and

guaranteed integrity of their communications networks. This unit examines in detail the issues of design, control and management (including security management) of communications networks.

Course: IT20

Prerequisite: ITB514 and ITB512

Credit Points: 12

Contact Hours: 3 per week

### ■ ITB525 MODELLING & SIMULATION OF COMMUNICATION NETWORKS

This unit sets the basic foundations for applying teletraffic science methods to the solution of practical problems in communication network design and analysis. Mathematical modelling and simulation of communications systems and networks.

Course: IT20

Credit Points: 12

Contact Hours: 3 per week

### ■ ITB526 DATA COMMUNICATIONS SYSTEMS & ARCHITECTURES

Students majoring in data communications will be expected to have a detailed knowledge of communications architectures beyond that covered in the introductory unit. Topics include: communications network architectures; reference model for open system interconnection (Layers 1 to 7); TCP/IP; proprietary network architectures (eg SNA, DECnet); internetworking; ISDN; radio and satellite services; open distributed processing; client-server architectures; intelligent networks.

Course: IT20

Prerequisite: ITB511

Co-requisite: ITB514

Credit Points: 12

Contact Hours: 3 per week

### ■ ITB527 DESIGN & ANALYSIS OF COMMUNICATION NETWORKS

Rapid advances in communications network technology have resulted in a large number of options for network designers. This unit aims to reveal the issues involved in designing cost effective and traffic efficient communication networks.

Course: IT20

Prerequisites: ITB517 and ITB515

Credit Points: 12

Contact Hours: 3 per week

### ■ ITB528 FUNDAMENTALS OF TELETRAFFIC SCIENCE

The growing complexity of communications networks and services in the world today requires detailed knowledge of how they perform and how they should be designed and managed. This unit aims to lay down the foundations for a proper understanding of the factors involved. Topics include: the scope of teletraffic science; current trends and problems; concepts of offered, carried and lost traffic and their inter-relationships; congestion and performance measures in delay systems. Approaches for integrated services digital networks. Forecasting: trend extrapolation, introduction to circuit switching. Network description, modelling overflow traffic; performance evaluation, chain flow model. Circuit reservation. Network dimensioning and optimisation; packet switching; future networks.

Course: IT20

Prerequisite: ITB511

Credit Points: 12

Contact Hours: 3 per week

### ■ ITB529 ADVANCED DATA COMMUNICATIONS

Advanced 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).

Course: IT20

Prerequisite: ITB501

Credit Points: 12

Contact Hours: 3 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.

Courses: CS28, IS10, IS43

Credit Points: 18

### ■ ITB904 INDUSTRIAL TRAINING EXPERIENCE

See ITB900.

Course: IT20

Credit Points: 24

### ■ ITN296 MAJOR PROJECT

See ISN401.

Course: IS50

Credit Points: 48

### ■ ITN298 DISSERTATION

See ISN500.

Course: IS50

Credit Points: 96

### ■ 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, 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.

Courses: CS36, CS55, IS61

Credit Points: 12

Contact Hours: 3 per week

### ■ ITN519 ADVANCED DATA COMMUNICATIONS

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).

Courses: CS36, CS55, IS50

Prerequisite: ITB501 (or equivalent)

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.

Courses: IS50, IS61

Prerequisite: ITN502

Credit Points: 12

Contact Hours: 3 per week

### ■ ITP200 APPLICATIONS PROGRAMMING

Application programming is the process of developing a set of programs from a given specification. It involves the creation of an executable version of that specification and, as such, provides the crucial step into automation. The unit provides an introduction to the development of information systems using application generators and 4GL technology.

Courses: CS19, IS24

Credit Points: 12

Contact Hours: 3 per week

### ■ ITP201 FOUNDATIONS OF INFORMATION MODELLING

It is common to sharply distinguish between the specification and the implementation of organisational information systems. There are, however, many important ideas that are shared. This unit introduces notation from mathematics and logic that may be used to describe these ideas. An information system models some aspect of an organisation and contains both specific and general statements about it. The specific statements are stored in the database and the more general ones end up as programs. This unit describes how such statements may be specified in the Z notation and implemented in SQL.

Courses: IS24, IS25, CS19

Credit Points: 12

Contact Hours: 3 per week

### ■ ITP202 SYSTEMS ANALYSIS & DESIGN

For the creation of a useful and usable information system, it is essential that the feasibility of the system has been established, that the user's requirements are known, and that a suitable user interface is specified. This unit develops basic systems development skills by teaching the methodology and techniques.

Course: IS24

Credit Points: 12

Contact Hours: 3 per week

### ■ ITP203 APPLICATIONS DEVELOPMENT

This unit reexamines the major systems analysis, design and programming issues within the context of a particular 4GL environment. It integrates the skills acquired in other core units by involving students in the development of a non-trivial information system. Issues of teamwork, standards and project control.

Course: IS24

Credit Points: 12

Contact Hours: 3 per week

### ■ ITP311 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.

Courses: IS25, IT20

Credit Points: 12

Contact Hours: 3 per week

### ■ ITP312 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 efforts.

Courses: IS25, IS65

Credit Points: 12

Contact Hours: 3 per week

### ■ ITP313 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.

**Courses:** IS25, IS65

**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ ITP314 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; development of on-line information services, database producers, search strategies, services offered by major vendors, in-house systems (including CD-ROM) and computer assisted retrieval of information.

**Courses:** IS25

**Prerequisite:** ISP101 or ITP201

**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ ITP315 LIBRARY PROGRAMS MANAGEMENT

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; planning, organising, staffing, directing, and controlling; the concepts of leadership and professionalism.

**Courses:** IS25, IT20

**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ ITP316 FIELD EXPERIENCE

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 gaining substantial experience in at least two different areas of library work under the supervision of qualified librarians.

**Courses:** IS25, IS65, IT20

**Prerequisite:** Completion of 50% of other units.

**Credit Points:** 4

### ■ ITP317 LIBRARY SERVICES TO YOUNG PEOPLE

The most important aspects of library services to children and young adults; 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.

**Courses:** IS25, IS65

**Prerequisites:** ISP431, ISP433 or ITP311, ITP313

**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ ITP318 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 unit indexes and automated indexing.

**Courses:** IS25, IS65

**Prerequisite:** ISP432

**Credit Points:** 12

**Contact Hours:** 3 per week

### ■ ITP319 GOVERNMENT DOCUMENTS

The production, acquisition and organisation of government documents and issues related to their use. Topics include why governments publish, the range of units, 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.

**Courses:** IS25, IS65

**Prerequisite:** ISP433 or ITP313

**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ ITP320 SPECIAL TOPIC – LIBRARY SCIENCE

Designed to allow for significant development of, or emphasis in, library science not dealt with in other units. Topics and study areas will be offered as required and when the necessary expertise is available.

**Courses:** IS25, IS65

**Prerequisite:** See School announcements.

**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ ITP321 SPECIAL TOPIC – LIBRARY SCIENCE

Allows for the significant development of or emphasis in library science not already dealt with. Selected topics and study areas will be offered as required and when the necessary expertise is available.

**Courses:** IS25, IS65

**Prerequisite:** See School announcements

**Credit Points:** 8 **Contact Hours:** 2 per week

### ■ ITP322 INDIVIDUAL STUDY

Students can pursue in depth a personal interest in library science not covered by the Graduate Diploma course core or other elective units. On completion of this unit, students should be able to demonstrate a detailed knowledge of the area chosen.

**Courses:** IS25, IS65

**Prerequisite:** To be determined by the nature of the study.

**Credit Points:** 8 **Contact Hours:** 2 per week

### ■ ITP323 INTRODUCTION TO RECORDS MANAGEMENT

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.

**Courses:** IS25, IS65

**Credit Points:** 8 **Contact Hours:** 2 per week

### ■ ITP324 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.

**Courses:** IS25, IS65

**Credit Points:** 8 **Contact Hours:** 2 per week

### ■ ITP411 SYSTEMS ARCHITECTURE & OPERATING SYSTEMS

See CSP211.

**Courses:** CS19

**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ ITP412 SOFTWARE PRINCIPLES

See CSP112.

**Courses:** CS19

**Credit Points:** 12 **Contact Hours:** 3 per week



# ■ ITP413 ADTS IN A C/UNIX ENVIRONMENT

This unit extends students' knowledge of the Unix environment and introduces the language C, with an emphasis on the implementation of ADTs in that language. Students will obtain extensive experience with this important practical language, including documentation and report writing. Topics covered include the Unix Environment, the shell and shell programming, the language C, implementation of a variety of data structures in C, generic ADTs, programming styles, documentation and standards.

Course: CS19  
Credit Points: 12      Contact Hours: 3 per week

# ■ ITP460 PROJECT

See CSP960 in 1992 Handbook.  
Course: CS19      Credit Points: 12

# ■ ITP470 PROJECT

See CSP970 in 1992 Handbook.  
Course: CS19      Credit Points: 12

# ■ ITP480 PROJECT

See ITP460, ITP470. The project expands across two semesters.

Course: CS19      Credit Points: 12

# ■ ITP481 PROJECT

See ITP460, ITP470.  
Course: CS19      Credit Points: 12

# ■ JSB101 CONTEMPORARY ISSUES IN AUSTRALIAN SOCIETY 1

Perspectives in sociology; major approaches; social structures: ethnicity, racism, aboriginality, patriarchy, feminism, the family, family violence; economic organisation: international economic order, class, wealth, poverty, work; the environment; the future.

Courses: JS21, JS31  
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.

Courses: JS21, JS31  
Credit Points: 12      Contact Hours: 3 per week

# ■ JSB103 INTRODUCTION TO THE LEGAL SYSTEM

Law and society; 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.

Courses: JS21, JS31  
Credit Points: 12      Contact Hours: 3 per week

# ■ JSB104 COMMUNICATION FOR JUSTICE PROFESSIONALS

Techniques in communication: 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.

Courses: JS21, JS31  
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.

Course: JS31      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 criminal justice institutions.

Course: JS31  
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.

Course: JS31  
Credit Points: 12      Contact Hours: 3 per week

# ■ JSB108 INTRODUCTION TO PROFESSIONAL STUDIES

The concepts of professionalism and professional knowledge and its application for a range of professional areas in law enforcement, justice administration and intelligence and protective security. Students study: creative problem solving and goal attainment; inter-professional cooperation in problem situations; basic social science research methodology; and the use of computers in research.

Course: JS31  
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; comparative criminal law; development and administration of criminal law in Queensland; legal research.

Course: JS31      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.

Course: JS31      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; offender rehabilitation and individual and societal reactions to them, changing the environment by reducing opportunities for crime, increasing risks of detection; community education.

Course: JS31 Prerequisite: JSB105  
Credit Points: 12 Contact Hours: 3 per week

#### ■ JSB204 PRINCIPLES OF CRIMINAL LAW 2

Issues and problems of justice in criminal law: parties, proof, intent, responsibility, defences; the Queensland Criminal Code; legal research.

Course: JS31 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.

Course: JS31 Prerequisite: JSB107  
Credit Points: 12 Contact Hours: 3 per week

#### ■ JSB210 PROCEDURE & PRACTICE

The role and function of policing; enforcement practices: non-arrest, arrest situations; supporting documentation; evidentiary sources and gathering methodology; crime trends and their impact on policing practices.

Course: JS31 Prerequisite: JSB108  
Credit Points: 12 Contact Hours: 3 per week

#### ■ JSB211 PROCESS THEORY & APPLICATION

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.

Course: JS31 Prerequisite: JSB108  
Credit Points: 12 Contact Hours: 3 per week

#### ■ JSB212 INTER-PROFESSIONAL COOPERATION

The role and function of policing in conjunction with other agencies, particularly emergency service agencies; the cooperation necessary and the awareness of reciprocal roles and functions in given situations.

Course: JS31 Prerequisite: JSB108  
Credit Points: 12 Contact Hours: 3 per week

#### ■ JSB213 PROTECTIVE SECURITY THEORY & APPLICATION

This unit deals with protective security in its broadest sense; it examines the threat to security in the public, private and national arenas. The nature of espionage, subversion, sabotage, theft and hostage situations are also examined. The basic areas of protective security are personnel, material, physical and information security. Students will also conduct risk/threat assessments and cover other areas such as inspections, audits, surveys and reviews; policy, procedures and controls; management aspects; legislation; case studies and models of security.

Course: JS31 Prerequisites: JSB108, JSB211  
Credit Points: 12 Contact Hours: 3 per week

#### ■ JSB214 CONFLICT MANAGEMENT: ALTERNATIVE DISPUTE RESOLUTION

The ways in which individuals, communities, and whole societies respond to conflict has been and continues to be a rich source of study. Jerold Auerbach in his book *Justice Without Law* states that the way societies settle disputes and their choice of socially acceptable responses to conflict ultimately reveal our most basic values and indicate whether people want to avoid, encourage, suppress or resolve conflict.

Course: JS31 Prerequisite: JSB108  
Credit Points: 12 Contact Hours: 3 per week

#### ■ JSB215 PUBLIC LAW 1: ADMINISTRATIVE LAW

Administrative Law comes within the law commonly referred to as Public Law. It is primarily concerned with the legal restraints on the way in which person entrusted with power can and do make decisions which may affect other people's rights or interests.

Course: JS31 Prerequisite: JSB108  
Credit Points: 12 Contact Hours: 3 per week

#### ■ JSB217 CRIMINAL JUSTICE SYSTEMS – PERSPECTIVES OF PUNISHMENT

Introduction: scientific method; crime and society; four stages of reactions to crime; the shift in penal philosophy. Overview to the Correctional System: sociological and cultural implications; the correctional apparatus. Punishment: historical perspectives; classical/positivist dilemma; changing philosophies of punishment. The Prison: historical origins; antecedents of the penitentiary; historical perspectives – architecture, organisations, rules and regulations; philosophies. Contemporary Thinking in Corrections: conflicting models and their implications. Human Rights Perspectives and Minimum Standards: Human Rights conventions; Australian minimum standards. Probation and Parole: historical development.

Course: JS31 Prerequisite: JSB108  
Credit Points: 12 Contact Hours: 3 per week

#### ■ JSB218 TRADITIONAL PUNISHMENT PROCESSES & ISSUES

Contemporary Penal Processes: the concept of Remand; security issues; prisoner placement in relation to placement; entering prison; assessment procedures; discipline and legal procedures inside; discharge mechanisms and processes. Statutory Decision Makers: boards, ombudsman, official visitors. Detention of Children in Jails: confinement and the inmate social system. Community Corrections Processes: community corrections centres; home detention; probation; parole; legal obligations and mechanisms. Interaction with general community programs.

Course: JS31 Prerequisite: JSB108  
Credit Points: 12 Contact Hours: 3 per week

#### ■ JSB220 INTELLIGENCE ACTIVITY: LAW, MORALITY & THE MEDIA

Examines the relationships and responsibilities of the intelligence professional in society through analysis of intelligence and security practices and conventions from the perspectives of the law, morality and the media. Students examine: the nature of intelligence and protective security and their place in contemporary Australian society; laws and other instruments which protect individuals and their activities against unlawful intelligence and security actions and operations; human rights issues (Freedom of Information, Geneva Conventions and Protocols, etc.); the concepts of the right to know and need to know; perspectives on morality relative to personnel vetting processes.

ses, intelligence collection activities, research practices, current and archival intelligence records, investigations, interviewing and interrogation, private security industry, restricted access, and counterintelligence; the impact of investigative and public affairs reporting on security; the media's right to communicate intelligence to the public.

Course: JS31

Credit Points: 12 Contact Hours: 3 per week

### ■ JSB221 INTELLIGENCE & NATIONAL SECURITY

Students examine the concept of national security and develop a basic understanding of the control, functions, roles and responsibilities at the national level in the Australian context. Comparative studies of overseas intelligence and security systems ensure students develop a broader understanding of national security through appreciation of different concepts and context. Case studies illustrate: abuses of intelligence and security (eg. political and ideological); intelligence failures; intelligence successes and changes in concepts of national security over the past fifty years. Issues which constitute actual and potential threats to national security in Australia.

Course: JS31

Credit Points: 12 Contact Hours: 3 per week

### ■ JSB222 MANAGEMENT OF PROTECTIVE SECURITY

The security function and its performance are considered under a series of topics: formulating a security policy and monitoring its performance; responsibility for security; employment of security staff; training security staff; security of records and reports; conducting surveys and report writing; security of building and sites; conference security; security and control of road transport; fire and accident prevention; aids to security; professional bodies; and law and practice.

Course: JS31

Credit Points: 12 Contact Hours: 3 per week

### ■ JSB223 INTELLIGENCE, ORGANISATIONS, PERSONNEL & OPERATIONS

Students examine the various types of intelligence and protective security organisations from the perspective of the 'essentials of an intelligence system'. Using defined characteristics of the intelligence professional and the principles of intelligence and security, students evaluate the selection procedures, selection criteria and management for research analysts, administrative staff, counterintelligence and protective security personnel, technical specialists and generalists for a range of organisational types. Students: design systems, establish and resource them, and identify direction required to achieve defined organisational goals; and establish and critically examine assessment criteria for efficiency and effectiveness of the various systems. The concept of an intelligence (and security) operation is examined together with all factors which influence decision-making relative to targets and resources. Ethics, the law and political considerations feature in operational studies.

Course: JS31

Credit Points: 12 Contact Hours: 3 per week

### ■ JSB230 PROTECTIVE SECURITY IN AUTOMATED SYSTEMS

Principles of protective security are applied to automated systems. Intelligence production is examined through existing data collection, collation and analysis programs (including computerised investigation aids). The unit addresses: the threat to automated

systems (eg. espionage, sabotage, coercion, fraud); available security products; studies of hardware and software security, access controls, networks, data transmission security, and maintenance controls; planning of secure sites; case histories and methods by which security can be breached; and future directions in law enforcement technology and computers.

Course: JS31

Credit Points: 12 Contact Hours: 3 per week

### ■ JSB301 LAW OF EVIDENCE & INVESTIGATION

Professionals involved in the fields of law enforcement and justice administration are frequently required to exercise investigative skills. This unit will provide students with a clear understanding of the law relating to the gathering of evidence, interrogation and admissibility of evidence in court. Study will include an examination of the general principles of judicial evidence, witnesses, rules of evidence, admissions and confessions. Issues of evidence of current importance eg issues arising out of enquiries such as 'Operation Trident' enquiry will also be explored.

Course: JS31

Prerequisites: JSB201, JSB204

Credit Points: 12 Contact Hours: 3 per week

### ■ JSB302 IDEOLOGY, ETHICS & JUSTICE

A critical examination of the notions and related concepts of ideology, ethics and justice with regard to their heuristic value and utility in providing a basis for social transformation. The nature of the various ideologies at both political and institutional levels in western society will be explored with specific emphasis on ideology within the legal and police cultures and how such considerations shape and constrain the notion of justice. Generally, the focus will be on integrating ethical reflection with application to various spheres of society in relation to law, policing, health, welfare and the environment.

Course: JS31

Prerequisite: JSB102

Credit Points: 12 Contact Hours: 3 per week

### ■ JSB303 HUMAN DYNAMICS: THE JUSTICE PROFESSIONS

This unit is designed to acquaint student with the nature of the unique stresses within the justice professions and law enforcement agencies and to equip students with coping skills. Consideration will be given to examination of the phenomenon of stress and its effects on individuals, the nature of conflict and its resolution, personal assertiveness and to negotiation skills. Theories and practical aspects of counselling will also be examined. Student will be required to undertake independent research study.

Course: JS31

Prerequisite: JSB203

Credit Points: 12 Contact Hours: 3 per week

### ■ JSB310 ORGANISED CRIME

The apparent growth of organised crime, both nationally and internationally, in recent years has resulted in a deepening commitment on the part of the law enforcement agencies to its suppression. Although not confined to the association with illicit drugs, the so-called drug trade is a major enterprise behind the proliferation of organised crime. Another consequence of organised crime is the development of corruption through the diverse levels of society. Students therefore will gain an understanding of the historical development, social perceptions and consequences and the perceived extent of organised crime. Students will also consider the strategies employed to combat

organised crime including the extent of investigations and/or Commissions of Inquiry documented to date.

**Course:** JS31

**Prerequisites:** JSB108

**Credit Points:** 12

**Contact Hours:** 3 per week

### ■ JSB311 PROTECTIVE SECURITY ISSUES & PRACTICE

Personnel, material, physical and information security are the main areas with protective security. This unit covers the methods and techniques for the collection of information and its management and analysis. Students conduct formal audits and complete written reports on their findings. Planning and controlling the flow of information; anacapa, scan and other analysis tools will be studied.

**Course:** JS31

**Prerequisites:** JSB108, JSB211, JSB213

**Credit Points:** 12

**Contact Hours:** 3 per week

### ■ JSB312 APPLIED POLICING RESEARCH PROJECT

This Project Study unit allows students undertaking the Law Enforcement Professional Minor to study a topic of personal academic interest which is not otherwise available as a formal subject in the area of policing. This unit differs from other units within the professional minor in that there will be a minimum of scheduled lectures and the initiative to choose the topic and to organise the project must come from the student. Students choose a research topic related to contemporary law enforcement issues or activities.

**Course:** JS31

**Prerequisite:** JSB100

**Credit Points:** 12

**Contact Hours:** 3 per week

### ■ JSB313 INTELLIGENCE RESEARCH – ISSUES, PROCEDURES & PRACTICE

Addresses major intelligence issues, intelligence and related security procedures and professional practices. The concept of intelligence in this unit is 'that which confers an advantage' in any professional context. Drawing on knowledge and cognitive skills developed in JSB211, JSB213, and JSB311, students apply process methodology: in examining specific societal issues; in recognising different intelligence 'research' procedures for specific issues; and in practical analysis of selected issues. They examine issues from the strategic research perspective: terrorism, illegal drugs, fauna smuggling, organised crime (operating in, or having the potential to operate in Australia), corporate crime, community crime and areas of concern, environmental matters, illegal immigration, national defence and foreign intelligence activities. Students demonstrate knowledge of issues and procedures through selecting two areas for in-depth study and presentation as seminar papers.

**Course:** JS31

**Prerequisites:** JSB108, JS11, JS31

**Credit Points:** 12

**Contact Hours:** 3 per week

### ■ JSB314 PUBLIC LAW 2: HUMAN RIGHTS

This unit is of central importance in any course about law and the administration of justice. It will provide a basis for the examination of some of the main issues of human rights and how this will effect the operation of law. Its focus will be upon current issues in Australia but set in a wider international context. More particularly it relates these themes to certain disadvantaged groups, including aborigines, women, ethnic minorities and children. Content will include: the nature of human rights; existing Australian legislation on human rights; civil and political rights; economic, social and cultural rights.

**Course:** JS31

**Prerequisites:** JSB108, JSB214, JSB215

**Credit Points:** 12

**Contact Hours:** 3 per week

### ■ JSB315 CURRENT ISSUES IN ADMINISTRATIVE LAW & JUSTICE

This unit enables students to examine current law and justice issues in some depth by means of certain quantitative and qualitative research designs and proposals to be developed by the students themselves. In this way it will enable students to capitalise on the content areas they have covered in the Law and Justice minor. Content include: issues in the research and evaluation in the justice system; designing and implementing research programs; analysing statistical and survey data; current issues in law and justice.

**Course:** JS31

**Prerequisite:** JSB108

**Credit Points:** 12

**Contact Hours:** 3 per week

### ■ JSB317 PUNISHMENT SYSTEMS IN ACTION

The work setting: the impact of organisational factors on staff; managerial styles; inmate/staff relations; staff/staff relations; custodial work – conflicts and techniques. Special groups: persistently recalcitrant prisoners; mentally disturbed prisoners; the criminally insane; life sentenced prisoners; inadequate prisoners; dangerous prisoners; victims inside; young offenders; women, indigenous people; protection – self and others. 'Treatment' and the correctional institution: organisation of treatment strategies; sentence management; specialist personnel – medical, psychiatry, psychologist, social/welfare workers, educationist; the chaplaincy. Correctional officers: role as change agents.

**Course:** JS31

**Prerequisite:** JSB108

**Credit Points:** 12

**Contact Hours:** 3 per week

### ■ JSB318 CONTEMPORARY ISSUES & TRENDS IN MODERN PUNISHMENT ADMINISTRATIONS

Evaluations of the models of penology. Controversial issues in corrections: death penalty; conjugal rights; homosexuality; aides and prison life; therapeutic communities. Returning to the community: reintegration difficulties; furloughs. Recidivism. The victim's place in the penal system. Society's perception/influence on prison: retribution; punishment; rehabilitation; protection. Fiscal constraints and overcrowding. Hidden agenda of imposing criminal status. Measuring success. Evaluation of the overall effectiveness of the penal system – present and future. International trends. The future prison.

**Course:** JS31

**Prerequisite:** JSB108

**Credit Points:** 12

**Contact Hours:** 3 per week

### ■ JSS001 THE LAW & LEGAL INSTITUTIONS

This unit 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 unit 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.

**Courses:** ED50, JS31

**Credit Points:** 12

**Contact Hours:** 3 per week

### ■ JSS002 LAW OF CONTRACT

The development of the law of contract; law governing the formation of contracts; application of the principles of contract law; matters affecting the validity of contracts; remedies for breach of contract;

role of equity in modifying common law rules of contract; rational and objective methods in analysis sociolegal issues in contracts.

**Course:** ED50

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ JSS003 LAW OF TORTS

The theoretical bases of Law of Tort in Australia; different types of tort and remedies; application of Law of Tort to case studies; examination of principles through specific decisions in Tort; Tortion remedies available within the social context.

**Course:** ED50

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ JSS004 CRIMINAL LAW & PROCEDURE

The theoretical basis of Criminal Law in Queensland; application of the law to case studies; use of rational and objective methods when examining legal issues; how criminal law operates in practice within a legal and social context; analysis of the balance between the rights of citizens and police powers.

**Course:** ED50

**Prerequisite:** JSS001

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ JSS005 INDIVIDUAL LEGAL RESPONSIBILITIES

Society demands certain responsibilities from persons classed as adult. Rights and duties fall to the adult person in some of the most important aspects in the accepted lifestyle in our society in terms of housing, relationships and employment. These responsibilities will encompass the majority of adult life. A reasoned analysis of the legal responsibilities involved in housing, marriage and employment is essential.

**Courses:** ED50, JS31

**Pre/Co-requisite:** JSS001

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ JSS006 INTRODUCTION TO LAW & SOCIAL JUSTICE

The tradition of law as it has evolved in a variety of socio-historical settings as well as the evolution of the specific British/Australian tradition of law; how different concepts of law have evolved; the impact of different views of human nature, political values, and philosophical values on the role of justice and society.

**Course:** ED50

**Prerequisites:** JS001 and JS003

**Credit Points:** 12      **Contact Hours:** 3 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 unit 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.

**Course:** JS21

**Prerequisite:** JSX102

**Credit Points:** 36      **Contact Hours:** 16 per week

### ■ JSX202 REPORTING 4

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 unit, students must attain a machine shorthand writing speed of 200 wpm with 98% transcription accuracy.

**Course:** JS21

**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.

**Course:** JS21

**Prerequisite:** JSX201

**Co-requisite:** JSX202

**Credit Points:** 12      **Contact Hours:** 6 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.

**Course:** ED41

**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.

**Course:** ED41

**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 cultures reflects that culture. Students have the opportunity to concentrate on the study of literature or on the development of their own writing.

**Courses:** ED41, ED51

**Prerequisite:** LAB260

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ LAB262 LITERATURE & EDUCATION 3

This advanced unit requires students to use the work done in previous units in three ways: to engage in an area of specialised study not completely covered in earlier units; 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.

**Courses:** ED41, ED51

**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 units.

**Course:** ED41

**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.

**Course:** ED41

**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.

Course: ED50

Credit Points: 12      Contact Hours: 3 per week

**■ LAB321 WRITING WORKSHOP**

This unit 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) falling within the writing activity.

Course: ED50

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; 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.

Course: ED50

Credit Points: 12      Contact Hours: 3 per week

**■ LAB323 YOUNG ADULT LITERATURE**

The scope and nature of young adult literature; strategies for evaluation and selection; recent research into adolescents' reading needs, interests and responses; using young adult books in the curriculum.

Course: ED50

Prerequisite: HUB100

Credit Points: 12      Contact Hours: 3 per week

**■ LAB325 ENGLISH CURRICULUM STUDIES 1**

This unit assists students to develop those competencies needed for planning and teaching in selected curriculum areas. Content includes: the nature of the curriculum area/discipline and its role and contribution as a medium for education; introduction to relevant syllabuses and curriculum documents; lesson and curriculum unit planning activities; and teaching strategies designed to promote a range of learning experiences in selected curriculum areas.

Course: ED50

Prerequisite: Normally the completion of 48 credit points in each relevant discipline area.

Credit Points: 12      Contact Hours: 3 per week

**■ LAB326 ENGLISH CURRICULUM STUDIES 2**

This unit extends the principles of professional practice established in Curriculum Studies 1. Content includes: curriculum development within the context of contemporary policies, frameworks and agencies; general principles of measurement, assessment and evaluation; teaching and learning strategies; and issues and directions in curriculum development.

Course: ED50

Prerequisite: LAB325

Credit Points: 12      Contact Hours: 3 per week

**■ LAB327 FILM & MEDIA CURRICULUM STUDIES 1**

This unit assists students to develop those competencies needed for planning and teaching in selected curriculum areas. Content includes: the nature of the

curriculum area/discipline and its role and contribution as a medium for education; introduction to relevant syllabuses and curriculum documents; lesson and curriculum unit planning activities; and teaching strategies designed to promote a range of learning experiences in selected curriculum areas.

Course: ED50

Prerequisite: Normally the completion of 48 credit points in each relevant discipline area.

Credit Points: 12      Contact Hours: 3 per week

**■ LAB328 FILM & MEDIA CURRICULUM STUDIES 2**

This unit extends the principles of professional practice established in Curriculum Studies 1. Content includes: curriculum development within the context of contemporary policies, frameworks and agencies; general principles of measurement, assessment and evaluation; teaching and learning strategies; and issues and directions in curriculum development.

Course: ED50

Prerequisite: LAB327

Credit Points: 12      Contact Hours: 3 per week

**■ LAB329 LOTE CURRICULUM STUDIES 1**

This unit assists students to develop those competencies needed for planning and teaching in selected curriculum areas. Content includes: the nature of the curriculum area/discipline and its role and contribution as a medium for education; introduction to relevant syllabuses and curriculum documents; lesson and curriculum unit planning activities; and teaching strategies designed to promote a range of learning experiences in selected curriculum areas.

Course: ED50

Prerequisite: Normally the completion of 48 credit points in each relevant discipline area.

Credit Points: 12      Contact Hours: 3 per week

**■ LAB330 LOTE CURRICULUM STUDIES 2**

This unit extends the principles of professional practice established in Curriculum Studies 1. Content includes: curriculum development within the context of contemporary policies, frameworks and agencies; general principles of measurement, assessment and evaluation; teaching and learning strategies; and issues and directions in curriculum development.

Course: ED50

Prerequisite: LAB329

Credit Points: 12      Contact Hours: 3 per week

**■ LAB331 LANGUAGE PROGRAMMING & ASSESSMENT**

Develops an understanding and ability to design programs for promoting and monitoring individual language development through the study of: a structure and process for programming; objectives as a framework for programming and assessment; language resources for classroom use; classroom program development; and monitoring effectiveness.

Course: ED50, ED51

Prerequisite: LAB330

Credit Points: 12      Contact Hours: 3 per week

**■ LAB332 CHILDREN'S LITERATURE IN THE PRIMARY CURRICULUM**

Explorations of the role of children's literature in the primary school; criteria for selecting children's literature; exploration of the various literary genres; leading to the use of literature as an integrating device in the development of programs in the primary school.

Course: ED51

Credit Points: 12      Contact Hours: 3 per week

**■ LAB333 LANGUAGE IN KEY LEARNINGS**

This unit will extend students knowledge of the relationship between language and learning and ex-

plore further the role of language across the curriculum, language in critical literacy and assessment.  
**Course:** ED51

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ LAB334 PRIMARY LOTE CURRICULUM STUDIES

This unit introduces concepts and skills in LOTE curriculum and methodology and prepares appropriately qualified students to teach French, German, Indonesian or Japanese in the upper primary school.

**Course:** ED51

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ LAB335 LITERATURE IN TEACHING

Reading, literary response, and literature teaching in historical perspective; redefinitions of literature; reading practices and positions; contemporary approaches to integrating the teaching of reading and writing; issues in the literature classroom eg. criteria for text selection, censorship, and levels of response.

**Course:** ED51

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ LAB336 LINGUISTICS IN TEACHING

This unit complements Literature in Teaching by providing a systematic study of linguistics, and in particular Systemic Functional Linguistics, in a range of language learning settings at home and at school.

**Course:** ED51

**Prerequisite:** LAB335

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ LAB337 WORKSHOP FOR WRITERS

Develops an understanding an ability to compose a range of texts for presentation in spoken, written, dramatic or audio-visual presentation. Students are involved in: the exploration of relevant personal and social issues; the composition and critical analysis of a range of texts; and reflection upon the language features and processes appropriate for composing and presenting effective texts.

**Course:** ED51

**Prerequisite:** LAB336

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ LAB338 CLASSROOM LANGUAGE LEARNING

Promotes an understanding and ability to develop language learning activities, process and strategies through the study of: a functional view of language; the concept of genre, the child as a language learner; resources for language learning; strategies for promoting mastery of genre and associated language.

**Course:** ED51

**Prerequisite:** EDB324

**Credit Points:** 12      **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.

**Course:** ED50

**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 ad-

vanced planning and teaching strategies and provides opportunities for application of planning and teaching skills during practice teaching.

**Course:** ED50

**Prerequisites:** LAB350, LAB351, CUB302

**Credit Points:** 8      **Contact Hours:** 3 per week

### ■ LAB354 FILM & MEDIA CURRICULUM & TEACHING STUDIES 2

See LAB351.

**Course:** ED50

**Prerequisite:** LAB353

**Co-requisites:** CUB302, EDB302

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ LAB355 FILM & MEDIA CURRICULUM & TEACHING STUDIES 3

See LAB352.

**Course:** ED50

**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; links with teaching practice.

**Course:** ED50

**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

See LAB351.

**Course:** ED50

**Prerequisite:** LAB356

**Co-requisites:** CUB302, EDB302

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ LAB358 LOTE CURRICULUM & TEACHING STUDIES 3

See LAB352.

**Course:** ED50

**Prerequisites:** MDB362, MDB363, CUB302

**Credit Points:** 8      **Contact Hours:** 3 per week

### ■ LAB410 LANGUAGE CURRICULUM ISSUES

Designed for primary and secondary teachers; 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.

**Course:** ED26

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ LAB440 RECENT DEVELOPMENTS IN THE TEACHING OF WRITING

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.

**Course:** ED26

**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.

**Course:** ED26

**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 provides background knowledge and practice in the skills and knowledge required for successful tutoring of parents as literacy tutors of their children.

Course: ED26

Credit Points: 12      Contact Hours: 3 per week

#### ■ LAB443 TRENDS IN THE TEACHING OF READING

Provides students with the opportunity to extend their understanding of the reading process; examines current views about reading in order to identify key concepts of the theory; implications for classroom practice are drawn; identifies factors which influence readers and texts; the roles these play in the understanding of the meanings made; develops learning situations based on these understandings.

Course: ED26

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; recent research into the topic, a range of strategies for empowering children to use language to learn; the requirement to apply this knowledge in a classroom setting.

Course: ED26

Credit Points: 12      Contact Hours: 3 per week

#### ■ LAB445 LANGUAGE LEARNING THROUGH FLIP

This unit 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.

Course: ED26

Credit Points: 12      Contact Hours: 3 per week

#### ■ LAB446 GRAMMAR FOR WRITERS

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.

Course: ED26

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.

Course: ED26

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; cur-

rent 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; continuity.

Courses: ED11, ED13

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; unit-specific literacies and whole-school literacy policies.

Courses: ED11, ED13

Credit Points: 12      Contact Hours: 3 per week

#### ■ LAN603 CHILDREN'S & YOUNG ADULT'S LITERATURE

Contemporary literary theory; children's book organisations and awards; children's book publishing; significant authors of children's books; trends and issues in children's literature as they apply to an area of specialisation within an educational context.

Course: ED13

Credit Points: 12      Contact Hours: 3 per week

#### ■ LAN604 FAMILY LITERACY

Although an old practice, family literacy is a relatively new research area for literacy. Recent findings emphasise the vital importance of family literacy for children's literacy development. This unit investigates family literacy and its implications for classroom practice and allows students to explore in depth an issue in the area of family literacy that is relevant to their own situation and interest.

Course: ED13

Credit Points: 12      Contact Hours: 3 per week

#### ■ LAN605 CONTEMPORARY APPROACHES IN WRITING

This explores the role of writing in achieving the goal of 'effective literacy' in schools and in post-compulsory education; examines the evolution of approaches to writing, writing development of individuals, and writing across the curriculum areas with a special focus on grammar, especially Systemic Functional grammar; appropriate classroom applications.

Course: ED13

Credit Points: 12      Contact Hours: 3 per week

#### ■ LAN606 READERS & TEXTS

The development of instruction of and research into reading from the beginning of this century, with particular emphasis on the last decade. The interrelatedness of reading and writing is explored along with the role of prior knowledge, the place of schema theory, and essential knowledge of text structure will be developed. Students will develop an understanding of the contexts in which reading/writing events take place and of the range of factors which affect the meanings readers make from text. Future directions in theory and practice in the teaching of reading.

Course: ED13

Credit Points: 12      Contact Hours: 3 per week

#### ■ LAN607 LITERACY & POPULAR CULTURES

The relationships between traditional school literacy, popular culture as communicated through mass media, and the development of a contemporary critical literacy in schools. Topics include defining popular culture; an historical view of popular culture and literacy; youth audiences for popular culture;



mass media and traditional school literacy; children's television and children's literacy; television, cultural representation and the construction of gender roles, myth and ideologies; uses of popular texts in communication curricula; communication theory, discourse analysis and critical literacy.

**Course:** ED13

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ LAP420 COMMUNICATION CURRICULUM & TEACHING STUDIES A

The principles and practices of the communication curriculum area units of English, film and media studies, journalism and applied communication studies in Queensland secondary schools. Students design and teach lessons appropriate to adolescents.

**Course:** ED32

**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

Theoretical context and practical applications in assessment, curriculum planning and teaching and learning strategies, and the roles of the teacher in the community and the profession.

**Course:** ED32

**Prerequisite:** LAP420      **Co-requisite:** EDP451

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ LAP422 FILM & TELEVISION CURRICULUM & TEACHING STUDIES B

This Curriculum B unit 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.

**Course:** ED32

**Prerequisite:** LAP420      **Co-requisite:** EDP451

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ LAP423 JUNIOR ENGLISH CURRICULUM & TEACHING STUDIES C

This Curriculum C unit offers studies which enable appropriately qualified students to teach junior English at lower levels of the secondary school. The application of principles, skills and understandings developed in the Curriculum A unit and expanded in the Curriculum B unit.

**Course:** ED32

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ LAP424 TEACHING ENGLISH AS A SECOND LANGUAGE CURRICULUM & TEACHING STUDIES C

This Curriculum C unit 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 principles of the Curriculum A and B groups of units.

**Course:** ED32

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ LAP430 LOTE CURRICULUM & TEACHING STUDIES A

A foundation unit for students wishing to teach foreign languages in the secondary and/or primary schools. Due emphasis is given to the learner-centred languages teaching; the principles of language learn-

ing; basic teaching skills focussing on lesson organisation and catering for learner differences; resourcing the interactive classroom for whole class, group and individual learning.

**Course:** ED32

**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

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.

**Course:** ED32

**Prerequisite:** LAP430      **Co-requisite:** EDP451

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ LAP432 FRENCH CURRICULUM & TEACHING STUDIES B

See LAP431.

**Course:** ED32

**Prerequisite:** LAP430      **Co-requisite:** EDP451

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ LAP433 GERMAN CURRICULUM & TEACHING STUDIES B

See LAP431.

**Course:** ED32

**Prerequisite:** LAP430      **Co-requisite:** EDP451

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ LAP434 INDONESIAN CURRICULUM & TEACHING STUDIES B

See LAP431.

**Course:** ED32

**Prerequisite:** LAP430      **Co-requisite:** EDP451

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ LAP435 ITALIAN CURRICULUM & TEACHING STUDIES B

See LAP431.

**Course:** ED32

**Prerequisite:** LAP430      **Co-requisite:** EDP451

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ LAP436 JAPANESE CURRICULUM & TEACHING STUDIES B

See LAP431.

**Course:** ED32

**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 unit 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 units.

**Course:** ED32

**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 develop-

ment of spoken and written language; language in use model and implications for teaching; other models on which the language education framework is based.

Course: ED31

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.

Course: ED31

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.

Course: ED25

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.

Course: ED25

Credit Points: 12 Contact Hours: 3 per week

#### ■ LAP503 LITERATURE & LITERACY: RESOURCES & STRATEGIES

Resources and strategies for teacher-librarians to enable them to work with teachers in language across the curriculum; developmental approach to reading and the selection of materials; genre studies; reader response theories; promotion strategies.

Course: ED25

Credit Points: 12 Contact Hours: 3 per week

#### ■ LAP504 SCHOOL LIBRARY RESOURCES: ORGANISATION & ACCESS

School library administration and organisation systems, including computer applications; bibliographic organisation and implications for self-directed learning; organisation and maintenance of, and access to, resources including equipment; field program, including school experience (3 weeks).

Course: ED25

Credit Points: 12 Contact Hours: 3 per week

Week and field programs: 2 hours

#### ■ LAP505 COMMUNICATION & MANAGEMENT IN SCHOOL LIBRARY RESOURCE CENTRES

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.

Course: ED25

Credit Points: 12 Contact Hours: 3 per week

#### ■ 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.

Course: ED25

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.

Course: ED25

Credit Points: 12

#### ■ LAP509 DIRECTED STUDY

An individually designed unit which allows students, under the staff supervision, to increase their knowledge relevant to teacher-librarianship.

Course: ED25

Credit Points: 12

#### ■ LAP510 INTERACTIVE TECHNOLOGIES IN INSTRUCTION

Interactive communications and resources; videodisk; teleconferencing; computer conferencing; electronic mail; planning an instructional program.

Course: ED25

Credit Points: 12

#### ■ LAP511 LITERACY EDUCATION & LIBRARIES

Educational role of libraries; literacy and basic education programs; literacy resource collections; multicultural library services; international developments.

Course: ED25

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 reader responses.

Course: ED25

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.

Course: ED25

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.

Course: ED25

Credit Points: 12

#### ■ LAP515 RESOURCE SERVICES FOR SPECIAL NEEDS

Resource services needs of gifted and talented, intellectually handicapped and physically handicapped students; mainstreaming; equity issues.

Course: ED25

Credit Points: 12 Contact Hours: 3 per week

#### ■ LAP516 SPECIAL SEMINAR

Study of a specific aspect of teacher-librarianship, the unit to be determined by the University according to need and/or the availability of special expertise.

Course: ED25

Credit Points: 12 Contact Hours: 3 per week

**■ LAP517 STORYTELLING**

Function of the story and storytelling in learning and teaching; preparing, developing and delivering stories; resources; storytelling across the curriculum.  
Course: ED25

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ LAP518 VISUAL LITERACY & RESOURCE DESIGN**

Visual literacy; learning styles; interpretation; design and evaluation of visually-based resources.

Course: ED25      **Credit Points:** 12

**■ LAP521 PROGRAM DEVELOPMENT, IMPLEMENTATION & EVALUATION IN ADULT LITERACY**

Existing adult literacy programs and resources; the language and communication principles underlying effective literacy programs and specific programs for defined adult literacy needs.

Courses: ED22, ED61

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ LAP522 SPECIFIC GROUPS OF ADULT LITERACY LEARNERS**

The characteristics of the literacy problems, needs and applications and the different learning styles of specific adult groups defined as having limited literacy: non-native English speakers; physically disabled; intellectually disabled; emotionally disabled.

Courses: ED22, ED61

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ LAP523 UNDERSTANDING LITERACY – UNDERSTANDING ADULT LITERACY**

The extent, manifestations, complex causes and personal and social effects of adult literacy problems in Australia: placing those problems within a framework of changing definitions of literacy and current policies and provisions for adult literacy.

Courses: ED22, ED61

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ LAP524 TEACHING & LEARNING IN ADULT LITERACY**

The diversity of adult learning styles, the relationships between oral language, reading, writing and visual literacy, the uses of literacies as social practices, the role of libraries in adult literacy, and methods of assessing both adult literacy development and resources for adult literacy teaching.

Courses: ED22, ED61

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ LAP525 ISSUES IN LANGUAGE TEACHING**

The teaching implications of a number of literacy issues, such as: intergenerational literacy; discourse structures; language and power; the political nature of literacy; critical literacy; plain English; workplace literacies; the needs of NESB students.

Course: ED22

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ LAP526 INDEPENDENT PROJECT IN ADULT LITERACY**

Students explore a particular perspective on adult literacy of interest and relevance to them and present their findings in a student symposium. Topics which may be chosen could include: adult literacy in correctional institutions; urban aboriginals and adult literacy; technical literacy/competency-based training; delivery of adult literacy to remote locations.

Course: ED22

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ LAP601 LANGUAGE IN USE**

Formal systems of language: the sentence, including phonology, morphology, syntax and semantics; formal systems of language beyond the sentence, including discourse, cohesive pragmatics and paralinguistic. Language in social-cultural contexts; standard and non-standard varieties of language, including dialects, sociolects and language in contact.

Course: ED60

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ LAP602 LANGUAGE TEACHING IN PRACTICE**

Strategies for observation of second language lessons; analysis of the linguistic content of a variety of lessons; application of these principles.

Course: ED60

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ LAP603 THE NATURE OF LANGUAGE LEARNING**

Behaviouristic, cognitive and psychosocial explanations of second language acquisition/learning; the effect of age; interlanguage and fossilisation; errors and error analysis; personality factors, cultural differences and environmental factors and language acquisition/learning; language proficiency: assessment.

Course: ED60

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ LAP604 ESL MATERIALS & CURRICULUM**

Implementation of a communicative syllabus response to the objective and subjective needs of particular learners; principles for the evaluation, selection and production of teaching materials.

Course: ED60

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ LAP901 RESOURCE SERVICE ADMINISTRATION**

The school as a social organisation, with the development of skills in the educational administration areas of organisational development; management of self, time things and other people, and interpersonal relationship, so that individual leadership styles may be developed. Exercises enable students to apply the theory and techniques in their own work place.

Course: ED27

**Credit Points:** 10

**■ LAP902 REFERENCE SERVICES & MATERIALS 2**

Provision of reference and information services to students, teachers and administrators; development of students and teachers as autonomous finders of information; current trends; development of students and teachers as autonomous finders of information; current trends in information storage and retrieval, such as online database searching; services beyond the school. Includes a compulsory study school.

Course: ED27

**Credit Points:** 10

**■ LAP903 COLLECTION DEVELOPMENT FOR LEARNING**

Collection development in schools; the relationship between current curricula, learning theory, educational resources and ways of using them; issues affecting collections; the goals of particular collections.

Course: ED27

**Credit Points:** 10

**■ 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: individual differences, concept of integration, problems of labelling, assessment, instructional techniques.

Course: ED41

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.

Course: ED41

Credit Points: 8

Contact Hours: 3 per week

### ■ LEB280 DEVELOPMENT & LEARNING ELECTIVE

Development and learning perspectives. A more in-depth understanding of specific psychological issues in education and their application to teaching.

Course: ED41

Prerequisites: LEB240, LEB241

Credit Points: 8

Contact Hours: 3 per week

### ■ LEB304 CHILDREN WITH SOCIAL & EMOTIONAL DIFFICULTIES

In this unit students will consider: the overview of social and emotional development, theories of social and emotional development, adult-child relationships and issues of authority and discipline; the socialisation of emotions, expression of emotions, emotional disturbances; self concept and self-esteem.

Course: ED51

Credit Points: 12

Contact Hours: 3 per week

### ■ LEB305 UNDERSTANDING CHILDREN WITH INTELLECTUAL DISABILITIES

Introduction to intellectual impairment, cognitive development delay, slow learners and the most prevalent conditions which include a degree of cognitive handicap; Theory and practice relating to classroom responses in regular settings; Assessment of functional attainments and planning learning in basic curriculum areas; Second of four subjects which offer enhanced background in the mainstream integration of children with disabilities.

Course: ED51

Credit Points: 12

Contact Hours: 3 per week

### ■ LEB330 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 for students from a variety of cultural backgrounds including aborigines and migrants; application of some counselling theories to the educational contexts; practical sessions using educationally based role plays to demonstrate effective use of the skills learned.

Courses: ED50, ED51, ED52

Credit Points: 12

Contact Hours: 3 per week

### ■ LEB331 MAINSTREAMING CHILDREN WITH LOW INCIDENCE DISABILITIES

Students will be introduced to a wide range of low incidence exceptionalities (eg. sensory impairments, developmental delay and health impairments such as

Epilepsy, Asthma and Hepatitis etc); methods of managing associated disabling conditions; implementation and evaluation of programming; support and referral services.

Courses: ED50, ED51, ED52

Credit Points: 12

Contact Hours: 3 per week

### ■ LEB332 TEACHING EXCEPTIONAL STUDENTS

Integrates a basic understanding and application of learning theory as it applies to exceptional populations. Focuses on specialised approaches to teaching particular exceptional groups. Provides an opportunity for development of specialist skills and resources in one of the following areas: (a) students with learning difficulties; (b) gifted students; (c) students with low incidence disabilities eg. hearing impaired, visually impaired or physically handicapped; (d) behaviourally or emotionally disturbed students.

Courses: ED50, ED51, ED52

Credit Points: 12

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.

Course: ED50

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. Advanced planning and teaching strategies and opportunities for application of planning and teaching skills during practice teaching.

Course: ED50

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.

Course: ED26

Credit Points: 12

Contact Hours: 3 per week

### ■ LEB421 APPLIED STRATEGIES IN CLASSROOM LEARNING

Contemporary theoretical approaches to human development and learning; dimensions and correlates of learning; developing teaching/learning strategies; gathering and interpreting information; consideration of a range of advanced teaching/learning strategies.

Course: ED26

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.

Course: ED26

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. This unit aims to familiarise students with the history of this concept's emergence, its definitional problems, current theories and models, and to ensure that their presentation promotes the concept as an aspect of problem solving in personal development and pedagogical applications.

Course: ED26

Credit Points: 12      Contact Hours: 3 per week

**■ LEB431 INNOVATIVE TEACHING METHODS**

Classroom strategies for to all grade levels (preschool through TAFE/university) and to all unit areas, based on the principles of cooperative learning and offered as alternatives to 'chalk and talk'. Access to classroom or other structured learning group essential.

Course: ED26

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.

Course: ED26

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.

Course: ED26

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.

Course: ED26

Credit Points: 12      Contact Hours: 3 per week

**■ LEB444 HUMAN SEXUALITY & DEVELOPMENT**

Examines social and legal issues of human sexual behaviour; their impact on adult development and identity. Behaviours investigated are pregnancy, abortion, infertility, child sexual abuse, rape, pornography, prostitution and transexuality.

Courses: ED26, ED61

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 unit, 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.

Course: ED26

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.

Course: ED26

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.

Course: ED26

Credit Points: 12      Contact Hours: 3 per week

**■ LEB448 WORKING IN TEAMS**

Teachers, administrators, students, parents and other professionals in education, health, welfare, and law often work together in different team situations. Individual and group processes that lead to effective team building and teamwork within schools or between agencies are studied, along with practical applications relevant to professionals taking this unit.

Course: ED26

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: their needs, special procedures, referral agencies.

Course: ED26

Credit Points: 12      Contact Hours: 3 per week

**■ LEN601 LEARNING & COGNITIVE DEVELOPMENT**

Theories of cognitive development; the human information processing system; knowledge of the learning process and individual needs; a critical analysis and synthesis of major recent theories of cognition and

learning as they apply to learning and teaching in an area of interest.

**Course:** ED13

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ LEN602 ADVANCED EDUCATIONAL COUNSELLING**

The major theoretical approaches to counselling will be applied to problems and concerns arising in the educational context. Theories outlined include Psychoanalytic, Adlerian, Existential, Person-Centred, Gestalt, Transactional Analysis, Behaviour, Rational-Emotive, and Reality. Skills and techniques associated with each major theory will be presented and related to educationally based problems and concerns. The effects and outcomes of counselling interventions are investigated; ethical issues.

**Course:** ED13

**Prerequisite:** LEB441

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ LEN603 EDUCATIONAL COUNSELLING PROFESSIONAL PRACTICE**

Explores the professional practices of educational counsellors working in the P-12 context; intervention, prevention, affective, and developmental programs; adolescent issues and career counselling; consultation: models, theories and practices; highlights self-management skills; discusses time management, program evaluation, accountability and decision-making.

**Course:** ED13

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ LEN604 PSYCHOEDUCATIONAL ASSESSMENT**

Assessment techniques and strategies; assessment of intelligence, academic skills, aptitude, personality; reliability, validity, test construction and standardisation procedures; the process of administering assessment instruments; interpretation of test results and assessment data; in programming and placement.

**Course:** ED13

**Credit Points:** 12      **Contact hours:** 3 per week

**■ LEN605 LEARNERS WITH SPECIAL NEEDS**

Special educational needs of school (P-12) and TAFE college learners arising from cognitive, behavioural and socio-cultural differences; diagnosing student functioning in cognitive, social-emotional, self-help and motor skill areas; developing teaching strategies suited to student learning styles; techniques of formative and summative assessment appropriate to student learning needs; mixed 'ability' teaching and learning.

**Course:** ED13

**Incompatible with:** LEP523

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ LEN606 REMEDIATING LEARNING DIFFICULTIES**

Review of the research pertaining to significant learning difficulties among learners in schools (Years 1-12) and post secondary education; studies in language and learning; assessment and monitoring of curriculum tasks; test interpretation and development; related approaches to teaching, informed by principles derived from research in psycholinguistics, metacognition and approaches to learning.

**Course:** ED13

**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 unit 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 complex process of teaching and learning.

**Course:** ED32

**Co-requisite:** CPP410

**Credit Points:** 9      **Contact Hours:** 3 per week

**■ LEP411 HUMAN DEVELOPMENT & LEARNING B**

Builds on LEP410 A, focuses on the students as emerging professional practitioners. Interpersonal relationships and group processes in relation to school students, school and community personnel.

**Course:** ED32

**Prerequisite:** LEP410

**Co-requisite:** CUP411

**Credit Points:** 9      **Contact Hours:** 3 per week

**■ LEP420 HUMAN RELATIONS EDUCATION CURRICULUM & TEACHING STUDIES C**

This Curriculum C unit provides opportunities for students with an appropriate background to prepare to teach human relations education; develops skills and understandings in planning, assessment and teaching and learning strategies; builds on the general principles taught in Curriculum A and B unit groups.

**Course:** ED32

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ LEP421 ADULT LEARNERS CURRICULUM & TEACHING STUDIES C**

This Curriculum C unit 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 units.

**Course:** ED32

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ LEP422 EXCEPTIONALITY CURRICULUM & TEACHING STUDIES C**

This Curriculum C unit 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 unit groups.

**Course:** ED32

**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 and teaching and learning; the historical antecedents of concepts and theories relating to child growth, development and learning.

**Course:** ED31

**Credit Points:** 8      **Contact Hours:** 3 per week

**■ 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; focuses on issues related to teaching human sexuality.

**Courses:** ED22, ED61

**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. Focuses on issues related to teaching.

Course: ED61

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.

Courses: ED22, ED61 Prerequisite: LEP515

Credit Points: 12 Contact Hours: 3 per week

### ■ LEP518 HUMAN RELATIONSHIPS ACROSS THE LIFESPAN

The developmental processes; human development across the lifespan; development theory and research; development of human relations; the sociocultural context of development and relationships.

Courses: ED22, ED61

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.

Courses: ED22, ED61

Credit Points: 12 Contact Hours: 3 per week

### ■ LEP522 INTERPERSONAL & SMALL GROUP TEACHING STRATEGIES

This unit 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.

Courses: ED22, ED61

Credit Points: 12 Contact Hours: 3 per week

### ■ LEP523 LEARNERS WITH SPECIAL NEEDS

Special educational needs of school (P-12) and TAFE college learners arising from cognitive, behavioural, sociocultural and physical disabilities and differences; learners with special educational needs; developing teaching/learning strategies suited to learners' needs. Participation in fieldwork experiences involves the investigation of the resource/support teacher's role in assisting students with special learning needs and collaborating with their teachers.

Course: ED24

Credit Points: 12 Contact Hours: 3 per week

### ■ LEP524 DEVELOPING RELATIONSHIPS & GROUPS

Overview of concepts relating to a model of interpersonal relationships; study of some human relationships concepts such as verbal and non-verbal interpersonal communication, power, influence, authority/control, trust and mistrust, confrontation and constructive resolution of conflict; interviewing and consulting skills; self concept studies; collabora-

tive teaching and team building; students and teacher stress; assertion-related theory and skills; resource teacher as change agents for inclusive education.

Course: ED24

Credit Points: 12 Contact Hours: 3 per week

### ■ LEP525 REMEDIATING LEARNING DIFFICULTIES

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; composing and comprehending tasks as they relate to curriculum demands; test-wisdom, note taking, organisation, examination stress; applications of the content is strongly based on an adjunct model of service delivery.

Course: ED24

Credit Points: 12 Contact Hours: 3 per week

### ■ LEP526 STUDY SKILLS, LITERACY & LEARNING

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.

Course: ED24

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 unit 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. Unit may be undertaken in various loads:

LPN300 = 24 credit points per semester

LPN301 = 48 credit points per semester

LPN302 = second 24 credit points per semester

LPN303 = 12 credit points per semester

LPN304 = second 12 credit points per semester

### ■ LSB001 INTRODUCTORY BIOLOGY

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.

Course: SC30

Credit Points: 6 Contact Hours: 3 per week

### ■ LSB100 MICROBIOLOGY 1

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. Detailed study of the morphology of eukaryotic cells, prokaryotic cells and viruses.

Course: LS36

Credit Points: 8 Contact Hours: 3 per week

### ■ LSB122 BIOLOGY 1

A core unit 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.

**Courses:** ED50, PU42, SC30

**Co-requisite:** LSB100 or Senior Biology

**Credit Points:** 12      **Contact Hours:** 5 per week

### ■ **LSB130 ANATOMY 1**

Lectures and practicals dealing with microscopic structure of the cell, epithelium, connective tissue, bone and cartilage, muscle tissue, nervous tissue, and cardiovascular system. Also deals with the gross anatomical study of the skeletal, articular, and cardiovascular systems.

**Course:** LS36

**Credit Points:** 8      **Contact Hours:** 3 per week

### ■ **LSB131 ANATOMY**

Introduces students to the basic concepts of anatomy. It will provide an overview of the structure of cells, body tissues, and body systems as well as aspects of surface anatomy which are relevant to human movement. Musculoskeletal and nervous systems.

**Course:** HM42

**Credit Points:** 12      **Contact Hours:** 6 per week

### ■ **LSB141 ANATOMY & PHYSIOLOGY 1**

A study of human anatomy of the body as a whole, including a detailed study of the skeletal system.

**Course:** PH38

**Credit Points:** 10      **Contact Hours:** 4 per week

### ■ **LSB151 HUMAN ANATOMY 1**

See LSB130.

**Courses:** OP42, PU45

**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.

**Course:** OP42

**Credit Points:** 8      **Contact Hours:** 3 per week

### ■ **LSB171 ANATOMY & PHYSIOLOGY 1**

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.

**Course:** PU48

**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 unit also focuses on the areas of anatomy relevant to nursing.

**Course:** NS40

**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.

**Courses:** NS40, NS48

**Prerequisite:** LSB281

**Incompatible with:** PNB116, or PNB758, or PNB340 + PNB540 + PNB640, or PNB350 + PNB450 + PNB650.)

**Credit Points:** 8      **Contact Hours:** 3 per week

### ■ **LSB210 QUANTITATIVE LABORATORY TECHNIQUES 2**

The theoretical and practical aspects of instrumental analysis in the clinical laboratory. Topics include: glassware, plastics, balances, spectrophotometers, flamephoto-meters, auto-titrators, pH meters, specific ion meters, calculators and computers. Emphasis is throughout on the effective use of the instruments. Mathematical topics relevant to data analysis.

**Course:** LS36      **Prerequisites:** CHB142, PHB150

**Credit Points:** 12      **Contact Hours:** 5 per week

### ■ **LSB221 INTRODUCTION TO PATHOLOGY**

Application of scientific methods to the study of disease processes. Correct understanding and use of pathological terms and concepts.

**Course:** PH38

**Prerequisite:** LSB141

**Credit Points:** 6      **Contact Hours:** 3 per week

### ■ **LSB222 BIOLOGY 2**

Macrobiology; populations of organisms, their interactions and 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.

**Courses:** ED50, SC30

**Credit Points:** 12      **Contact Hours:** 5 per week

### ■ **LSB230 ANATOMY 2**

An extension of LSB130. An integrated course of lecturer and practicals dealing with the microscopic and macroscopic anatomy of the nervous, digestive, lymphatic, integumentary, respiratory, renal, haemopoietic, endocrine and reproductive systems.

**Course:** LS36

**Prerequisite:** LSB130

**Credit Points:** 8      **Contact Hours:** 3 per week

### ■ **LSB231 PHYSIOLOGY**

Introduces students to the basic concepts of physiology and pharmacology. It will provide an overview of the functions of body systems so that students can understand biological disorders and pharmacological strategies which may be used in their treatment.

**Course:** HM42

**Credit Points:** 12      **Contact Hours:** 6 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.

**Courses:** ED50, SC30

**Prerequisite:** LSB122

**Credit Points:** 12      **Contact Hours:** 5 per week

### ■ **LSB240 PHYSIOLOGY 2**

Basic mechanisms: cells, fluids, electrolytes; energy metabolism; nutrients; transport mechanisms; blood; communication and control; excitable tissues. Control systems: nervous and endocrine.

**Course:** LS36

**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.

**Course:** PH38

**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. Emphasis on gaining an appreciation of the relationship between structure and function at the levels of cells, tissues, organs and organ systems. Related medical terminology.

**Courses:** ED50, PU42, PU44, PU49, SC30

**Credit Points:** 12      **Contact Hours:** 5 per week

## ■ LSB251 MICROBIOLOGY

Basic microbiology with special emphasis on clinical microbiology; the characteristics of medically-important organisms, sterilisation and disinfection, host-parasite relationships, resistance and immunity, infectious diseases, diagnosis, selected microbial infections, chemotherapy and development of resistance by microorganisms.

**Courses:** NS40, NS48

**Credit Points:** 8      **Contact Hours:** 3 per week

## ■ LSB261 SYSTEMATIC ANATOMY

An extension of LSB151. A unit dealing with the microscopic and macroscopic anatomy of the nervous, digestive, lymphatic, integumentary, respiratory, renal, endocrine, muscular and reproductive systems and the basic macroscopic anatomy of the lower limb.

**Course:** PU45

**Prerequisite:** LSB161

**Credit Points:** 8      **Contact Hours:** 3 per week

## ■ LSB271 ANATOMY & PHYSIOLOGY 2

This unit 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.

**Course:** PU48

**Prerequisite:** LSB171

**Credit Points:** 12      **Contact Hours:** 4 per week

## ■ LSB281 PHYSIOLOGY & PHARMACOLOGY

The basic principles of normal body function; an introduction to pharmacology.

**Courses:** NS40, NS48

**Incompatible with:** PNB115, or PNB240 or PND241

**Credit Points:** 8      **Contact Hours:** 3 per week

## ■ LSB300 MICROBIOLOGY 3

An introductory core unit in microbiology dealing with cytology, nutrition, genetics control of microbial populations and principles of taxonomy.

**Course:** LS36

**Prerequisite:** LSB100

**Co-requisite:** LSB308

**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.

**Courses:** PU42, PU44

**Credit Points:** 8      **Contact Hours:** 3 per week

## ■ LSB302 ANIMAL BIOLOGY 1

Together with LSB402, this unit provides the foundation in animal biology that is essential for later specialist units in population studies and aquaculture. It deals with non-chordates and covers the following topics: taxonomy, systematics, nomenclature, clas-

sification, ultrastructure, life histories, structure and physiology, and evolutionary trends.

**Courses:** ED50, SC30

**Prerequisite:** LSB122

**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.

**Course:** PU49

**Prerequisite:** CHB259

**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.

**Courses:** ED30, LS36, SC30

**Prerequisites:** LSB232, CHB282 or CHB242

**Credit Points:** 12

**Contact Hours:** 5 per week

## ■ LSB310 QUANTITATIVE LABORATORY TECHNOLOGY 3

The unit deals with techniques encountered in the clinical laboratory. Topics include: immunoassay, enzymic analysis, electrophoresis, isoelectric focusing, gel filtration, ion exchange, and affinity chromatography. Emphasis is placed on the maintenance of accuracy, precision and quality control including statistical control in the clinical laboratory.

**Course:** LS36

**Prerequisite:** LSB210

**Credit Points:** 8

**Contact Hours:** 4 per week

## ■ LSB312 MARINE STUDIES

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.

**Courses:** ED50, SC30

**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.

**Course:** SC30

**Prerequisites:** CHB282, MAB237

**Co-requisite:** LSB308

**Credit Points:** 12

**Contact Hours:** 5 per week

## ■ LSB321 SYSTEMATIC PATHOLOGY

Diseases of the organ systems: cardiovascular, respiratory, alimentary, urogenital, nervous musculoskeletal, endocrine, haematologic and skin.

**Course:** PH38

**Prerequisite:** LSB221

**Credit Points:** 8

**Contact Hours:** 3 per week

## ■ LSB322 PLANT BIOLOGY

Plant biology: morphology, anatomy reproduction, taxonomy and identification in the plant kingdom; includes a small practical project; emphasis on species of economic value; a basis for further study in plant tissue culture, physiology and ecology.

**Courses:** ED50, SC30

**Prerequisite:** LSB122

**Credit Points:** 12

**Contact Hours:** 5 per week

## ■ LSB328 MICROBIOLOGY 3

An introductory core unit of lectures and practical exercises in microbiology dealing with cytology,

nutrition, genetics control of microbial populations and principles of taxonomy.  
**Courses:** ED50, SC30  
**Prerequisite:** LSB232 **Co-requisite:** LSB308  
**Credit Points:** 12 **Contact Hours:** 5 per week

### ■ LSB331 ADVANCED ANATOMY

The structures, function and anatomy of the lower limb; anatomical knowledge fundamental to the understanding of the functional and applied aspects of podiatric anatomy; major topics: osteology, myology, arthrology, angiology and neurology.  
**Course:** PU45  
**Prerequisite:** LSB261 **Co-requisite:** PNB302  
**Credit Points:** 8 **Contact Hours:** 6 per week

### ■ LSB332 PLANT PHYSIOLOGY 1

Whole plant physiology and the functional systems of plants; an important unit for students continuing their studies in the plant biotechnology and ecology areas.  
**Courses:** ED50, SC30 **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.  
**Course:** LS36  
**Prerequisite:** LSB230 and LSB240  
**Credit Points:** 8 **Contact Hours:** 4 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.  
**Course:** PH38 **Prerequisite:** LSB241  
**Credit Points:** 8 **Contact Hours:** 4 per week

### ■ LSB351 HUMAN ANATOMY 3

An extension of LSB151. Lectures and practicals on basic embryology, structure and development of the eye, and gross and microscopic anatomy of the major organ systems of the human body.  
**Course:** OP42 **Prerequisite:** 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 basic ecological models and modelling techniques. Topics include: ecology of single populations, life history and demography, interactions within and between populations, population regulation, management, behavioural ecology, energetics and biogeography.  
**Courses:** ED50, SC30  
**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.  
**Course:** SC30 **Prerequisite:** LSB242  
**Credit Points:** 12 **Contact Hours:** 5 per week

### ■ LSB361 FUNDAMENTALS OF MEDICINE 1

Provides students with the theoretical basis for an understanding of the process of medical care. 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.  
**Course:** PU48 **Prerequisite:** LSB271  
**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ LSB362 QUANTITATIVE METHODS IN LIFE SCIENCE

Emphasises practical considerations of field and laboratory-based experimentation in life science, and provides experience in problem assessment, definition and formulation of testable hypotheses.  
**Courses:** ED50, SC30  
**Prerequisite:** MAB237 or MAB447  
**Credit Points:** 12 **Contact Hours:** 5 per week

### ■ LSB370 DISEASE PROCESSES

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. 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.  
**Courses:** LS36, OP42 **Co-requisite:** LSB306  
**Prerequisite:** LSB151 or LSB130  
**Credit Points:** 4 **Contact Hours:** 2 per week

### ■ LSB371 BIOCHEMISTRY 4

The structures and functions of proteins, carbohydrates, lipids and nucleic acids, basic enzymology, mechanisms of cellular energy production and the role of ATP; the metabolism of carbohydrates, lipids and amino acids and the fundamentals of protein biosynthesis and molecular biology.  
**Courses:** OP42, PU45 **Prerequisite:** CHB242  
**Credit Points:** 8 **Contact Hours:** 4 per week

### ■ LSB372 AQUACULTURE 1

A practical unit introducing methods and techniques associated with the commercial production of aquatic animal species in hatcheries and on aquafarms. Topics include: water quality measurement and management; intensive production of food organisms; induction of maturation and spawning; nursing and rearing larvae and fry; feeding; diagnosis and treatment of health problems; handling and husbandry.  
**Course:** SC30 **Prerequisite:** LSB302  
**Credit Points:** 12 **Contact Hours:** 5 per week

### ■ LSB400 MICROBIOLOGY 4

An extension of the core unit 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.  
**Course:** LS36  
**Prerequisite:** LSB300 **Co-requisite:** LSB408  
**Credit Points:** 8 **Contact Hours:** 4 per week

**■ LSB401 MICROBIOLOGY**

An introductory core unit of lectures and practical exercises in microbiology dealing with cytology, nutrition, genetics, control of microbial populations, and principles of taxonomy.

Course: PU45

Credit Points: 8 Contact Hours: 3 per week

**■ LSB402 ANIMAL BIOLOGY 2**

This unit, together with LSB302, provides the foundation in animal biology essential for later specialist units in population studies and aquaculture. The unit deals with chordates and covers the following topics: embryology, development, structure, physiology, classification and major evolutionary trends.

Courses: ED50, SC30

Prerequisite: LSB302

Credit Points: 12 Contact Hours: 5 per week

**■ LSB405 MICROBIOLOGY**

Scope of microbiology; major microbial types; microbial metabolism; water; food and micro-organisms; food presentation; spoilage of food; food-borne disease; food hygiene; microbial fermentation of foods; environmental and industrial microbiology.

Course: PU49

Prerequisite: CHB001

Co-requisite: CHB259

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.

Courses: LS36, SC30

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.

Courses: ED50, SC30

Prerequisite: LSB352

Credit Points: 12 Contact Hours: 5 per week

**■ LSB418 BIOCHEMICAL METHODOLOGY 4**

Extended studies of chromatographic and electrophoretic methods, protein binding techniques and the methodology of protein and nucleic analysis.

Course: SC30

Prerequisite: LSB318

Co-requisite: LSB408

Credit Points: 12 Contact Hours: 5 per week

**■ LSB421 IMAGING PATHOLOGY**

The appearances of pathology on medical images with particular emphasis on the radiographic image.

Course: PH38

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: biogeochemical cycles, soils, nutrient cycling, vegetation classification and mapping, and techniques for characterising the physical environment. Field work is incorporated.

Course: ED50, SC30

Prerequisite: LSB352

Credit Points: 12 Contact Hours: 5 per week

**■ LSB428 MICROBIOLOGY 4**

An extension of LSB328; aspects of microbial taxonomy, food and water microbiology, microbial

ecology, industrial and agricultural microbiology; micro-organisms as infectious agents.

Course: SC30

Prerequisite: LSB328

Co-requisite: LSB408

Credit Points: 12

Contact Hours: 5 per week

**■ LSB430 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, immunisation of man against infections.

Course: LS36

Prerequisites: LSB300 and LSB340

Credit Points: 8

Contact Hours: 4 per week

**■ LSB431 MICROBIOLOGY 2**

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 industrial processes, enumeration of micro-organisms, and control of microbial populations. Classification of viruses and their reproductive cycle.

Courses: PU42, PU44

Prerequisite: LSB301

Credit Points: 8

Contact Hours: 3 per week

**■ LSB432 GENETICS**

An introductory unit 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.

Courses: ED50, SC30

Prerequisite: LSB122

Credit Points: 12

Contact Hours: 5 per week

**■ LSB437 MOLECULAR BIOLOGY**

The basic aspects of molecular biology, genetic engineering and clinical applications of biotechnology. The unit 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.

Course: LS36

Prerequisite: LSB308

Co-requisite: LSB408

Credit Points: 8

Contact Hours: 4 per week

**■ LSB438 IMMUNOLOGY 4**

The mechanisms of the immune process: 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.

Course: SC30

Prerequisites: LSB328, LSB242

Credit Points: 12

Contact Hours: 5 per week

**■ LSB441 IMAGING ANATOMY**

A study of the appearances on medical images of normal anatomy.

Course: PH38

Credit Points: 8

Contact Hours: 4 per week

**■ LSB442 PLANT TISSUE CULTURE 1**

A broad introduction to plant tissue culture. Techniques and media preparation leading to a coverage of micropropagation; topics 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.

Course: SC30

Prerequisite: LSB332

Credit Points: 12

Contact Hours: 5 per week

#### ■ LSB450 HAEMATOLOGY 4

In the first of the three haematology units 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. Basic haematologic tests: 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.

Course: LS36

Co-requisite: LSB408

Prerequisites: LSB230, LSB308, LSB310

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. Presented as a one semester program.

Courses: OP42, PU45

Prerequisite: LSB351 or LSB261

Credit Points: 12

Contact Hours: 7 per week

#### ■ LSB458 PHYSIOLOGY 3S

A continuation of LSB358.

Course: SC30

Prerequisite: LSB358

Credit Points: 12

Contact Hours: 5 per week

#### ■ LSB460 HISTOPATHOLOGY 4

An introductory unit 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.

Course: LS36

Prerequisites: LSB230, CHB242

Credit Points: 8

Contact Hours: 4 per week

#### ■ LSB461 FUNDAMENTALS OF MEDICINE 2

Continues the study of the process of medical care begun in LSB361. The roles and functions of allied health professions, and of technological services in the diagnosis and treatment of disease.

Course: PU48

Prerequisite: LSB361

Credit Points: 12

Contact Hours: 3 per week

#### ■ LSB468 MOLECULAR BIOLOGY

An introductory unit of lectures/practical/tutorial classes on the structure and biochemistry of the nucleic acids and methodologies for their analysis. Topics include: genome organisation and replication in bacteriophages, plasmids, bacteria and eukaryotes; the enzymes involved in replication of DNA and RNA; nucleic acid isolation and purification; transcription and translation of the genetic code *in vivo*.

Courses: LS70, SC30

Prerequisite: LSB308

Co-requisite: LSB408

Credit Points: 12

Contact Hours: 5 per week

#### ■ LSB470 DISEASE PROCESSES 4

See LSB370.

Course: PU45

Credit Points: 8

Contact Hours: 4 per week

#### ■ LSB480 PROFESSIONAL PRACTICE

Students (both full-time and part-time) undertake a 2-4 week work experience program.

Course: LS36

#### ■ LSB485 AUSTRALIAN BIOLOGY

The geological and climatic history of the Australian continent, 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 abun-

dance, scientific interest or economic importance are discussed. The structure of selected plant communities and their social and economic relevance.

Course: ED26

Credit Points: 12

Contact Hours: 5 per week

#### ■ LSB491 MICROBIOLOGY 3

An introductory core unit of microbiology for students of optometry: with cytology, nutrition, genetics, control of microbial populations and principles of taxonomy in relation to optometry.

Courses: OP42, OP49

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.

Course: LS36

Prerequisite: LSB400

Credit Points: 16

Contact Hours: 7 per week

#### ■ LSB502 PROJECTS 1

Develops the student's capacity for managing their own work. Projects emphasise specific investigatory skills in reviewing, collating, interpreting and presenting data; contribution to a seminar is usually required. Projects, supervised by 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 unit leads into LSB990.

Course: SC30

Credit Points: 16

Contact Hours: 6 per week

#### ■ LSB508 BIOCHEMISTRY 5

The catabolic and anabolic pathways for the major macromolecules in mammalian systems; non-mammalian metabolism; 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.

Course: SC30

Prerequisite: LSB408

Credit Points: 12

Contact Hours: 5 per week

#### ■ LSB512 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.

Course: SC30

Credit Points: 8

Contact Hours: 3 per week

#### ■ LSB520 CLINICAL BIOCHEMISTRY 5

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.

Course: LS36

Prerequisites: LSB408, LSB310, LSB340

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; the kinetics of growth; biosynthesis of cellular materials; regulation of metabolism; microbial genetics; sporogenesis and germination.

Course: SC30 Prerequisite: LSB428  
Credit Points: 12 Contact Hours: 5 per week

**■ LSB530 IMMUNOLOGY 5**

This unit 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.

Course: LS36  
Prerequisites: LSB430, LSB408, LSB400  
Credit Points: 8 Contact Hours: 4 per week

**■ LSB532 POPULATION GENETICS**

An extension of Introductory Genetics. 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 practical or theoretical problems.

Course: SC30 Prerequisite: LSB432  
Credit Points: 8 Contact Hours: 3 per week

**■ LSB538 MOLECULAR BIOLOGY**

An introductory unit 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 mutagenesis; transcription and translation; gene structure, function and expression in prokaryotes and eukaryotes; transferable DNA including plasmids, bacteriophage and transposable elements. Note: 1993 final year offered.

Courses: LS65, LS70, SC30  
Prerequisites: LSB408, LSB428  
Credit Points: 12 Contact Hours: 5 per week

**■ LSB542 PLANT TISSUE CULTURE 2**

Cellular and biochemical aspects of plant growth are integrated with standard plant tissue culture practice in this unit. Theories and techniques of modern plant biotechnology are introduced, including cytogenetics, protoplast isolation, and the unusual carbohydrate metabolism of plants in tissue culture.

Course: SC30 Prerequisite: LSB442  
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.

Courses: LS65, SC30  
Prerequisite: LSB318 Co-requisite: LSB508  
Credit Points: 12 Contact Hours: 5 per week

**■ LSB550 HAEMATOLOGY 5**

The first of two units in which the student is introduced to the diseases of the blood: cause, laboratory investigation, prognosis, principles of treatment and laboratory monitoring of treatment. The blood disorders discussed include: anaemias of defective haem and porphyrin synthesis, anaemias caused by abnormalities in globin biosynthesis, macrocytic anaemias, hypoproliferative anaemias, anaemia of chronic renal failure, liver disease, haemolytic anaemias.

Course: LS36  
Prerequisites: LSB310, LSB408, LSB450  
Credit Points: 8 Contact Hours: 4 per week

**■ LSB558 APPLIED PHYSIOLOGY**

An extension and reinforcement of prior knowledge of physiological processes and their inter-relations; an understanding of the physiological changes which occur in a specific range of cardiovascular, renal, gastrointestinal and neurological disorders; the effects of ambient conditions on normal physiological function and ability to perform work; basic nutritional concepts and factors affecting nutrient requirements.

Courses: PU62, SC30, SC60  
Prerequisite: 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.

Course: LS36 Prerequisites: LSB408, LSB460  
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 included with emphasis on methods complementary to biology, microbiology and molecular biology. Analytical capabilities of electron beam instruments.

Courses: ED50, SC30  
Credit Points: 12 Contact Hours: 5 per week

**■ LSB572 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; production improvement; polyculture; case studies.

Course: SC30 Prerequisite: LSB372  
Credit Points: 12 Contact Hours: 5 per week

**■ LSB578 VIROLOGY**

Lectures and practical classes designed to introduce students to the basic concepts of virology. A range of viruses and virus diseases will be examined and topics include: virus morphology and composition, taxonomy and classification, replication, purification, diagnosis and assay, transmission and control.

Course: SC30 Prerequisite: LSB428  
Credit Points: 12 Contact Hours: 5 per week

**■ LSB582 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.

Course: SC30 Prerequisite: LSB362  
Credit Points: 12 Contact Hours: 5 per week

### ■ LSB592 FIELD STUDIES 2

A field-based unit in which students use the background information gained in LSB352 to sample aquatic populations; may include extended field trips.

Course: SC30

Prerequisite: LSB352

Credit Points: 12

Contact Hours: 5 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.

Course: LS36

Prerequisite: LSB400

Credit Points: 16

Contact Hours: 7 per week

### ■ LSB602 PROJECTS 2

This elective unit 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 unit matter of experimental units 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.

Course: SC30

Credit Points: 16

Contact Hours: 6 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 active site chemistry.

Course: SC30

Prerequisites: LSB418, LSB308

Credit Points: 12

Contact Hours: 5 per week

### ■ LSB618 ANALYTICAL BIOCHEMISTRY 6

A companion to unit LSB608 extending the material of LSB418 into biochemical analysis: enzyme-based analyses, advanced analysis using isotopes, immunoassays and the major biomolecules.

Courses: LS65, SC30

Prerequisite: LSB418

Co-requisite: LSB608

Credit Points: 12

Contact Hours: 5 per week

### ■ LSB620 CLINICAL BIOCHEMISTRY 6

Skills in 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.

Course: LS36

Prerequisite: LSB520

Credit Points: 8

Contact Hours: 4 per week

### ■ LSB622 CASE STUDIES

Application of skills and techniques to a current research problem in ecology. Skills in problem appraisal, experimental design and data handling and processing are developed, with field work.

Course: SC30

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, food-borne 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.

Course: SC30

Prerequisite: LSB528

Credit Points: 12

Contact Hours: 5 per week

### ■ LSB630 IMMUNOHAEMATOLOGY 6

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.

Course: LS36

Prerequisite: LSB530

Credit Points: 8

Contact Hours: 4 per week

### ■ LSB632 PLANT PHYSIOLOGY 2

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.

Course: SC30

Credit Points: 12

Contact Hours: 5 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 and disease diagnosis. Note: 1993 final year offered.

Courses: SC30, LS70, LS65

Prerequisite: LSB538

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.

Course: SC30

Prerequisite: LSB528

Credit Points: 12

Contact Hours: 5 per week

### ■ LSB650 HAEMATOLOGY 6

Continues the study of blood diseases. Topics include: inherited and acquired coagulation factor disorders, fibrinolysis, thrombosis, anticoagulant therapy platelet disorders, cellular kinetics, growth factors, non malignant and malignant leucocyte disorders, paediatric and veterinary haematology.

Course: LS36

Prerequisite: LSB550

Credit Points: 8

Contact Hours: 4 per week

### ■ LSB652 BIOLOGICAL RESOURCES

Aspects of ecosystem management related to naturally occurring materials and ecosystems unit to interact

tive 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.

Course: SC30

Credit Points: 12 Contact Hours: 5 per week

### ■ LSB658 CLINICAL PHYSIOLOGY

The physiological basis of the pathogenesis, clinical features and treatment of the major disorders of the cardiovascular, respiratory, haematological, renal, gastrointestinal and endocrine systems. 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.

Course: SC30 Prerequisite: LSB358, LSB458

Credit Points: 12 Contact Hours: 5 per week

### ■ LSB660 HISTOPATHOLOGY 6

Reviews recent advances in diagnostic histopathology and introduces advanced and specialised methods including scanning electron microscopy and X-ray microanalysis. Techniques for diagnostic cytology concentrating on specimen preparation and the microscopic detection of cancerous and other abnormal cells in human tissues and body fluids.

Course: LS36 Prerequisite: LSB560

Credit Points: 8 Contact Hours: 4 per week

### ■ LSB662 POPULATION MANAGEMENT

The principles of biological population management; natural populations and three forms of management; pest control, harvesting and conservation. Field trips and computer simulations are used to investigate management methods.

Course: SC30

Credit Points: 12 Contact Hours: 5 per week

### ■ LSB682 SELECTED TOPICS 2

A final semester unit providing 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.

Course: SC30

Credit Points: 12 Contact Hours: 5 per week

### ■ LSB722 RESEARCH STRATEGIES

A series of seminars presented by staff of the Faculties of Health and Science and other research scientists on 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.

Course: SC60

Credit Points: 16 Contact Hours: 4 per week

### ■ LSB723 READINGS IN LIFE SCIENCE 1

The preparation of a literature review of direct and associated relevance to the Honours research project 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.

Course: SC60

Credit Points: 16

### ■ 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.

Course: LS65

Credit Points: 10

### ■ LSB734 ANALYTICAL ELECTRON MICROSCOPY

An advanced course in electron microscopy with emphasis on the applications of labelling and analytical techniques. Methods covered 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.

Course: SC60

Credit Points: 12 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.

Course: LS65

Credit Points: 12 Contact Hours: 5 per week

### ■ LSB801 ADVANCED PLANT PHYSIOLOGY & BIOCHEMISTRY

Plant physiology and biochemistry of current research interest are covered, expanding upon material in the third year Plant Biochemistry unit. Students select from a reading list and present seminars.

Course: LS60

Credit Points: 12 Contact Hours: 5 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.

Course: LS65

Credit Points: 12 Contact Hours: 5 per week

### ■ LSB804 ADVANCED POPULATION BIOLOGY

An extended treatment of major questions in population biology. Students are expected to develop a detailed understanding of population processes and aspects of evolutionary theory at both the individual and population level. The unit includes theoretical core material, group tutorials and individual programs designed around student needs. Students are required to present a review paper and a formal seminar on an assigned topic.

Course: SC60

Credit Points: 12 Contact Hours: 5 per week

### ■ LSB823 READINGS IN LIFE SCIENCE 2

The preparation of a paper reporting the methods and results of investigations in the Honours Research Projects. 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. Students should relate this project work to published work already undertaken in the field.

**Course:** SC60

**Credit Points:** 48      **Contact Hours:** 1 per week

#### ■ LSN009 READINGS IN LIFE SCIENCE 4

A review of literature in an area determined in consultation with the supervisor. The area can be associated with the research project topic and can be broadly or narrowly focussed but should not include any significant material covered in LSN013. The review should cover the background to the area as well as recent advances and identify deficiencies and possible future research directions. The review should be a critical analysis of the area. Reviews should normally be approximately 5,000 words.

**Course:** IF49, SC80

**Credit Points:** 12      **Contact Hours:** 1 per week

#### ■ LSN010 READINGS IN LIFE SCIENCE 5

See LSN009.

**Courses:** IF49, SC80

**Credit Points:** 12      **Contact Hours:** 1 per week

#### ■ LSN011 RESEARCH SEMINARS IN LIFE SCIENCE 1

A 30 minute public seminar to include a presentation and question period addressing the background to the proposed research topic in the postgraduate degree and outlining the proposed directions of the research program. The seminar should normally be presented within 12 months (full-time) or 24 months (part-time) of commencement of the postgraduate program.

**Courses:** IF49, SC80

**Credit Points:** 6      **Contact Hours:** 1 per week

#### ■ LSN012 RESEARCH SEMINARS IN LIFE SCIENCE 2

A 30 minute public seminar to include a presentation and question period outlining the progress made in the postgraduate research program as well as the proposed research to complete the project.

**Courses:** IF49, SC80

**Credit Points:** 6      **Contact Hours:** 1 per week

#### ■ LSN013 READINGS IN LIFE SCIENCE 3

A comprehensive and critical review of the background and current literature directly related to the research project topic. The review should identify major and minor deficiencies in the research literature and identify possible directions for future research. The review should be approximately 10,000 words and at least one draft should be presented to the supervisor prior to final submission.

**Course:** IF49, SC80

**Credit Points:** 24      **Contact Hours:** 1 per week

#### ■ LSN023 RESEARCH SEMINARS IN LIFE SCIENCE 3

A 60 minute public seminar to include a presentation and question period outlining the results of the postgraduate research program as well as possible future research directions in this area.

**Course:** IF49, SC80

**Credit Points:** 12      **Contact Hours:** 1 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: immune, inflammation, thrombosis, ageing and neoplastic responses. Transplantation and regeneration.

**Course:** LS85

**Prerequisite:** 24 credit points in LS85

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ LSN110 MOLECULAR BASIS OF DISEASE

The aetiology, diagnosis and treatment of various diseases; study of molecular structures, biochemical reactions, 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.

**Course:** LS85

**Prerequisite:** 24 credit points in LS85

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ LSN150 EPIDEMIOLOGY & RESEARCH STRATEGIES

The principles and applications of epidemiology, 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.

**Courses:** LS85, NS85

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ LSN158 ULTRASONIC PATHOLOGY

Pathology as applicable to diagnostic ultrasound; basic embryology and genetics.

**Course:** PH80

**Credit Points:** 6      **Contact Hours:** 2 per week

#### ■ LSN161 ANATOMY & PHYSIOLOGY 1

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.

**Course:** PH80

**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.

**Course:** PH80

**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.

**Courses:** LS85, PH80

**Prerequisite:** 72 credit points in LS85

**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 unit offers tutorial and student seminar sessions.

**Course:** LS85

**Prerequisite:** 72 credit points in LS85

**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.

**Course:** LS85

**Prerequisite:** 96 credit points in LS85

**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 selected from: haemopoietic kinetics, haemolytic disease, haemostasis and the haematologic implications of systemic disease. Assessment is by formal examination, assignments and seminar participation.

**Course:** LS85

**Prerequisite:** 96 credit points in LS85

**Credit Points:** 12 **Contact Hours:** 3 per week

## ■ LSN512 HISTOPATHOLOGY 1

Recent advances and modern methods in diagnostic histopathology. Topics include: immunohistochemistry, enzyme histochemistry and transmission electron microscopy methods.

**Course:** LS85

**Prerequisite:** 96 credit points in LS85

**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.

**Course:** LS85

**Prerequisite:** 96 credit points in LS85

**Credit Points:** 12 **Contact Hours:** 3 per week

## ■ LSN517 IMMUNOLOGY 1

Information retrieval systems and scientific writing. Five essay topics are selected following discussion with students, supervisor/employer.

**Course:** LS85

**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.

**Course:** LS85

**Credit Points:** 12 **Contact Hours:** 3 per week

## ■ LSN530 DISSERTATION 1

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.

**Course:** LS85

**Prerequisite:** 96 credit points in LS85

**Credit Points:** 12 **Contact Hours:** 3 per week

## ■ LSN531 DISSERTATION 2

See LSN530.

**Course:** LS85

**Prerequisite:** 96 credit points in LS85

**Credit Points:** 12 **Contact Hours:** 3 per week

## ■ LSN610 CLINICAL BIOCHEMISTRY 2

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 results.

**Course:** LS85

**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, non-malignant and malignant leucocyte disorders, transplantation, automation and quality control. Since outside lecturers participate in these specialist electives some interchange of topics between this unit and LSN511 may be necessary.

**Course:** LS85

**Prerequisite:** LSN511

**Credit Points:** 12 **Contact Hours:** 3 per week

## ■ LSN612 HISTOPATHOLOGY 2

Methods in diagnostic histopathology. The design and assessment of diagnostic programs to aid the identification of tumours and diseases of selected organ systems. Specialised techniques including aspiration cytology, scanning electron microscopy and analytical electron microscope methods.

**Course:** LS85

**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.

**Course:** LS85

**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.

**Course:** LS85

**Prerequisite:** LSN517

**Credit Points:** 12 **Contact Hours:** 3 per week

## ■ LSN618 DIAGNOSTIC CYTOLOGY 2

Exploration of recent advances, methods and their applications in diagnostic cytology of body sites. Topics include: respiratory and urinary tract, body fluids and techniques such as fine needle aspiration.

**Course:** LS85

**Prerequisite:** LSN518

**Credit Points:** 12 **Contact Hours:** 3 per week

## ■ LSP105 MOLECULAR DIAGNOSIS OF DISEASE

Lectures and laboratory exercises in advanced molecular techniques of disease diagnosis; the preparation of samples; the use of DNA probes in

southern blots, RFLP analysis and DNA fingerprinting; the use of PCR. Note: 1993 final year offered.  
**Courses:** LS70, LS65  
**Prerequisite:** LSP120 or LSB736  
**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). Note: 1993 final year offered.  
**Courses:** LS70, SC60  
**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. Students present a seminar on some aspect of biotechnology research.  
**Course:** LS70  
**Credit Points:** 12      **Contact Hours:** 5 per week

#### ■ LSP145 PROJECT

Students in the Graduate Diploma in Biotechnology may be required to select, in consultation with their employer and an academic supervisor, a 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 unit 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.  
**Course:** LS70  
**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ LSP735 HUMAN MOLECULAR BIOLOGY

A course of specialist lectures and research assignments for postgraduate students relating to the organisation and regulation of expression of information stored in the human genome. Additional areas include the molecular basis of genetic disorders, cancer, oncogenes and infectious disease; and clinical applications of nucleic acid diagnostic procedures eg. linkage analysis, DNA profiling, genetic screening.  
**Courses:** LS65, LS70, LS85, SC60  
**Prerequisite:** LSB638  
**Credit Points:** 12      **Contact Hours:** 5 per week

#### ■ LSP737 PLANT & ANIMAL MOLECULAR BIOLOGY

Lectures and research assignments in the techniques and applications of molecular biology for the genetic manipulation of plants and animals.  
**Courses:** LS65, LS70, LS85, SC60  
**Prerequisite:** LSB638  
**Credit Points:** 12      **Contact Hours:** 5 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.  
**Course:** SC10  
**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.  
**Course:** SC10  
**Credit Points:** 8      **Contact Hours:** 3 per week

#### ■ LSX121 BIOLOGICAL CHEMISTRY 1

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.  
**Course:** LS15  
**Credit Points:** 8      **Contact Hours:** 4 per week

#### ■ LSX122 LABORATORY INSTRUMENTATION 1

The principles, care and effective usage of basic laboratory equipment including glassware, plastics, balances, spectrophotometers, flame photometers, autotitrators, pH meters and specific ion meters. Programmable calculators and computers are used during the practical course to illustrate modern methods of data manipulation. Experience in the handling of chemicals and in the preparation of reagents and standards. Emphasis on laboratory safety.  
**Course:** LS15      **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.  
**Course:** LS15  
**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.  
**Course:** LS15  
**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. The morphology and physiology of cells and tissues; the structure and function of the skeletal, muscular, nervous and integumentary systems.  
**Course:** LS15  
**Credit Points:** 8      **Contact Hours:** 3 per week

#### ■ LSX210 BIOLOGY B

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.  
**Course:** SC10      **Prerequisite:** BEA108  
**Credit Points:** 8      **Contact Hours:** 3 per week

**■ LSX211 CELL STRUCTURE & FUNCTION**

A general unit in cell biology including the living cell and its processes, structure and function: photosynthesis, respiration, intermediary metabolism.

Course: SC10

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. An introduction to the use of computer software packages.

Course: SC10

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 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.

Course: SC10

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.

Course: LS15      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 chromatographic procedures and methods of electrophoresis, dialysis, filtration, centrifugation.

Course: LS15

Credit Points: 8      Contact Hours: 4 per week

**■ LSX223 MICROBIOLOGY 2**

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 immunity.

Course: LS15

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.

Course: LS15

Credit Points: 8      Contact Hours: 2 per week

**■ LSX225 ANATOMY & PHYSIOLOGY 2**

Continuation of LSX125; structure and function of organs and systems; the cardiovascular, lymphatic, respiratory, digestive, urinary, reproductive, and endocrine systems.

Course:

Prerequisite: LSX125      Co-requisite: LSX222

Credit Points: 8      Contact Hours: 3 per week

**■ LSX310 INTRODUCTION TO BIO CULTURE**

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 unit provides the theoretical basis for students undertaking electives in aquaculture techniques and/or plant tissue culture.

Course: SC10

Credit Points: 8      Contact Hours: 3 per week

**■ LSX311 COMPUTER APPLICATIONS IN BIOLOGY**

Microcomputers and applications-software such as wordprocessing, databases, spreadsheets, and computer graphics for report presentation. This unit is not oriented towards any specific computer language.

Course: SC10

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 their maintenance.

Course: SC10

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. Short lectures and tutorials associated with the practical exercises.

Course: SC10

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; spawning, rearing, handling and stock assessment.

Course: SC10

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.

Course: SC10

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 unit.

Course: SC10

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.

Course: SC10

Prerequisites: LSX221, LSX225, LSX222

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.

Course: SC10

Prerequisite: LSX223

Credit Points: 8 Contact Hours: 4 per week

### ■ LSX322 HAEMATOLOGICAL TECHNIQUES 3

Lectures and practical work in 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.

Course: LS15

Prerequisites: LSX122, LSX221, LSX225

Credit Points: 8 Contact Hours: 4 per week

### ■ LSX323 HISTOLOGICAL TECHNIQUES 3

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.

Course: LS15

Prerequisites: LSX122, LSX221, LSX225

Credit Points: 8 Contact Hours: 4 per week

### ■ LSX324 IMMUNOLOGICAL TECHNIQUES 3

Introduction to immunology with particular emphasis on the principle and performance of immunological techniques including blood grouping. Topics include: antigens, antibodies and the immune system.

Course: LS15

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. Basis for clinical cytology offered in LSX425.

Course: LS15

Prerequisites: LSX221, 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.

Course: LS15

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.

Course: LS15

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.

Course: LS15

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.

Course: LS15

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.

Course: SC10

Credit Points: 8 Contact Hours: 3 per week

### ■ LSX411 POPULATION BIOLOGY

Population biology: structure and dynamics, evolution and differentiation; the relationships between the genetics, energetics and dynamics of populations leading to particular life-history strategies. Field excursions are compulsory.

Course: SC10

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 unit.

Course: SC10

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 an introduction to the basic techniques and their limitations.

Course: SC10

Prerequisites: BEA108, BEA198

Credit Points: 8 Contact Hours: 3 per week

### ■ LSX414 ANIMAL PHYSIOLOGY

The general physiological processes which sustain life; animal-environment interactions.

Course: SC10

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. Appropriate laboratory exercises.

Course: SC10

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.

Course: LS15

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 unit.

Course: LS15      Prerequisite: LSX223  
Credit Points: 8      Contact Hours: 4 per week

**■ LSX422 HAEMATOLOGICAL TECHNIQUES 4**

An extension of LSX322. The student is introduced to the common blood disorders. A brief outline of their aetiology 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.

Course: LS15      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.

Course: LS15      Prerequisite: 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, transfusion reactions, antenatal testing, quality control, intravenous fluids, blood products.

Course: LS15      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.

Course: LS15      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 and special equipment used in lung and cardiac surgery.

Course: LS15      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.

Course: LS15      Prerequisite: LSX332  
Credit Points: 12      Contact Hours: 5 per week

**■ LSX433 ANAESTHESIA FOR SPECIALISED SURGERY**

Surgical interventions requiring anaesthesia; the techniques used and their effects on the vital parameters of patients in these special circumstances.

Course: LS15      Prerequisite: LSX332  
Credit Points: 12      Contact Hours: 5 per week

**■ LSX434 PROFESSIONAL PRACTICE**

The practical skills needed for the proper delivery of anaesthetics. This is essentially a practical unit, 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.

Course: LS15      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, the doctrines and methodology of the Law, the doctrine of precedent, the principles of statutory interpretation.

Courses: IF31, IF33, IF34, IF36, LW31, LX31  
Credit Points: 12 per semester  
Contact Hours: 3 per week

**■ LWB102 LAW OF CONTRACT**

Contract law: 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.

Courses: IF31, IF33, IF34, IF36, LW31, LX31  
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.

Courses: IF31, IF33, IF34, IF36, LW31, LX31  
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. 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.

Courses: IF31, IF33, IF34, IF36, LW31, LX31  
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.

**Courses:** IF31, IF33, IF34, IF36, LW31, LX31

**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, 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, imprisonment and release procedures.

**Courses:** IF31, IF33, IF34, IF36, LW31, LX31

**Credit Points:** 12 per semester

**Contact Hours:** 3 per week

### ■ LWB203 CONSTITUTIONAL LAW

The 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.

**Courses:** IF31, IF33, IF34, IF36, LW31, LX31, LX32

**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.

**Courses:** IF31, IF33, IF34, IF36, LW31, LX31, LX32

**Credit Points:** 12 per semester

**Contact Hours:** 3 per week

### ■ LWB302 FAMILY LAW

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. Units 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.

**Courses:** LW31, LX31

**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ LWB303 COMMERCIAL LAW

The legal rules which govern mercantile dealings in personal property. The legal framework, 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.

**Courses:** IF31, IF33, IF34, IF36, LW31, LX31, LX32

**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 descrip-

tions 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.

**Courses:** LW31, LX31

**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; the structure, purpose and procedure of the Planning and Environment Court; and other Legislation related to the town planning process for example, heritage legislation.

**Courses:** LW31, LX31

**Credit Points:** 8

**Contact Hours:** 2 per week

### ■ LWB307 INSOLVENCY LAW

The unit consists of two parts. The first deals with the insolvency of individuals and the Bankruptcy Act 1966 (Cth). The second part covers winding up of companies, provisional 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 agents of and mortgagees in possession. Considers the relevant provisions of the Corporations Law.

**Courses:** LW31, LX31

**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.

**Courses:** LW31, LX31

**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.

**Courses:** IF31, IF33, IF34, IF36, LW31, LX31, LX32

**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 Crown.

**Courses:** IF31, IF33, IF34, IF36, LW31, LX31, LX32

**Credit Points:** 12 per semester

**Contact Hours:** 3 per week

### ■ LWB312 LAND CONTRACTS

This unit 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.

Courses: LW31, LX31

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 Human Rights Commission and state bodies.

Courses: LW31, LX31

Credit Points: 12      Contact Hours: 3 per week

### ■ LWB315 JESSUP INTERNATIONAL LAW MOOT

The Philip C. Jessup International Law Moot, run under the auspices of the American Society of International Law, is the premier mooting competition in any area of the law in the world attracting participants from every major jurisdiction. The competition requires the ability to research, analyse, apply and communicate (both orally and in written form) legal argument with respect to a complicated problem in Public International Law. Members of the QUT team will participate in the joint preparation of two memorials (one for the applicant and one for the respondent) satisfying the requirements of the Official Rules of the competition, with respect to the contents of and issues raised by the problem for the given year. Some or all of the team members will then present oral arguments in the Australian rounds of the Jessup Moot competition, and at the international rounds in the United States if the team wins the Australian round.

Course: LW31

Credit Points: 8      Contact Hours: 2 per week

### ■ LWB401 COMPANY LAW & PARTNERSHIP

Company law and 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.

Courses: IF31, IF33, IF34, IF36, LW31, LX31, LX32

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.

Course: IF31, IF33, IF34, IF36, LW31, LX31, LX32

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 administra-

tive 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.

Course: IF31, IF33, IF34, IF36, LW31, LX31, LX32

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.

Course: IF31, IF33, IF34, IF36, LW31, LX31, LX32

Credit Points: 12 per semester

Contact Hours: 3 per week

### ■ LWB405 SOLICITORS' TRUST ACCOUNTS

Intending solicitors must study this unit which examines the Trust Account Act and Regulations and related legislation, including the Legal Assistance Act and Queensland Law Society Act. It 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.

Courses: LW31, LX31

Credit Points: 8      Contact Hours: 2 per week

### ■ LWB406 PUBLIC INTERNATIONAL LAW

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.

Courses: LW31, LX31

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.

Courses: LW31, LX31

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 unit. 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.

**Courses:** IF31, IF34, IF36, LW31, LX31, LX32

**Credit Points:** 2

**Contact Hours:** 2 per week for 5 weeks (10 hours)

#### ■ LWB410 TRADE PRACTICES LAW

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; restrictive practices; unfair practices; jurisdictional problems and remedies.

**Courses:** LW31, LX31

**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 semester.

**Courses:** LW31, LX31

**Credit Points:** 12 **Contact Hours:** 3 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, stamp duty.

**Courses:** IF31, IF33, IF34, IF36, LW31, LX31, LX32

**Credit Points:** 8 per semester

**Contact Hours:** 2 per week

#### ■ LWB415 LEGAL RESEARCH & WRITING 2

This advanced unit revises, extends and tests students' legal research skills acquired in the introductory unit. Sources from other jurisdictions such as the UK, Canada, New Zealand and the USA are included. An important section of this unit is the researching/writing of an assignment based on a problem which involves a number of units studied during the LLB course, including researching recent developments.

**Courses:** IF31, IF33, IF34, IF36, LW31, LX31, LX32

**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.

**Course:** LW31

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ LWB481 MINERAL LAW

Predominantly, the law governing and affecting the mining of hard minerals. The unit 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; environment protection legislation.

**Course:** LW31

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ LWB482 COMPUTERS & THE LAW

An introduction to computing: how they work, hardware and software, peripherals, networks, programming. The electronic office: word processing, databases, litigation support, expert systems, administration. Legal issues in computing: privacy, evidence, copyright, computer crimes and torts, computer contracts, electronic data interchange.

**Course:** LW31

**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.

**Course:** LW31 **Prerequisites:** LWB101, LWB103

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ LWB485 ENVIRONMENTAL LAW

An introduction to the environmental legal system in Queensland. The nature and sources of environmental law in Australia, the international law context, the role of the Commonwealth, the law in Queensland concerning: access to the environment (including environmental impact assessment and planning), control and regulation of pollution, conservation of resources as a means for environmental protection.

**Course:** LW31

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ LWB486 INTELLECTUAL PROPERTY LAW

The principal statutory regimes protecting intellectual property rights in Australia, namely designs, patents, copyright and trade marks. Relevant aspects of confidential information, passing off, and Parts IV and V of the Trade Practices Act 1974 (Cth).

**Course:** LW31

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ LWB487 MARITIME LAW

This unit examines by way of interactive sessions the laws that bear upon shipping, an important means of commerce for Australia as an island nation. The study will include an examination of principles relating to carriage of goods by sea; charterparties; marine insurance; general average; salvage; collisions; admiralty jurisdiction and arrest of ships; oil pollution; registration, sale and mortgage of ships; and limitation of ship operators' liability.

**Course:** LW31

**Credit Points:** 8 **Contact Hours:** 2 per week



**■ LWN001 ADVANCED COMPANY LAW**

The first part of this unit 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.

Courses: LW50, LW51

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.

Courses: LW50, LW51

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. The principles and practice in respect of establishment, administration, distribution, taxation, liability and recognition.

Courses: LW50, LW51

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 unit 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. Law and policy comparisons with the United States and the EEC.

Courses: LW50, LW51

Credit Points: 24 Contact Hours: 2 per week

**■ LWN007 COMMERCIAL ARBITRATION**

Commercial arbitration: Australian and international. Topics include: arbitration proceedings, court control of arbitration, awards and their enforcement, and international commercial arbitration.

Courses: LW50, LW51

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.

Courses: LW50, LW51

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 unit 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 amongst others.

Courses: LW50, LW51

Credit Points: 24 Contact Hours: 2 per week

**■ LWN012 PACIFIC LEGAL STUDIES**

A comparative study of the legal systems of a number of Pacific countries, including Papua New Guinea, Australia and New Zealand. Topics include: the relationship between customary law and imposed law, constitutions and structures of government, property law and dispute resolution.

Courses: LW50, LW51

Credit Points: 12 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 unit 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 enforce the right.

Courses: LW50, LW51

Credit Points: 24 Contact Hours: 2 per week

**■ LWN014 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 course examines issues such as these from a predominantly legal perspective. It is 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 this unit.

Courses: LW50, LW51

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 unit examines the principles of restitution.

Courses: LW50, LW51

Credit Points: 12 Contact Hours: 2 per week

**■ LWN018 SELECT PROBLEMS OF TRUSTS**

The first part of the course 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 course 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.

Courses: LW50, LW51

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. The business activities of a corporation.

Courses: LW50, LW51

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.

Courses: LW50, LW51

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.

Courses: LW50, LW51

Credit Points: 12 Contact Hours: 2 per week

■ **LWN022 BANKING & FINANCE LAW 2**

Securitisation of debts; SWAP transactions; international financing; capital adequacy requirements; corporate reconstructions; tax based finance transactions.

Courses: LW50, LW51

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; the trade law of a trading partner of Australia.

Courses: LW50, LW51

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; 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; the laws of privacy and confidentiality.

Courses: LW50, LW51

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.

Courses: LW50, LW51

Credit Points: 12

■ **LWN026 RESEARCH PROJECT 2**

A supervised research project over the whole year approved by the Postgraduate Studies Committee.

Courses: LW50, LW51

Credit Points: 24

■ **LWN027 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. Sovereignty, property, contractually and administratively created and regulated rights and duties, the common law, the criminal law, and planning and management regimes. The international law context of the Australian system, the role of the Commonwealth and the law in Queensland.

Courses: LW50, LW51

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.

Courses: LW50, LW51

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.

Courses: LW50, LW51

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 unit. 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 texts and journals are distributed at the first class.

Courses: LW50, LW51

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.

**Courses:** LW50, LW51

**Credit Points:** 12 **Contact Hours:** 2 per week

### ■ 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.

**Courses:** LW50, LW51

**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. On completion, 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.

**Courses:** LW50, LW51

**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 unit, 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.

**Courses:** LW50, LW51

**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; criminal justice; key issues: victims of crime; juvenile, white-collar and corporate crime; privacy, Aborigines and criminal justice; the system of corrections.

**Courses:** LW50, LW51

**Credit Points:** 12 **Contact Hours:** 2 per week

### ■ LWN040 THEORIES OF JUSTICE 1

This unit compliments LWN042. However, both units stand alone and neither is a prerequisite for the other. It will provide a comparative analytical perspective from which to consider the notion of justice and related concepts. A thematic approach will be adopted to issues arising in various spheres of society to do with the environment, welfare, law, religion and women. Topics include: a consideration of the following. Epistemologies of justice; Justice in the context of post-modern Western Society; the environmental paradigm of Justice; Welfare, equality and distributive justice; the law profession and juridical culture; religion; faith doing justice; women; feminist perspectives on law and justice; comparative justice: the voice of other cultures. Includes seminars and guest lectures. Students lead one presentation.

**Courses:** LW50, LW51

**Credit Points:** 12 **Contact Hours:** 2 per week

### ■ LWN041 ECONOMIC ANALYSIS OF THE LAW

This course will consider the manner in which, and the extent to which, the principles and methodologies of economics can be applied in the analysis of statutes and the common law, in evaluating proposals for the reform of the law, and in explaining, justifying or criticising particular rules of law. Particular focus will be placed on the analysis of various contemporary issues in the law of torts and the law of contract. A previous course in economics is recommended.

**Courses:** LW50, LW51

**Credit Points:** 12 **Contact Hours:** 2 per week

### ■ LWN042 THEORIES OF JUSTICE 2

This unit compliments LWN040. However, both units stand alone and neither is a prerequisite for the other. Our chief interest in this unit will be to relate mainly contemporary legal theory to the concept of justice. This endeavour will be further contextualised where possible into students practice contexts. Areas covered will include feminism, the critical legal studies movement, positivism, utilitarianism, economic analysis and post-modernist theories.

**Courses:** LW50, LW51

**Credit Points:** 12 **Contact Hours:** 2 per week

### ■ LWN043 LAW OF COMPANY TAKEOVERS

It is the object of this unit to consider that part of the Corporation Law which has the purpose of regulating acquisition of shares which effect a change in a company's control. The coverage of company takeovers is designed to emphasize both practical perspectives in relation to the present law. The regulation of takeovers of Australian corporations.

**Courses:** LW50, LW51

**Credit Points:** 12 **Contact Hours:** 2 per week

### ■ LWN044 INSTITUTIONAL INVESTORS

The unit is an advanced corporate banking financial institution course. Institutional investors are financial institutions like premium funds, insurance com-

panies, mutual funds, savings and trust departments of banks, trust companies, securities firms, all of which invest on behalf of the public. The way they make investments is governed by statute and by common law as well as by contract. Institutional investors now are investors in the global financial and capital markets. The course would entail three parts. The first part would deal with a description of institutional investors in Australia, Asia, North America and Europe. The second part canvasses the common and statutory law regulating and governing institutional investors as well as contract law. The third part deals with special topics such as conflict of interest, exclusive self dealing and the investors role in corporate covenants especially in proxy battles, mergers and take overs as well as social investments and the breach of the prudent man rule. The unit will also familiarise students with modern portfolio theory as an alternative paradigm to the prudent man rule which considers investments in black and white terms like risky, non-risky, productive and non-productive.

**Courses:** LW50, LW51

**Credit Points:** 12 **Contact Hours:** 2 per week

#### ■ **LWN045 THE LAW & PROCEDURE RELATING TO PUBLIC & OFFICIAL CORRUPTION**

An examination of the law of procedure relevant to commission of inquiry and permanent commissioners throughout Australia.

**Courses:** LW50, LW51

**Credit Points:** 12 **Contact Hours:** 2 per week

#### ■ **LWN046 ADVANCED PLANNING**

A detailed study of town planning law with special emphasis on the following: Relevant Queensland legislation and in particular the Local Government Planning & Environment Act 1990 and the impact of the 1992 amendments thereto. The implementation, structure and operation of town planning schemes, Strategic Plans and their legal effect. The role and jurisdiction of the Planning & Environment Court, its Rules of Court, rights of appeal therefrom and the power of costs. Applications for town planning consent, rezoning and subdivision of land and relevant considerations in connection therewith. The rights and obligations of objectors, objector appeals and appeals by applicants. Reasonable and relevant conditions in certain specified case areas together with an examination of relevant case law applicable thereto. Existing and non-conforming uses.

**Courses:** LW50, LW51

**Credit Points:** 12 **Contact Hours:** 2 per week

#### ■ **LWN047 LEGAL EDUCATION**

An introduction to the main schools of thought on legal education. A review of legal education from an historical and sociopolitical perspective noting more modern developments such as the introduction of the training guarantee levy and funding policies. Consideration of the implications on legal education of new schools of contemporary thought on legal education such as law and economics (Chicago school), feminist legal theory, post modernism and critical legal studies and ethical issues in being an educator. An analysis of the learning process considering varying learning styles. Consideration of a variety of teaching styles/techniques and the appropriateness and effectiveness of each. Consideration of matching learning styles with teaching methods and the validity and effectiveness of such an approach. Consideration for the need, role and implementation of training needs analyses and goal setting. Analysing the objec-

tives and aims and how to set them with a view to designing a teaching/training program. Consideration of the means of evaluating teaching/training effectiveness. Consideration of the legal education continuum. Consideration of the needs of adult learners.

**Courses:** LW50, LW51

**Credit Points:** 12 **Contact Hours:** 2 per week

#### ■ **LWN048 ADVANCED LEGAL RESEARCH**

The unit deals with concepts, techniques, aims and methods of legal research and other research relevant to an interdisciplinary perspective. The course contains extensive training in finding source material, including the use of advanced technology in locating and organising source materials. The unit will also deal at length with the presentation and defence of research including the respective roles of researcher and supervisor, structuring research material in support of a thesis, the diagnosis and remedy of structural problems. It will also deal with the conventions of presentation, 'assessment' of research in terms of the differing criteria for refereeing and judging 'worth' and quality and ethics of research. Different research objectives will be considered for attention, for example research in government or for law reform.

**Courses:** LW50, LW51

**Credit Points:** 12 **Contact Hours:** 2 per week

#### ■ **LWN049 INTERNATIONAL ENVIRONMENTAL LAW**

The progression of international environmental law from "customary" co-existence to "conventional" co-operation will be explored through ten topics: 1) State Responsibility and the Environment: One Small Step for Humankind; 2) The Stockholm Conference on the Human Environment to the Earth Summit: On the Road to Kingdom Compel 3) The Legal Waterfront of marine Environmental Protection; 4) The International Law of Transboundary Watercourses; 5) The Emerging International Law of the Atmosphere: From Ozone to Global Warming; 6) The International Protection of Wildlife and Habitats; 7) The Control of Transboundary Movements of Hazardous Wastes; 8) The International Framework for Managing Toxic Chemicals; 9) Polar Regions and the Environment; The Arctic and Antarctic; 10) Financing Institutions, Multinational Corporations and the Environment.

**Courses:** LW50, LW51

**Credit Points:** 12 **Contact Hours:** 2 per week

#### ■ **LWN050 RESTRICTIVE TRADE PRACTICES LAW**

The unit is concerned with an analysis of those sections of the *Trade Practices Act* dealing with horizontal and vertical restraints of competition, misuse of market power, price discrimination and mergers. These substantive prohibitions are intended to regulate workable competition in markets. The early part of the course focuses on basic concepts such as markets, competition, market power and the structure, conduct, performance paradigm. The main part of the course is concerned with analysis the elements of each of the substantive prohibitions contained in Part IV of the Act and the way in which they may apply to various agreements and business practices. After considering the substantive prohibitions, the final part of the unit is concerned with remedies and defences and the role played by the Trade Practices Commission.

**Courses:** LW50, LW51

**Credit Points:** 12 **Contact Hours:** 2 per week

### ■ LWN051 CONSUMER PROTECTION & PRODUCT LIABILITY

This unit is concerned with the statutory and common law actions which are available to protect consumers from misleading or deceptive conduct and the statutory and common law actions available when loss or damage is suffered as a result of defective products.  
**Courses:** LW50, LW51  
**Credit Points:** 12      **Contact Hours:** 2 per week

### ■ LWN052 LITIGATION

Contains three modules: civil procedure, evidence and forensic skills. The civil procedure module seeks to address current issues which present interest of difficulty in relation to the rules of practice and procedure for civil cases. The evidence module seeks to address current issues which present interest or difficulty in relation to the rules of admissibility of evidence in Queensland and Commonwealth courts. The forensic module seeks to address elected attributes which are considered necessary adjuncts to an appreciation of the substantive rules governing procedure and evidence.  
**Courses:** LW50, LW51  
**Credit Points:** 12      **Contact Hours:** 2 per week

### ■ LWN100 HONOURS DISSERTATION

A dissertation by students enrolled in the Master of Laws by Coursework 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.  
**Courses:** LW50, LW51      **Credit Points:** 48

### ■ LWS001 MEDICINE & THE LAW

This unit 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 and court decisions.  
**Courses:** LS85, NS48, PU48  
**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).  
**Courses:** NS40, NS48  
**Credit Points:** 8      **Contact Hours:** 3 per week

### ■ LWS006 HEALTH ETHICS & THE LAW

This unit enables students to develop an awareness of the legal issues associated with the matter of public health and an appreciation of the legal and ethical implications of the work done by health care professionals in this area. Topics include: introduction to the Australian legal system; tort law and its impact upon the public health system; workplace health and safety legislation; medical records and confidentiality; criminal law and the health care profession; transplan-

tation of organs and tissues; complaints against hospitals and health care professionals.

**Courses:** HL85, NS48

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ MAA251 STATISTICS & DATA PROCESSING

A basic unit in statistics, including statistical terminology and organisation of data, elementary probability, binomial and normal distribution, sampling theory, regression and correlation.

**Course:** ME23

**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.

**Course:** SC30

**Credit Points:** 12      **Contact Hours:** 4 per week

### ■ MAB151 QUANTITATIVE TECHNIQUES

A basic mathematics unit with emphasis on the interpretation of data and the application of numerical techniques.

**Course:** PH38

**Credit Points:** 4      **Contact Hours:** 2 per week

### ■ MAB152 QUANTITATIVE METHODS

Organisational, analysis and interpretation of data; practical problems in basic calculus techniques and numerical methods; probability distributions; sampling; estimation; regression and correlation.

**Courses:** PU42, PU44, PU45

**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.

**Courses:** BS50, IS08, IS43, IT20

**Credit Points:** 12      **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 and solutions to these models.

**Course:** BS50, IF31

**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; computer programming.

**Course:** BN30

**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; computer programming.  
Course: BN30

Credit Points: 6 Contact Hours: 3 per week

### ■ MAB183 MATHEMATICS 1

Computational mathematics; vector algebra - addition and subtraction of vectors, components and projections, modulus, unit vectors and scalar products; linear algebra - matrices; complex numbers - definition - cartesian form, addition/subtraction, multiplication, modulus and argument, Argand diagram, polar and exponential forms; differential calculus - standard functions, product and quotient rule, chain rule, logarithmic differentiation.

Course: ME35

Credit Points: 8 Contact Hours: 3 per week

### ■ MAB184 MATHEMATICS 2

Computational mathematics - errors/accuracy, use of mathematical support software (DERIVE); vector algebra - vector products, scalar and vector triple products; differential calculus - hyperbolic, inverse and functions of variables; total differential; integral calculus - indefinite integration, standard forms, integration by parts, integration by substitution.

Course: ME35

Credit Points: 8 Contact Hours: 3 per week

### ■ MAB185 INTRODUCTION TO STATISTICS

Data and its presentation, qualitative reporting of graphical presentations, distributions - properties and parameters, normal probability plots; sampling - correlated versus independent observations, mean and other statistics, normal case; confidence intervals for means/proportions and differences of means/proportions, pairing, tolerance limits, introduction to quality and SPC, variance; hypothesis testing, tests for means/proportions; basic concepts of experimentation, 1-way ANOVA; introduction to regression; introduction to product and system reliability.

Course: ME35

Credit Points: 8 Contact Hours: 3 per week

### ■ MAB186 MATHEMATICS 3

Development of mathematics covered in MAB184; computational mathematics - numerical integration, solution of non-linear equations; differential equations - first order linear equations, second order linear equations with constant coefficients; integral calculus - definite integration, multiple integrals.

Course: ME35

Prerequisite: MAB184

Credit Points: 8 Contact Hours: 3 per week

### ■ MAB187 ENGINEERING MATHEMATICS 1A

See MAB193.

Courses: IF23, IF53

Credit Points: 6 Contact Hours: 3 per week

### ■ MAB188 ENGINEERING MATHEMATICS 1B

See MAB193.

Courses: IF23, IF53

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, multiple integrals; gravity and moment of inertia.

Courses: EE42, EE43, EE44, ME45

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.

Course: BN30

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.

Course: BN30

Prerequisite: MAB181

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.

Courses: IF52, SV34

Credit Points: 12 Contact Hours: 6 per week

### ■ MAB212 MATHEMATICS 1

Vectors, algebra; 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, L'Hopital's rule. Definite and indefinite integrals, fundamental theorem of calculus. Integration by substitution and by parts. Improper integrals. Polar coordinates.

Courses: CH32, ED50, SC30

Credit Points: 12 Contact Hours: 4 per week

### ■ MAB222 MATHEMATICS 2

Areas, volumes, lengths of curves and surface areas. Simple improper integrals. Rotation of axes in the plane. Differentiation of vectors, simple kinematic applications. Series expansions of functions by Taylor and Maclaurin series; ratio test; approximations. Complex numbers; modulus, Argand diagram, exponential form; De Moivre's theorem; applications. Ordinary differential equations. First order: variables separable; exact linear. Second order: linear homogeneous differential equations with constant coefficients. Partial differentiation; geometrical interpretation, partial derivatives of higher order.

Courses: ED50, SC30

Prerequisite: MAB212

Credit Points: 12 Contact Hours: 4 per week

### ■ MAB232 DISCRETE MATHEMATICS

Combinatorics; logic; set theory; axiomatic systems; modular arithmetic; rings, integral domains, fields; finite groups; number theory; difference equations.

Courses: ED50, SC30

Co-requisite: MAB222

Credit Points: 12 Contact Hours: 4 per week

### ■ MAB237 STATISTICS

This unit shows students how to collect statistical data from surveys and experiments, how to investigate and analyse the data and how to draw valid conclusions.

Students study real data via computer packages and are introduced to estimation, hypothesis testing, regression and analysis of variance.

**Courses:** CH32, ED50, SC30

**Credit Points:** 12 **Contact Hours:** 4 per week

### ■ MAB251 MATHEMATICS I

Data handling; determinants and matrices; differentiation with applications; partial differentiation; integral calculus with applications; numerical methods.

**Course:** OP42

**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.

**Course:** OP42 **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.

**Course:** OP42 **Prerequisite:** MAB252

**Credit Points:** 4 **Contact Hours:** 2 per week

### ■ MAB272 RESEARCH METHODS

Students in the information management and information systems fields should have knowledge of a variety of techniques associated with collecting and analysing data, be capable of critical interpretation of survey research and be able to use data reduction techniques themselves. In addition to an introduction to descriptive statistics and statistical inference, this unit introduces historical and theoretical approaches and compares rationalisation with experimentation.

**Course:** IT20

**Prerequisite:** Completion of at least 60 credit points from the Information Management or Information Systems majors in IT20.

**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ MAB297 MATHEMATICS FOR CONSTRUCTION

Data handling and basic algebra, geometry, trigonometry, vector techniques; introduction to financial mathematics, probability and statistics.

**Course:** CN31

**Credit Points:** 4 **Contact Hours:** 2 per week

### ■ MAB298 MATHEMATICS & STATISTICS

See MAB297.

**Course:** CN32

**Credit Points:** 4 **Contact Hours:** 2 per week

### ■ MAB301 CALCULUS & ANALYSIS A

Real value functions; differentiation; introduction to partial differentiation; integration.

**Courses:** MA34, SC30

**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.

**Courses:** MA34, SC30 **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.

**Courses:** MA34, SC30

**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.

**Courses:** ED50, MA34, SC30

**Co-requisites:** MAB301 or MAB212

**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; introduction to basic modelling techniques.

**Courses:** ED50, MA34, SC30

**Credit Points:** 12 **Contact Hours:** 4 per week

### ■ MAB347 STATISTICS 1A

Collection and representation of data, parameters and statistics; sampling; sample mean and variance; statistical estimation and tests of hypotheses based on the normal, t, F and chi-square distributions; control charts; linear regression; introduction to experimental design and ANOVA.

**Courses:** MA34, SC30

**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; Q-a plots, correlation, multiple regression; lower; goodness-of-fit; introduction to non-parametric tests.

**Courses:** ED50, MA34, SC30

**Prerequisite:** MAB347 or credit in MAB237

**Co-requisite:** MAB301 or MAB212

**Credit Points:** 12 **Contact Hours:** 4 per week

### ■ MAB422 TOPICS IN MATHEMATICS

Topics in geometry, recreational mathematics, and the history of mathematics.

**Courses:** ED50, SC30

**Prerequisite:** MAB222

**Credit Points:** 12 **Contact Hours:** 4 per week

### ■ MAB432 MATHEMATICS 3

Laplace transforms; ordinary differential equations of first and higher order; multivariable calculus.

**Course:** SC30

**Prerequisite:** MAB222

**Credit Points:** 12 **Contact Hours:** 4 per week

### ■ MAB452 MATHEMATICS 4

Partial differential equations. Complex analysis; Cauchy-integral theorem, Laurent-series; residue theorem. Fourier series and Fourier transforms. Vector analysis, Green's theorems, Stokes' theorem, the Divergence theorem. Applications to physics.

**Course:** SC30

**Prerequisite:** MAB432

**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.

**Courses:** CE42, EE43, EE44, IF23, IF53, ME45

**Prerequisite:** MAB193

**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ MAB495 SURVEY MATHEMATICS 2

Calculus. Matrix algebra. Spherical trigonometry. Three-dimensional coordinate geometry.

**Courses:** IF52, SV34 **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, hypothesis, regression, correlation.

**Courses:** IF52, SV34 **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.

**Courses:** MA34, SC30

**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; problems with subsidiary conditions.

**Courses:** MA34, SC30

**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; partial differential equations; mathematical modelling, differential equations.

**Courses:** MA34, SC30

**Prerequisite:** MAB303, MAB304

**Credit Points:** 12 **Contact Hours:** 4 per week

### ■ MAB618 NUMERICAL ANALYSIS 1

Linear equations; numerical solution of a single non-linear equation; interpolation; quadrature; numerical solution of a single first order differential equation.

**Courses:** MA34, SC30 **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).

**Courses:** MA34, SC30

**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.

**Courses:** MA34, SC30 **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.

**Courses:** ED50, MA34, SC30

**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.

**Courses:** MA34, SC30 **Prerequisite:** MAB304

**Credit Points:** 12 **Contact Hours:** 4 per week

### ■ MAB637 OPERATIONS RESEARCH 1A

Linear programming; replacement, maintenance and reliability; project scheduling techniques; simulation.

**Courses:** ED50, MA34, SC30

**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.

**Courses:** MA34, SC30

**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.

**Courses:** MA34, SC30

**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 iid cases; transformations; sampling distributions; sampling from finite populations; introductory Markov chains; time series and auto correlation; convergence ideas; order statistics.

**Courses:** MA34, SC30 **Co-requisite:** MAB303

**Prerequisite:** MAB348, MAB301

**Credit Points:** 12 **Contact Hours:** 4 per week

### ■ MAB648 STATISTICS 2B

Experimental design and linear models; least squares; replication, interaction; factors, levels, factorial designs; missing values, data quality; regression; residuals; use of covariates; using time diagnostics; transformations; non-parametric techniques.

**Courses:** MA34, SC30 **Prerequisite:** MAB348

**Credit Points:** 8 **Contact Hours:** 3 per week

### ■ MAB795 SURVEY MATHEMATICS 3

Transformation in three dimensions: central projection, the near parallel 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.

**Courses:** IF52, SV34

**Prerequisite:** MAB495

**Credit Points:** 6 **Contact Hours:** 3 per week

### ■ MAB893 ENGINEERING MATHEMATICS 3

Data analysis in engineering contexts with emphasis on real data and use of computer packages; estimation, testing, SPC, regression, ANOVA, reliability.

**Courses:** CE42, EE43, EE44, IF23, ME45

**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; introduction to numerical techniques; complex variables, Cauchy-Riemann equations, conformal mapping.  
Courses: EE43, EE44, IF23  
Prerequisite: MAB493

Credit Points: 6 Contact Hours: 3 per week

**■ MAB895 INTRODUCTION TO CRYPTOLOGY**

Number theory; finitefield theory; information theory; classical ciphers; key ciphers; cryptology.

Courses: EE44, IF23 Prerequisite: MAB493  
Credit Points: 7 Contact Hours: 4 per week

**■ MAB896 CONTROL ERROR TECHNIQUES & DATA COMPRESSION**

Data compression techniques; introduction to block codes; convolutional codes; cyclic codes and Reed-Solomon codes; coding techniques and applications.

Courses: EE44, IF23 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.

Courses: MA34, SC30, SC60  
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 auto-correlation; non linear LSE; diagnostics.

Courses: MA34, SC30  
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, likelihood, deviance.

Courses: MA34, SC30 Prerequisite: MAB648  
Credit Points: 12 Contact Hours: 4 per week

**■ MAB912 FLUID DYNAMICS**

Mathematical models of fluid motion, equations of motion and some exact solutions. Dimensional analysis and similitude, incompressible potential flow, Reynolds Numbers, boundary layer equations.

Course: SC30 Prerequisite: MAB602  
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 eigen-systems by the QR algorithm, emphasis on symmetric matrices. Stability analyses for IVPs, types of instability, inherent and induced, partial instability.

Courses: MA34, SC30, SC60  
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 cryptology.

Courses: IF23, MA34, SC30, SC60  
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.

Courses: MA34, SC30 Prerequisite: MAB638  
Credit Points: 12 Contact Hours: 4 per week

**■ MAB928 OPERATIONS RESEARCH 2B**

Simulation; queueing theory; decision analysis; implementation in operations research.

Courses: MA34, SC30 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.

Courses: MA34, SC30, SC60  
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.

Courses: MA34, SC30  
Prerequisites: MAB601, MAB612  
Credit Points: 12 Contact Hours: 4 per week

**■ MAB942 OPTIMISATION METHODS**

Analytic calculation of maxima and minima in functions; constrained optimisation using Lagrange multiplier and penalty techniques; quadratic and convex programming; one dimensional search techniques; direct search techniques; gradient methods; least squares; global optimisation strategies.

Courses: MA34, SC30  
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.

Courses: MA34, SC30  
Prerequisite: Successful completion of at least 192 credit points including at least two units 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 num-

bers; central limit theorems. Markov processes: birth and death, queues; epidemics; inference. Point processes: marked point processes; filtered processes; inference, simulation. Branch process.

**Courses:** MA34, SC60, SC30

**Prerequisite:** MAB647

**Credit Points:** 12      **Contact Hours:** 4 per week

### ■ MAB971 ADVANCED MATHEMATICS OF FINANCE

Background to investments, asset classes; risk theory; mathematical theories of finance; assets versus liabilities; investment performance measurement.

**Courses:** MA34, SC30, SC60

**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; coding techniques and applications.

**Courses:** MA34, SC30, SC60

**Prerequisite:** MAB920

**Credit Points:** 12      **Contact Hours:** 4 per week

### ■ MAB973 PARTIAL DIFFERENTIAL EQUATIONS

Derivation and solution of first order partial differential equations. Derivation and classification of second order partial differential equations: the wave equation, the heat conduction equation, the equation of a bending beam, equations for fluid flow; boundary conditions. Second order equations: characteristics, separation of variables, integral transforms.

**Courses:** MA34, SC30, SC60

**Prerequisites:** MAB602, MAB612

**Credit Points:** 12      **Contact Hours:** 4 per week

### ■ MAB974 SAMPLING & SURVEY TECHNIQUES

Random sampling; estimates; design of questionnaires; data quality and errors in surveys; systematic, cluster and double sampling plans; imputation techniques; alternatives to household surveys.

**Courses:** MA34, SC30, SC60

**Prerequisites:** MAB647, MAB648

**Credit Points:** 12      **Contact Hours:** 4 per week

### ■ MAB975 ORDINARY DIFFERENTIAL EQUATIONS & CHAOS

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.

**Courses:** MA34, SC30, SC60

**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's proportional hazards model; competing hazards.

**Courses:** SC30, SC60

**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.

**Course:** SC60

**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, two dimensional filtering and image enhancement. Image compression.

**Course:** SC60      **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.

**Courses:** MA34, SC60

**Prerequisites:** MAB601, MAB907

**Credit Points:** 12      **Contact Hours:** 4 per week

### ■ MAB980 STOCHASTIC PROCESSES & APPLICATIONS

Gaussian processes; Brownian motion; diffusions; stochastic equations; martingale; random walks; central limit theorems; epidemic models; queueing models; stochastic compartment models; extreme value theory for stochastic processes.

**Course:** SC60

**Prerequisites:** MAB970 or (MAB906, MAB929)

**Credit Points:** 12      **Contact Hours:** 4 per week

### ■ MAB981 APPLIED STATISTICAL INFERENCE & EXPERIMENTATION

Normal error models: multiple linear regression; diagnostics; prediction. Non-normal error models: likelihood theory; quasi likelihood; diagnostics. Modern data analysis techniques: smoothers.

**Course:** SC60

**Prerequisites:** MAB630, MAB907, MAB908

**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: methods of protocol including zero knowledge systems. Current topics in cryptology: current developments and trends in cryptology.

**Courses:** IF23, SC60

**Prerequisite:** MAB920 or (MAB895 + GPA 5)

**Credit Points:** 12      **Contact Hours:** 4 per week

### ■ MAB983 FINITE MATHEMATICS

Topics in finite mathematics.

**Course:** SC60

**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.

Course: SC60

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.

Course: SC60

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.

Course: SC60

Co-requisite: MAB985

Prerequisites: MAB973, MAB601, MAB913

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.

Course: SC60 Prerequisites: MAB601, MAB612

Credit Points: 12 Contact Hours: 4 per week

# ■ MAB989 PROJECT

Project and thesis component of Honours course (SC60).

Course: SC60

Prerequisite: Approved Honours program.

Credit Points: 36

# MAN009 EXPERIMENTAL DESIGN & STATISTICAL ANALYSIS FOR RESEARCH

See MAN007.

Course: HL88

Credit Points: 12 Contact Hours: 3 per week

# MAN120 QUANTITATIVE SYSTEMS ANALYSIS

Prepares students to use quantitative models in the solution of problems for quality systems. Module includes inventory systems, production planning and scheduling, networks and optimal decision theory.

Course: BS86

Credit Points: 6 Contact Hours: 3 per week

# MAN210 DESIGNED EXPERIMENTS FOR QUALITY IMPROVEMENTS

The principles underlying the design of experiments; a practical approach explains the procedures used, with emphasis on the use of robust techniques for industrial experimentation and explanatory studies.

Course: BS86

Credit Points: 6 Contact Hours: 3 per week

# ■ MAP111 STATISTICAL METHODS IN QUALITY

Describing variation, frequency distribution, histogram, estimation of parameters. 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, hypothesis testing. Type 1 and 2 errors.

Course: BS77

Credit Points: 6 Contact Hours: 3 per week

# ■ MAP120 QUANTITATIVE SYSTEMS ANALYSIS

Prepares students to use quantitative models in the solution of problems for quality systems. Models include inventory systems, production planning and scheduling, networks and optimal decision theory.

Course: BS86

Credit Points: 6 Contact Hours: 3 per week

# ■ MAP121 STATISTICAL PROCESS CONTROL

Concepts and preliminary considerations. Control chart procedures for variables, S and R charts, pattern analysis and interpretation. Process capability study, natural tolerances, capability ratio, modified control charts. Attribute control charts, construction and interpretation of P, C and U charts. Cusum techniques for continuous data, scope and principles, procedure and interpretation, testing techniques – V mask, decision interval. Cusum applications to discrete data. SPC computer software.

Course: BS77

Credit Points: 6 Contact Hours: 3 per week

# ■ MAP211 SAMPLING PROCEDURES

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-I, etc.). Sampling by variables, plans and procedures. AS2490, terminology, definitions, inspection rules.

Course: BS77

Credit Points: 6 Contact Hours: 3 per week

# ■ MAP221 QUALITY PROBLEM SOLVING TECHNIQUES

Collection of data and use of check sheets. Histograms as a diagnostic tool. Pareto diagram, stratified data, use of weighted factors; Ishikawa chart, dispersion analysis and process classification type. Flow charts. Quality circles. 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.

Course: BS77

Credit Points: 8 Contact Hours: 2 per week

# ■ MAS090 MATHEMATICS

This intensive unit 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; applications from elementary statics, kinematics, dynamics and statistics. The treatment assumes some initial knowledge of basic algebra, such as manipulation of indices and factorisation.

tion, and elementary trigonometry at a level equivalent to Year 10 Advanced Mathematics.

**Course:** BN10

**Credit Points:** 6 per semester

**Contact Hours:** 3 per week

### ■ MAS092 MATHEMATICS A

A mathematical background for those who wish to undertake a tertiary course in computing. Topics include: algebra, matrices, analytical geometry, trigonometry, propositions and truth tables, set theory. 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.

**Course:** BN10

**Credit Points:** 6

**Contact Hours:** 3 per week

### ■ MDB228 SCIENCE EDUCATION

Applies psychological, developmental and sociological approaches to science curriculum. Development of an understanding of process 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.

**Course:** ED41

**Credit Points:** 8

**Prerequisite:** MDB221

**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.

**Course:** ED41

**Credit Points:** 12

**Prerequisite:** MDB222

**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.

**Course:** ED41

**Credit Points:** 8

**Prerequisite:** MDB220

**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.

**Course:** ED41

**Credit Points:** 8

**Contact Hours:** 3 per week

### ■ MDB262 HISTORY OF MATHEMATICS

Philosophy and history of mathematical thinking: role of thinking in mathematics and vice versa, 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: role of intuition, logic, real world applications and formality. Applications to teaching.

**Course:** ED41

**Credit Points:** 12

**Prerequisite:** MDB260

**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 mathematics, statistical and computer applications, game and queuing theory. Modelling in mathematics instruction: extend and enrich teaching.

**Courses:** ED41, ED51

**Credit Points:** 12

**Prerequisite:** MDB262

**Contact Hours:** 3 per week

### ■ MDB264 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.

**Course:** ED41

**Credit Points:** 12

**Prerequisite:** MDB261

**Contact Hours:** 3 per week

### ■ MDB265 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.

**Courses:** ED41, ED51

**Credit Points:** 12

**Prerequisite:** MDB264

**Contact Hours:** 3 per week

### ■ MDB270 COMPUTER EDUCATION

Exploration of uses of computer-based technology. Consideration of educational issues such as: curriculum planning and implementation considerations; criteria for evaluation of computer hardware and software; and policies for computer use in schools.

**Course:** ED41

**Credit Points:** 8

**Contact Hours:** 3 per week

### ■ MDB300 TEACHING IN THE INFORMATION AGE

This subject explores the impact of information technology on education. It examines the concept of an information society, it explores how what is defined as knowledge is contested and changed by information technology and it develops strategies for learning and teaching using information technology. Practical skills using computer hardware and software communication technology and multimedia will be developed with a view to appropriate implementation within the curriculum.

**Courses:** ED50, ED51, ED52

**Credit Points:** 12

**Contact Hours:** 3 per week

### ■ MDB301 HISTORY OF MATHEMATICS

Different methods that have been used to record numbers; early view of number (fact and fantasy); numeration systems used today; early methods of calculation from ancient times, to Napier's logarithms to the

modern computer; contributions of mathematicians including the Greeks, Fibonacci, Pascal, Euler, Gauss, Galois, Fermat, Turing; major historical developments in content areas of geometry, algebra, probability and applications involving measurement.

**Courses:** ED51, ED52

**Prerequisite:** First three semesters of the course

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ MDB302 MATHEMATICS FOUNDATIONS

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.

**Courses:** ED51, ED52

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ MDB303 SCIENCE FOUNDATIONS

The role of particular psychological, developmental and sociological approaches which play a significant role in science curriculum and development. The 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.

**Courses:** ED51, ED52

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ MDB325 BIOLOGY CURRICULUM STUDIES I

This subject assists students to develop those competencies needed for planning and teaching in selected curriculum areas. Content includes: the nature of the curriculum area/discipline and its role and contribution as a medium for education; introduction to relevant syllabuses and curriculum documents; lesson and curriculum unit planning activities; and teaching strategies designed to promote a range of learning experiences in selected curriculum areas.

**Course:** ED50

**Prerequisite:** Normally the completion of 48 credit points in each relevant discipline area.

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ MDB326 BIOLOGY CURRICULUM STUDIES 2

This subject extends the principles of professional practice established in Curriculum Studies 1. Content includes: curriculum development within the context of contemporary policies, frameworks and agencies; general principles of measurement, assessment and evaluation; teaching and learning strategies; and issues and directions in curriculum development.

**Course:** ED50

**Prerequisite:** MDB325

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ MDB327 CHEMISTRY CURRICULUM STUDIES I

This subject assists students to develop those competencies needed for planning and teaching in selected curriculum areas. Content includes: the nature of the curriculum area/discipline and its role and contribution as a medium for education; introduction to relevant syllabuses and curriculum documents; lesson and curriculum unit planning activities; and teaching strategies designed to promote a range of learning experiences in selected curriculum areas.

**Course:** ED50

**Prerequisite:** Normally the completion of 48 credit points in each relevant discipline area.

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ MDB328 CHEMISTRY CURRICULUM STUDIES 2

This subject extends the principles of professional practice established in Curriculum Studies 1. Content includes: curriculum development within the context of contemporary policies, frameworks and agencies; general principles of measurement, assessment and evaluation; teaching and learning strategies; and issues and directions in curriculum development.

**Course:** ED50

**Prerequisite:** MDB327

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ MDB329 COMPUTING CURRICULUM STUDIES I

This subject assists students to develop those competencies needed for planning and teaching in selected curriculum areas. Content includes: the nature of the curriculum area/discipline and its role and contribution as a medium for education; introduction to relevant syllabuses and curriculum documents; lesson and curriculum unit planning activities; and teaching strategies designed to promote a range of learning experiences in selected curriculum areas.

**Course:** ED50

**Prerequisite:** Normally the completion of 48 credit points in each relevant discipline area.

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ MDB330 COMPUTING CURRICULUM STUDIES 2

This subject extends the principles of professional practice established in Curriculum Studies 1. Content includes: curriculum development within the context of contemporary policies, frameworks and agencies; general principles of measurement, assessment and evaluation; teaching and learning strategies; and issues and directions in curriculum development.

**Course:** ED50

**Prerequisite:** MDB329

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ MDB331 EARTH SCIENCE CURRICULUM STUDIES I

This subject assists students to develop those competencies needed for planning and teaching in selected curriculum areas. Content includes: the nature of the curriculum area/discipline and its role and contribution as a medium for education; introduction to relevant syllabuses and curriculum documents; lesson and curriculum unit planning activities; and teaching strategies designed to promote a range of learning experiences in selected curriculum areas.

**Course:** ED50

**Prerequisite:** Normally the completion of 48 credit points in each relevant discipline area.

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ MDB332 EARTH SCIENCE CURRICULUM STUDIES 2

This subject extends the principles of professional practice established in Curriculum Studies 1. Content includes: curriculum development within the context of contemporary policies, frameworks and agencies; general principles of measurement, assessment and evaluation; teaching and learning strategies; and issues and directions in curriculum development.

**Course:** ED50

**Prerequisite:** MDB331

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ MDB333 MATHEMATICS CURRICULUM STUDIES I

This subject assists students to develop those competencies needed for planning and teaching in selected curriculum areas. Content includes: the nature of the curriculum area/discipline and its role and contribu-

tion as a medium for education; introduction to relevant syllabuses and curriculum documents; lesson and curriculum unit planning activities; and teaching strategies designed to promote a range of learning experiences in selected curriculum areas.

**Course:** ED50

**Prerequisite:** Normally the completion of 48 credit points in each relevant discipline area.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ **MDB334 MATHEMATICS CURRICULUM STUDIES 2**

This subject extends the principles of professional practice established in Curriculum Studies 1. Content includes: curriculum development within the context of contemporary policies, frameworks and agencies; general principles of measurement, assessment and evaluation; teaching and learning strategies; and issues and directions in curriculum development.

**Course:** ED50

**Prerequisite:** MDB333

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ **MDB335 PHYSICS CURRICULUM STUDIES 1**

This subject assists students to develop those competencies needed for planning and teaching in selected curriculum areas. Content includes: the nature of the curriculum area/discipline and its role and contribution as a medium for education; introduction to relevant syllabuses and curriculum documents; lesson and curriculum unit planning activities; and teaching strategies designed to promote a range of learning experiences in selected curriculum areas.

**Course:** ED50

**Prerequisite:** Normally the completion of 48 credit points in each relevant discipline area.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ **MDB336 PHYSICS CURRICULUM STUDIES 2**

This subject extends the principles of professional practice established in Curriculum Studies 1. Content includes: curriculum development within the context of contemporary policies, frameworks and agencies; general principles of measurement, assessment and evaluation; teaching and learning strategies; and issues and directions in curriculum development.

**Course:** ED50

**Prerequisite:** MDB335

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ **MDB337 SCIENCE CURRICULUM STUDIES 1**

This subject assists students to develop those competencies needed for planning and teaching in selected curriculum areas. Content includes: the nature of the curriculum area/discipline and its role and contribution as a medium for education; introduction to relevant syllabuses and curriculum documents; lesson and curriculum unit planning activities; and teaching strategies designed to promote a range of learning experiences in selected curriculum areas.

**Course:** ED50

**Prerequisite:** Normally the completion of 48 credit points in each relevant discipline area.

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ **MDB338 SCIENCE CURRICULUM STUDIES 2**

This subject extends the principles of professional practice established in Curriculum Studies 1. Content includes: curriculum development within the context of contemporary policies, frameworks and agencies; general principles of measurement, assessment and

evaluation; teaching and learning strategies; and issues and directions in curriculum development.

**Course:** ED50

**Prerequisite:** MDB329

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ **MDB339 MATHEMATICS EDUCATION**

Key concepts and skills in the domains of percents, rate, ratio, chance and data, prealgebra and geometry will be studied. Focus on developing appropriate teaching episodes within these domains. Special emphasis on the teacher as 'sense-maker'.

**Course:** ED51

**Prerequisite:** MDB345

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ **MDB340 MATHEMATICS & TECHNOLOGY EDUCATION**

This subject builds on the understandings developed in Mathematics Foundations and Mathematics Education. In particular, it explores issues concerned with the teaching of measurement and mathematical problem solving. This subject also investigates how information technology can be used to facilitate the development of high-level learning skills in mathematics and other areas in the primary school.

**Course:** ED51      **Prerequisites:** MDB339, MDB345

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ **MDB341 SCIENCE EDUCATION**

The role of particular psychological, developmental and sociological approaches which play a significant role in science curriculum and development. The 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.

**Course:** ED51

**Prerequisite:** MDB346

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ **MDB342 COMPUTERS IN THE SCHOOL CURRICULUM**

This subject is designed to provide teachers with a framework for investigating the present and future influence of computers on curriculum development in educational institutions.

**Course:** ED51

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ **MDB343 DIAGNOSIS & REMEDIATION IN MATHEMATICS**

Overview of numerical and conceptual learning difficulties in mathematics; learning experiences in various areas of mathematics, utility of mathematics in real life situations; examination of mathematics in other curriculum areas; learning experiences in the integration of mathematical topics; use of hand-held calculator and the computer as aids to conceptual development and as practical tools; error analysis and diagnostic inventories; remedial strategies.

**Course:** ED51

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ **MDB344 INITIATIVES IN SCIENCE**

In this subject students will have the opportunity to explore alternative practices in science education particularly through the development of research based project work for children, the extended excursion or field trip and involvement in community sponsored and/or related science activities and events.

**Course:** ED51

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ MDB345 SOFTWARE DEVELOPMENT FOR EDUCATIONAL CONTEXTS**

Algorithmic thinking and its implementation is a major component within the Information processing and Technology syllabus now implemented in secondary schools. Prospective teachers of courses such as these require a sound foundation in the design and development of software along with the use of modern abstract procedural, data and object handling representations. Furthermore, the design principles developed in this subject mirror general problem solving strategies that have been found to be particularly effective in many educational areas. Software design and development is closely bound to particular problems contexts. This subject is based on the design of educational software because this area is relevant to the students concerned and because there is a clear demand for such software. Students in this subject will employ a range of powerful programming techniques and structures in the development of educational computer software.

**Course:** ED50 **Prerequisite:** CSB860  
**Credit Points:** 12 **Contact Hours:** 3 per week

**■ MDB347 EXCURSIONS IN NUMBER**

An invitation to explore some interesting byways off the high road of mathematics. Discover some intriguing diversions to add quality to your lessons.

**Course:** ED51  
**Credit Points:** 12 **Contact Hours:** 3 per week

**■ MDB348 HISTORY OF MATHEMATICS**

Methods to record numbers; early view of number (fact and fantasy); numeration systems used today; early methods of calculation from ancient times, to Napier's logarithms to the modern computer; contributions of mathematicians including the Greeks, Fibonacci, Pascal, Euler, Gauss, Galois, Fermat, Turing; major historical developments in content areas of geometry, algebra, probability and modern day applications involving measurement.

**Courses:** ED51, ED52  
**Prerequisite:** First three semesters of the course  
**Credit Points:** 12 **Contact Hours:** 3 per week

**■ MDB349 MATHEMATICAL THINKING**

The concept of thinking and intelligence; the nature of mathematical thinking during the first half of this century; modern ideas on the nature of mathematical thinking; the thinking skills movement and programs designed to foster thinking; analysis of children's thinking in solving mathematical problems; analysis of students' 'everyday cognition' together with their thinking in mathematical situations.

**Course:** ED51  
**Credit Points:** 12 **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.

**Course:** ED50 **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.

**Course:** ED50  
**Prerequisites:** MDB350, MDB351, CUB302  
**Credit Points:** 8 **Contact Hours:** 3 per week

**■ MDB354 CHEMISTRY CURRICULUM & TEACHING STUDIES 2**

See MDB351.  
**Course:** ED50 **Prerequisite:** MDB353  
**Co-requisites:** CUB302, EDB302  
**Credit Points:** 12 **Contact Hours:** 3 per week

**■ MDB355 CHEMISTRY CURRICULUM & TEACHING STUDIES 3**

See MDB352.  
**Course:** ED50  
**Prerequisites:** SBB353, SBB354, CUB302  
**Credit Points:** 8 **Contact Hours:** 3 per week

**■ MDB357 COMPUTING CURRICULUM & TEACHING STUDIES 2**

See MDB351.  
**Course:** ED50 **Prerequisite:** MDB356  
**Co-requisites:** CUB302, EDB302  
**Credit Points:** 12 **Contact Hours:** 3 per week

**■ MDB358 COMPUTING CURRICULUM & TEACHING STUDIES 3**

See MDB352.  
**Course:** ED50  
**Prerequisites:** MDB356, MDB357, CUB302  
**Credit Points:** 8 **Contact Hours:** 3 per week

**■ MDB360 EARTH SCIENCE CURRICULUM & TEACHING STUDIES 2**

See MDB351.  
**Course:** ED50 **Prerequisite:** MDB359  
**Co-requisites:** CUB302, EDB302  
**Credit Points:** 12 **Contact Hours:** 3 per week

**■ MDB361 EARTH SCIENCE CURRICULUM & TEACHING STUDIES 3**

See MDB352.  
**Course:** ED50  
**Prerequisites:** MDB359, MDB360, CUB302  
**Credit Points:** 8 **Contact Hours:** 3 per week

**■ MDB363 MATHEMATICS CURRICULUM & TEACHING STUDIES 2**

See MDB351.  
**Course:** ED50 **Prerequisite:** MDB362  
**Co-requisites:** CUB302, EDB302  
**Credit Points:** 12 **Contact Hours:** 3 per week

**■ MDB364 MATHEMATICS CURRICULUM & TEACHING STUDIES 3**

See MDB361.  
**Course:** ED50  
**Prerequisites:** MDB362, MDB363, CUB302  
**Credit Points:** 8 **Contact Hours:** 3 per week

**■ MDB366 PHYSICS CURRICULUM & TEACHING STUDIES 2**

See MDB363.  
**Course:** ED50 **Prerequisite:** MDB365  
**Co-requisites:** CUB302, EDB302  
**Credit Points:** 12 **Contact Hours:** 3 per week

**■ MDB367 PHYSICS CURRICULUM & TEACHING STUDIES 3**

See MDB361.  
**Course:** ED50  
**Prerequisites:** MDB365, MDB366, CUB302  
**Credit Points:** 8 **Contact Hours:** 3 per week

■ **MDB369 SCIENCE CURRICULUM & TEACHING STUDIES 2**

See MDB361.

Course: ED50

Prerequisite: MDB368

Co-requisites: CUB302, EDB302

Credit Points: 12 Contact Hours: 3 per week

■ **MDB370 SCIENCE CURRICULUM & TEACHING STUDIES 3**

See MDB361.

Course: ED50

Prerequisites: MDB368, MDB369, CUB302

Credit Points: 8 Contact Hours: 3 per week

■ **MDB375 COMPUTING TOOLS FOR EDUCATORS**

Graduates of this course are expected to be able to use technology confidently and competently for personal and professional teaching tasks. This subject will allow students to gain technological skills and understandings while investigating applications of these technologies in a teaching context. Students will gain experience in a wide range of applications including the use of writing and publishing software, graphics design software, computer managed learning development tools, numerical software tools, personal and project management tools, communications technologies and computer peripherals used in the production of computer generated materials.

Course: ED50

Credit Points: 12 Contact Hours: 3 per week

■ **MDB377 PROJECT PLANNING & IMPLEMENTATION FOR EDUCATIONAL PURPOSES**

The study of computing and its application in educational and other environments is very much associated with planned and sequenced implementation of tasks. A study and understanding of how tasks might be represented, sequenced and implemented is essential if technology is to be used effectively in education. The use of project work as a pedagogical technique is a popular strategy to promote independent learning and student autonomy. This subject provides students with a framework to evaluate this methodology.

Course: ED50

Prerequisite: MDB375

Credit Points: 12 Contact Hours: 3 per week

■ **MDB378 EARTH & SPACE**

This unit initiates the development of competence in pedagogical content knowledge in science for students. It examines scientific concepts in important areas of space, time and motion, the origin and history of earth and its environments. Scientific principles and techniques for observing space and earth phenomena are investigated. Strategies for incorporating this knowledge in teaching settings.

Course: ED51

Credit Points: 12 Contact Hours: 3 per week

■ **MDB379 SCIENCE & SURVIVAL**

This unit continues to develop competence in pedagogical content knowledge. It examines a range of scientific concepts in the area of matter and energy and how these concepts are applied in a technological context. On a broader horizon the scientific principles underlying major innovations, disasters and controversial issues are examined. Strategies for incorporating this knowledge in a teaching situation.

Course: ED51

Credit Points: 12 Contact Hours: 3 per week

■ **MDB380 TECHNOLOGY & LIFE SCIENCE**

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. This subject focuses on the use of instrumentation and technology in the area of science research in the life sciences and investigates how this technology can be adapted to practice in primary classrooms.

Course: ED51

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.

Course: ED26

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; content and learning experiences for early childhood; integration and application.

Course: ED26

Credit Points: 12 Contact Hours: 3 per week

■ **MDB412 PRIMARY MATHEMATICS CURRICULUM**

Influential factors on development and content of mathematics education; how students learn and apply mathematics; identification of effective curriculum models and teaching strategies for mathematics.

Course: ED26

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.

Course: ED26

Credit Points: 12 Contact Hours: 3 per week

■ **MDB415 PRIMARY SCIENCE CURRICULUM**

Review of directions for primary science education nationally and globally; critical evaluation of current practice and curricula; review of how students learn science with reference to current research; applications of these principles to changes in the curriculum and teaching strategies; design, implementation and evaluation of curricula changes.

Course: ED26

Credit Points: 12 Contact Hours: 3 per week

■ **MDB416 SECONDARY SCIENCE CURRICULUM**

Review of directions for secondary science education nationally and globally; critical evaluation of current practice and curricula; review of how students learn science with reference to current research; applications of these principles to changes in the curriculum and teaching strategies; design, implementation and evaluation of curricula changes.

Course: ED26

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.  
Course: ED26

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.

Course: ED26

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.

Course: ED26

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.

Course: ED26

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.

Courses: ED11, ED13, ED61

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.

Courses: ED11, ED13, ED61

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 unit.

Course: ED13

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.

Course: ED13

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; resources and technologies: print materials, community resources; social, cultural and educational issues in using technology.

Courses: ED11, ED13

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.

Courses: ED11, ED13

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 may vary according to student interest.

Courses: ED11, ED13

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.

Courses: ED11, ED13

Credit Points: 12      Contact Hours: 3 per week

**■ MDN609 EMERGING EDUCATIONAL TECHNOLOGIES**

Educational applications of artificial intelligence: tutoring systems, robotic and expert systems; applications of multimedia systems; powerful graphic systems; cognitive modelling; development and evaluation of educational materials using technologies.

Courses: ED11, ED13

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.

Courses: ED11, ED13

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 units in the senior school; managing computing within an educational environment.

**Course:** ED32 **Co-requisite:** EDP450

**Prerequisite:** Appropriate discipline studies in the undergraduate degree.

**Credit Points:** 24 **Contact Hours:** 6 per week

#### ■ MDP421 COMPUTER EDUCATION CURRICULUM & TEACHING STUDIES B

Provides a theoretical context and considers practical applications in curriculum planning, implementation and evaluation; current research in student learning and learning difficulties is applied to teaching and learning strategies; roles of senior science teachers in schooling, the profession and community.

**Course:** ED32

**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. Considers the Mathematics syllabus in P-10 and senior school.

**Course:** ED32 **Co-requisite:** EDP450

**Prerequisite:** Appropriate discipline studies in the undergraduate degree.

**Credit Points:** 24 **Contact Hours:** 6 per week

#### ■ MDP431 MATHEMATICS CURRICULUM & TEACHING STUDIES B

See MDP421.

**Course:** ED32

**Prerequisite:** MDP430 **Co-requisite:** EDP451

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ MDP432 JUNIOR MATHEMATICS CURRICULUM & TEACHING STUDIES C

This Curriculum C unit 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 unit and which are expanded in the Curriculum B unit.

**Course:** ED32

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ MDP440 SCIENCE CURRICULUM & TEACHING STUDIES A

Introduction to a study of issues and practice in Science curriculum through a model for science education emphasising 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.

**Course:** ED32 **Co-requisite:** EDP450

**Prerequisite:** Appropriate discipline studies in the undergraduate degree.

**Credit Points:** 24 **Contact Hours:** 6 per week

#### ■ MDP441 SCIENCE CURRICULUM & TEACHING STUDIES B

See MDP421.

**Course:** ED32

**Prerequisite:** MDP440 or MDP449

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ MDP442 AGRICULTURE CURRICULUM & TEACHING STUDIES B

See MDP421.

**Course:** ED32

**Prerequisite:** MDP440 or MDP449

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ MDP443 BIOLOGY CURRICULUM & TEACHING STUDIES B

See MDP421.

**Course:** ED32

**Co-requisite:** EDP451

**Prerequisite:** MDP440 or MDP449

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ MDP444 CHEMISTRY CURRICULUM & TEACHING STUDIES B

See MDP421.

**Course:** ED32

**Co-requisite:** EDP451

**Prerequisite:** MDP440 or MDP449

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ MDP445 EARTH SCIENCE CURRICULUM & TEACHING STUDIES B

See MDP421.

**Course:** ED32

**Co-requisite:** EDP451

**Prerequisite:** MDP440 or MDP449

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ MDP446 MARINE STUDIES CURRICULUM & TEACHING STUDIES B

See MDP421.

**Course:** ED32

**Co-requisite:** EDP451

**Prerequisite:** MDP440 or MDP449

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ MDP447 PHYSICS CURRICULUM & TEACHING STUDIES B

See MDP421.

**Course:** ED32

**Co-requisite:** EDP451

**Prerequisite:** MDP440 or MDP449

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ MDP448 JUNIOR SCIENCE CURRICULUM & TEACHING STUDIES C

This unit 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 developed in the Curriculum A unit and expanded in the Curriculum B unit.

**Course:** ED32

**Incompatible with:** MDP440, MDP441

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ MDP449 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 skills development.

**Course:** ED32

**Co-requisite:** EDP450

**Prerequisite:** Appropriate discipline studies in the undergraduate degree.

**Credit Points:** 24 **Contact Hours:** 6 per week

#### ■ MDP450 MATHEMATICS, SCIENCE & TECHNOLOGY I

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.

**Course:** ED31

**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.

**Course:** ED31 **Prerequisite:** MDP450  
**Credit Points:** 12 **Contact Hours:** 4 per week

### ■ MDP503 INFORMATION SYSTEMS IN EDUCATION

Explores some of the characteristics and applications of information systems in an educational context. It looks at how information is modelled, stores and retrieved using relational database techniques; the impact of society of the use of information systems; the pedagogies associated with teaching about and using information systems in schools are explored.

**Course:** ED21, ED26  
**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ MDP504 SCHOOL ADMINISTRATION USING INFORMATION TECHNOLOGY

The use of information technologies in the administration of schools; explores a range of administrative packages; cost benefits and ethical implications.

**Course:** ED21  
**Prerequisite:** MDP532 or MDP530  
**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ MDP506 COMPUTER EDUCATION PROJECT

Offers students the opportunity to extend expertise gained in other units in the Graduate Diploma in Education (Computer Education). Under supervision students select a problem relevant to computer education and implement a solution.

**Course:** ED21  
**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ MDP507 TEACHING SECONDARY COMPUTER STUDIES

Investigates and develops the pedagogy and management associated with computer studies courses currently implemented in Queensland Secondary schools. Emphasis is given to the Information Processing and Technology syllabus and the Practical Computer Methods syllabus.

**Course:** ED21, ED26 **Co-requisite:** MDP537  
**Prerequisite:** MDP503, MDP532  
**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ MDP508 COMPUTER USE IN THE PRIMARY CURRICULUM

Examines the extent to which computers may be used to teach problem solving in the primary classroom through a study of Logo, adventure games, simulations, and genuine problem solving software. In addition, the use of popular software tools as aids to teaching and learning is considered.

**Course:** ED21, ED26  
**Prerequisite:** MDP537 or MDP532 or MDP530  
**Credit Points:** 12 **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.

**Courses:** ED22, ED61 **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.

**Courses:** ED22, ED26, ED61  
**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.

**Courses:** ED22, ED26, ED61  
**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, geometry; the renaissance; origins and development of calculus; applications in the classroom.

**Courses:** ED22, ED26  
**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.

**Courses:** ED22, ED26, ED61  
**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.

**Course:** ED22  
**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; practical teaching sequences of classroom activities; learning difficulties; approaches to assessment.

**Course:** ED22 **Prerequisite:** CUP502  
**Credit Points:** 12 **Contact Hours:** 3 per week

■ **MDP526 RESOURCING SCIENCE EDUCATION**

The role of equipment in science; including 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.

Courses: ED22, ED26      **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.

Courses: ED22, ED26  
**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.

Courses: ED22, ED26  
**Credit Points:** 12      **Contact Hours:** 3 per week

■ **MDP529 ASSESSMENT & REMEDIATION IN MATHEMATICS**

Overview of numerical and conceptual learning difficulties in mathematics; learning experiences in various areas of mathematics, utility of mathematics in real life situations; examination of mathematics in other curriculum areas; learning experiences in the integration of mathematical topics; use of hand-held calculator and the computer as aids to conceptual development as practical tools; geometric and algebraic concepts across the curriculum; error analysis and diagnostic inventories; remedial strategies.

Course: ED24  
**Credit Points:** 12      **Contact Hours:** 3 per week

■ **MDP530 COMPUTER APPLICATIONS IN EDUCATION**

Allows students to gain technological skills and understanding while investigating applications of these technologies in the context of teaching and learning. A wide range of computer applications will be covered including writing, publishing, graphics, communications and project management tools.

Course: ED21  
**Credit Points:** 12      **Contact Hours:** 3 per week

■ **MDP531 INVESTIGATIONS INTO COMPUTER AIDED LEARNING**

The use of interactive technology in the teaching/learning process; approaches to and uses of computer aided learning, hypermedia authoring systems such as Hypercard, Linkway and Toolbook, and their applications in multimedia environments.

Course: ED21  
**Credit Points:** 12      **Contact Hours:** 3 per week

■ **MDP532 COMPUTER SYSTEMS IN AN EDUCATIONAL CONTEXT**

An introduction to educational computer systems; it includes a study of problem solving using computers, the architectures of computer systems, operating sys-

tems and an introduction to computer programming using appropriate educational languages.

Course: ED21, ED26

**Credit Points:** 12      **Contact Hours:** 3 per week

■ **MDP533 TEACHING INFORMATION SYSTEMS MODELLING**

Designed for prospective teachers of information system modelling; explores the pedagogies and approaches appropriate for teaching students at a variety of levels including a secondary school environment; development and writing of specification documents for information system implementation within an educational context; tools such as relational languages and CASE used by students to implement small educational information systems.

Course: ED21      **Prerequisite:** MDP503  
**Credit Points:** 12      **Contact Hours:** 3 per week

■ **MDP534 EDUCATIONAL APPLICATIONS OF ARTIFICIAL INTELLIGENCE**

Artificial Intelligence as a discipline impacting on education, philosophical issues, and methods used in AI; focuses particularly on AI applications which cross broad areas of the school curriculum; provides appropriate curriculum support for teachers of the AI topic within the Information Processing and Technology unit at a secondary school level.

Course: ED21      **Prerequisite:** MDP535  
**Credit Points:** 12      **Contact Hours:** 3 per week

■ **MDP535 EDUCATIONAL SOFTWARE DEVELOPMENT**

Data, procedural and object-orientated abstractions used in conjunction with modular programming practices. These understandings are used to solve problems from a wide range of practical educational applications especially with respect to the development of educational software.

Course: ED21      **Prerequisite:** MDP532  
**Credit Points:** 12      **Contact Hours:** 3 per week

■ **MDP536 COMPUTER GRAPHICS IN TEACHING**

The use of computer graphics to enhance teaching and learning in a school environment. A problem solving approach is employed and students are given the opportunity to apply what they are learning to their own curriculum areas.

Course: ED21  
**Prerequisite:** Either MDP532 or MDP530  
**Credit Points:** 12      **Contact Hours:** 3 per week

■ **MDP537 MAJOR ISSUES IN COMPUTER EDUCATION**

The application and implication of the use of information technologies in an educational environment; the impact of teaching, learning and the curriculum.

Course: ED21  
**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 measurement.

Course: BN30  
**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.

Course: BN30      **Prerequisite:** MEB010  
**Credit Points:** 4      **Contact Hours:** 2 per week

**■ MEB031 MATERIAL TECHNOLOGY**

A structure property approach to orthotic materials; plastics; rubber; metals; composites; failure modes; strength; creep; fatigue; resilience; selection procedures.

Course: PU45

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; hazards with machinery and materials failure.

Course: PU44

Credit Points: 8 Contact Hours: 3 per week

**■ MEB101 DESIGN 1**

Mechanical design: power transfer; V-belt drives; chain drives; gear drives; machine components.

Courses: IF53, ME35, ME45

Prerequisites: CEB184, MEB121

Co-requisites: CEB185, MEB111, MEB133

Credit Points: 8 Contact Hours: 3 per week

**■ MEB111 DYNAMICS**

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.

Courses: CE42, EE43, EE44, IF53, ME23, ME45

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.

Courses: CE42, EE43, EE44, IF53, ME45

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.

Courses: CE42, EE43, EE44, IF53, ME45

Credit Points: 6

Contact Hours: 1.5 or 3 per week

**■ MEB171 INTRODUCTION TO MANUFACTURING**

Manufacturing in the Australian economy; modern concepts in manufacturing systems design: the inter-relationship between design, materials selection, manufacturing processes, marketing and information processing of products; choice of manufacturing technologies in relation to product quantity and quality.

Courses: CE42, EE43, EE44, ME45

Credit Points: 2 Contact Hours: 1 per week

**■ MEB173 MANUFACTURING PRACTICE**

Manufacturing in world and Australian contexts; concept of manufacturing systems; conventional and non-traditional manufacturing technology; introduction to value analysis, product design and material selection; tolerancing and metrology; total quality control.

Course: IF53

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.

Course: ME45

Contact Hours: 5 weeks

**■ MEB230 MATERIALS 2**

Solidification of ingots and castings; segregation; defects; properties of cast iron; 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.

Courses: IF53, ME35, ME45

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.

Courses: IF53, ME45

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; emphasis on single phase systems; field visit.

Courses: IF53, ME45

Credit Points: 6 Contact Hours: 3 per week

**■ MEB251 THERMODYNAMICS 2**

Steam plant; impulse and reaction turbines; gas turbines; refrigeration; field visit.

Courses: IF53, ME35, ME45,

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.

Course: IF53

Contact Hours: 5 weeks

**■ MEB300 INDUSTRIAL EXPERIENCE 2**

See MEB270.

Course: ME45

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.

Course: IF53, ME35, ME45

Prerequisites: CEB184, CEB185, MEB111

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.

Course: IF53, ME45

Prerequisites: MAB193, MEB111, PHB132

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.

Course: EE43

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.

Course: ME45

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.

Courses: IF53, ME45

Co-requisite: MEB313

Prerequisites: CEB184, CEB185, MEB101, MEB121,

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.

Course: ME45

Contact Hours: 5 weeks

**■ MEB408 PROJECT 1**

Investigate and present a formal report on a mechanical engineering problem; project may be industry based or arise from applied research.

Course: ME45

Prerequisite: MEB502

Co-requisite: MEB489

Credit Points: 14 Contact Hours: 6 per week

**■ MEB409 PROJECT 2**

Investigate and present a formal report on a mechanical engineering problem; project may be industry based or arise from applied research.

Course: ME45

Prerequisite: MEB502

Co-requisite: MEB489

Credit Points: 7 Contact Hours: 3 per week

**■ MEB411 THEORY OF MACHINES**

Balancing of mechanisms and rotors; gyroscopic effects in mechanisms, rotors and vehicles; gear trains, simple and epicyclic; friction and centrifugal devices such as clutches and governors.

Course: ME45

Prerequisites: CEB184, CEB185, MEB111

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.

Courses: ME35, ME45

Co-requisite: MEB550

Prerequisites: MEB251, MEB462

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.

Course: EE43

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.

Courses: IF53, ME35, ME45

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.

Courses: IF53, ME35, ME45

Credit Points: 6 Contact Hours: 3 per week

**■ MEB464 FLUIDS 3**

Boundary layer theory; viscous flow via the Navier-Stokes and Reynold's equations; isentropic compressible flow; normal and oblique shock waves.

Course: ME45 Prerequisites: MAB893, MEB462

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.

Course: IF53

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.

Course: IF53

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.

Courses: ME35, ME45

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.

Courses: IF53, ME45

Prerequisites: CEB102, CSB191, MEB111,

MEB133, MEB381

Co-requisites: MEB231, MEB313, MEB411

Credit Points: 7 Contact Hours: 3 per week

**■ MEB489 MECHANICAL DESIGN PROJECT**

A team approach to design: projects from University or industry; application of theoretical and practical design principles; design, draw and supervise manufacture of project; presentation of formal report.

Course: ME45 Co-requisites: MEB772, MEB911

Prerequisites: MEB483, MEB511, MEB610,

MEB773

Credit Points: 7 Contact Hours: 3 per week

**■ MEB500 SPECIAL TOPIC 1**

A series of lectures and tutorials in unit areas which are of special professional relevance to the student's intended career path, or which may be available on occasions from visiting scholars.

**Courses:** IF53, ME45

**Prerequisites:** Students to have achieved an appropriate level of preparation in topic area concerned.

**Co-requisites:** Depend on the syllabus of the particular special topic offered.

**Credit Points:** 14      **Contact Hours:** 3 per week

**■ MEB501 PROJECT**

A survey of relevant literature and organised experimental work resulting in conclusions presented in a formal report.

**Course:** ME35

**Credit Points:** 16      **Contact Hours:** 3 per week

**■ MEB502 RESEARCH METHODS**

The project exposes students to self-regulated, supervised research on a specified topic associated with materials or manufacturing engineering. Survey of relevant literature and organised experimental work resulting in conclusions presented in a formal report.

**Course:** ME45      **Prerequisites:** MEB230, MEB231

**Credit Points:** 8      **Contact Hours:** 4 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.

**Courses:** IF53, ME45      **Co-requisite:** MAB893

**Prerequisites:** MAB493, PHB132

**Credit Points:** 7      **Contact Hours:** 3 per week

**■ MEB511 STRESS ANALYSIS**

Analysis of strain and stress; strain-displacement relations; stress and strain transformation; two-dimensional problems including curved bars, thick-walled cylinders and rotating discs; tension of prismatic bars and thin-walled sections; failure criteria and their applications; experimental strain measurement.

**Course:** ME45

**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.

**Courses:** IF53, ME45

**Prerequisites:** MEB230, MEB231

**Credit Points:** 7      **Contact Hours:** 3 per week

**■ MEB550 HEAT TRANSFER**

Conduction: steady-state, one and two-dimensions, unsteady-state; convection: boundary layers, forced, natural and radiation black and grey bodies, shape factors.

**Courses:** ME35, ME45

**Credit Points:** 6      **Contact Hours:** 3 per week

**■ MEB551 PROPULSION & ENGINES**

Piston engines; superchargers 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.

**Course:** EE43

**Credit Points:** 5

**Prerequisite:** MEB362

**Contact Hours:** 3 per week

**■ MEB553 AERODYNAMICS 2**

Transonic and supersonic flows; critical Mach numbers; quasi one-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.

**Course:** EE43

**Credit Points:** 6

**Prerequisite:** MEB454

**Contact Hours:** 3 per week

**■ MEB571 MANUFACTURING ENGINEERING 2**

Fundamentals and applications of plasticity theory in the deformation of metals and plastics; forming machine performance and selection of machine tools.

**Course:** IF53

**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.

**Course:** IF53

**Contact Hours:** 5 weeks

**■ MEB601 SPECIAL TOPIC 2**

A series of lectures and tutorials in unit areas which are of special professional relevance to the student's intended career path, or which may be available on occasions from visiting scholars.

**Courses:** IF53, ME45

**Prerequisites:** Students require 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.

**Course:** ME45

**Co-requisite:** MEB511

**Prerequisites:** MAB493, MEB411, MEB510

**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.

**Course:** EE43

**Prerequisite:** MEB553

**Credit Points:** 5      **Contact Hours:** 3 per week

**■ MEB612 MECHANICAL MEASUREMENTS**

Stress and strain; force, torque and power measurements; vibration measurements; pressure and sound measurements; flow measurements; data transmission and recording.

**Course:** ME35

**Credit Points:** 8      **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.

**Courses:** IF53, ME45

**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.  
**Course:** ME45 **Prerequisites:** MEB215, MEB550  
**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.  
**Courses:** IF53, ME35, ME45  
**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.  
**Courses:** IF53, ME45  
**Credit Points:** 6 **Contact Hours:** 3 per week

### ■ MEB673 MANUFACTURING ENGINEERING 3

Machine tool vibration and chatter; water-jet, laser, EDM machining; introduction to CAD/CAM and CNC part programming; robotics and its industrial applications; use of laser interferometry.  
**Course:** IF53 **Prerequisites:** MEB471, MEB571  
**Credit Points:** 7 **Contact Hours:** 3 per week

### ■ MEB674 INDUSTRIAL ENGINEERING

Project planning and control; manufacturing resources planning; total quality management; principles of work study and materials handling systems.  
**Course:** ME35  
**Credit Points:** 8 **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.  
**Course:** ME45  
**Prerequisites:** MEB230, MEB231, MEB411, MEB483  
**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, eg. detailed analysis of undercarriage and flap systems; aircraft fuel systems; pressurisation systems; cockpit instrumentation and associated equipment; principles and operation of gyroscopes and accelerometers.  
**Course:** EE43  
**Credit Points:** 6 **Contact Hours:** 3 per week

### ■ MEB701 SPECIAL TOPIC 3

See MEB601.  
**Course:** ME45  
**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.

**Course:** ME45 **Prerequisites:** MEB640, MEB660  
**Credit Points:** 6 **Contact Hours:** 3 per week

### ■ MEB740 MAINTENANCE MANAGEMENT & TECHNOLOGY

Economic and environmental importance of maintenance; management including organisation; data systems; cost control; spares policy; design for reliability; planning of overhauls; maintenance of buildings; mechanical maintenance and failure analysis; electrical and electronic maintenance.  
**Courses:** EE43, ME35  
**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.  
**Courses:** IF53, ME45 **Prerequisite:** MEB670  
**Credit Points:** 6 **Contact Hours:** 3 per week

### ■ MEB772 ENGINEERING PROJECT APPRAISAL

Rational economic analysis of engineering projects at product 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.  
**Course:** ME45  
**Prerequisites:** MEB502, MEB472, MEB483  
**Co-requisites:** MEB670, MEB773  
**Credit Points:** 6 **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.  
**Courses:** IF53, ME35, ME45  
**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.  
**Course:** EE43  
**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.  
**Course:** EE43 **Prerequisite:** EEB692  
**Credit Points:** 6 **Contact Hours:** 3 per week

### ■ MEB800 SPECIAL TOPIC 4

See MEB701.  
**Course:** ME45  
**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.

**Courses:** IF53, ME45 **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.

**Course:** IF53  
**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.

**Course:** ME45  
**Prerequisites:** MEB462, MEB511, MEB550, MEB610  
**Credit Points:** 7 **Contact Hours:** 3 per week

#### ■ MEB950 PROCESS PLANT DESIGN

Duct and industrial pipework system design; pressure vessel design methods; field visits.

**Course:** ME45 **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 and systems.

**Course:** ME45 **Co-requisite:** MEB464  
**Credit Points:** 7 **Contact Hours:** 3 per week

#### ■ MEB970 MANUFACTURING RESOURCES PLANNING

Manufacturing planning and control systems; recognising the various phases of planning in a manufacturing enterprise; lot size analysis and scheduling techniques; design aids and specifications of MRPII; measuring performances.

**Course:** IF53  
**Credit Points:** 7 **Contact Hours:** 3 per week

#### ■ MEB971 KNOWLEDGE BASED MANUFACTURING SYSTEMS

Introduction to knowledge based systems (KBS); knowledge representation, inference methods and uncertainty; examples of KBS in process planning, production management, diagnostic systems; building a KBS.

**Course:** IF53 **Prerequisite:** MEB976  
**Credit Points:** 7 **Contact Hours:** 3 per week

#### ■ MEB973 PLASTICS TECHNOLOGY

Mechanical and physical properties of polymers; blow moulding, compression moulding, transfer and rotational moulding; extrusion and plastic injection moulding; tooling and product design for plastic components; machinery, process control and instrumentation in the plastics forming process.

**Courses:** IF53, ME35  
**Credit Points:** 7 **Contact Hours:** 3 per week

#### ■ MEB974 DESIGN FOR MANUFACTURING 2

Design of press tools, dies for forming operations and joining processes; CAD in tool and die design.

**Course:** IF53 **Prerequisite:** MEB571  
**Credit Points:** 7 **Contact Hours:** 3 per week

#### ■ MEB975 DESIGN OF MANUFACTURING SYSTEMS

Modelling of manufacturing systems using techniques such as IDEF; strategic planning for CIM; planning and design of FMS including selection of work stations, fixtures, AGV and robots; introduction to simulation and the use of simulation as a design tool.

**Course:** IF53, ME45 **Prerequisite:** MEB976  
**Credit Points:** 7 **Contact Hours:** 3 per week

#### ■ MEB976 COMPUTER INTEGRATED MANUFACTURING

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).

**Courses:** IF53, ME35, ME45  
**Credit Points:** 7 **Contact Hours:** 3 per week

#### ■ MEB977 COMPUTER CONTROL OF MANUFACTURING SYSTEMS

Analysis of digital control systems; applications and control of programmable controllers; control of information systems in manufacturing; data base techniques; integration and interfacing of machine tools; application and control systems in robots; communications network.

**Courses:** IF53, ME45 **Prerequisite:** MEB976  
**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.

**Course:** ME45  
**Prerequisites:** EEB209, MEB313, MEB411, 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 plants, storage silos and bins, ground stockpiling systems, and the associated supporting structures.

**Course:** ME45  
**Prerequisites:** CEB184, CEB185, MEB111, MEB411, MEB483, MEB511  
**Credit Points:** 6 **Contact Hours:** 3 per week

#### ■ MEN140 RELIABILITY & MAINTENANCE OPTIMISATION

Development of reliable designs; bathtub curve, FMECA; series, active and standby reliability and availability; matrix methods; system productiveness; fault trees; distribution forms; Weibull analysis; renewal theory, age renewal; block renewal, bad-as-old renewal; overhaul and renewal; Hastings' repair limit; inspect or monitor; physics of failure.

**Course:** ME76  
**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ MEN170 SYSTEMS MODELLING & SIMULATION

The concept of a model and model building; techniques for the solution of the models; simulation as a decision making tool; modelling for simulation and practical exercises in simulation using computer simulation packages in the areas of manufacturing systems and maintenance.

**Courses:** BS81, ME76  
**Credit Points:** 12 **Contact Hours:** 3 per week

### **■ MEN171 ADVANCED MANUFACTURING TECHNOLOGIES**

Overview of manufacturing systems engineering and applications of advanced computer aided drafting and design; implementation of CAD/CAM systems using three-dimensional modelling techniques; classification systems for part family formation for production and tooling; benefits of computer aided process planning; introduction and installation of flexible manufacturing cells and systems including robotics, automated guiding vehicles, on-line computer aided inspection, automation integration, support technologies and planning for CIM.

Course: ME76

Credit Points: 12      Contact Hours: 3 per week

### **■ MEN180 PROJECT MANAGEMENT**

Covers aspects of project management, including project planning feasibility assessments and financial evaluation, scheduling and resource control, controlling the project with respect to time, cost and equality.

Course: BS86

Credit Points: 6      Contact Hours: 3 per week

### **■ MEN181 LOSS CONTROL MANAGEMENT**

Teaches students the principles of loss prevention and how to apply them to the reduction of accidents, property loss and quality improvements.

Course: BS86

Credit Points: 6      Contact Hours: 3 per week

### **■ MEN190 PROJECT**

Substantial piece of work relevant to the course and carried out by each student on an individual basis; report will be examined and marked by academic supervisor in consultation with industrial supervisor.

Course: ME76

Credit Points: 24      Contact Hours: 3 per week

### **■ MEN240 MAINTENANCE MANAGEMENT & TECHNOLOGY**

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.

Course: ME76

Credit Points: 12      Contact Hours: 3 per week

### **■ MEN270 MANUFACTURING RESOURCE PLANNING**

Functions and inter-relationships between the three major components – production planning, operations planning and operations control – of a manufacturing requirements planning (MRP) system; practical exercises to provide hands on experience with a MRP system such as FACT.

Course: ME76

Credit Points: 12      Contact Hours: 3 per week

### **■ MEN271 METROLOGY**

The theory and practice of metrology which relates overall quality system requirements, methods of specifying products and components, calibration requirements, the theory of errors and uncertainties and some specialist measurements into a meaningful interpretation of metrology as part of a quality system.

Course: BS86

Credit Points: 6      Contact Hours: 3 per week

### **■ MEN280 ENGINEERING PROJECT MANAGEMENT**

Definition of project management; organisational structures for project management; planning the project; feasibility analysis; organising the project; legal aspects; project control; quality control.

Course: ME76

Credit Points: 12      Contact Hours: 3 per week

### **■ MEP173 QUALITY PLANNING**

Quality systems, a succinct explanation; case studies; TQC and the deeming philosophy; getting things into perspective; the business plan; quality management; continuous training and productivity improvement on the path to business success; quality assurance, its organisation and function; TQ principle; procedures and audits; everyone's responsibility; the role of the QA entity; organisation structure; the quality manual; standards and their applications; procedures preparation and format; the quality plan; inspection and test plans; design control; procurement to control; audit and corrective action; the quality manual assignment.

Course: BS77

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.

Courses: HL88, PU65

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.

Course: BS77

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.

Course: PU65

Credit Points: 12      Contact Hours: 3 per week

### **■ MEP371 RELIABILITY & MAINTAINABILITY**

Reliability and maintainability; relationship between reliability and quality; 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 main-

tainability; modelling; computerised maintenance systems, economics and systems availability.

Course: BS77

Credit Points: 6 Contact Hours: 3 per week

#### ■ MEP473 QUALITY SYSTEMS & ASSESSMENT

Unit 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.

Course: BS77

Credit Points: 8 Contact Hours: 2 per week

#### ■ MET120 ENGINEERING DRAWING 1

Lettering and linework; principles of third angle projection; orthographic projection; pictorial drawing; assembly drawing; sectional views; CAD.

Course: CE21

Credit Points: 7 Contact Hours: 3 per week

#### ■ MET140 ENGINEERING MATERIALS 1

General properties of materials; materials selection; service requirements and properties of ferrous and non-ferrous metals and alloys; corrosion types and prevention; testing procedures; plastics, ceramics and other materials.

Course: CE21

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.

Course: ME23

Credit Points: 8 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.

Course: ME23

Credit Points: 6 Contact Hours: 3 per week

#### ■ MET320 ENGINEERING DRAWING 3

Geometric tolerancing; structural drafting; simplified dimensioning techniques; CAD.

Course: ME23 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.

Course: ME23

Credit Points: 7 Prerequisite: MET250 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.

Course: ME23

Credit Points: 7 Prerequisite: MET250 Contact Hours: 3 per week

#### ■ MET420 ENGINEERING DRAWING 4

Specialist drafting techniques; electrical/electronic drafting; hydraulic/pneumatic diagrams; CAD.

Course: ME23 Prerequisites: MET120, MET220

Credit Points: 7 Contact Hours: 3 per week

#### ■ MET421 MECHANICAL PROJECT 1A

Report and presentation: projects selected from list; each deals with a specific engineering environment.

Course: ME23

Credit Points: 3 Prerequisite: MET320 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.

Course: ME23 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.

Course: ME23

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.

Course: ME23

Credit Points: 6 Prerequisite: MET171 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.

Course: ME23

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; shafts.

Course: ME23

Prerequisites: MET120, MET220, MET210

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 non-ferrous metals and alloys; corrosion types and prevention; testing procedures; plastics, ceramics, etc.

Course: EE22

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.

Course: EE22

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.

Course: ME23

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.

Course: ME23

Prerequisite: MET580

Credit Points: 7 Contact Hours: 3 per week

### ■ MET733 INDUSTRIAL METALLURGY

Techniques in casting; metallurgical advances in materials and their evaluation.

Course: ME23

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.

Course: ME23

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.

Course: ME23

Co-requisites: EET500, MET250

Credit Points: 6 Contact Hours: 3 per week

### ■ MET920 COMPUTER AIDED DESIGN & DRAFTING

Computer based drafting: two-dimensional drafting; design and solid modelling.

Course: ME23

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.

Course: ME23

Credit Points: 6 Contact Hours: 3 per week

### ■ MET940 MECHANICAL MEASUREMENTS

Instruments used to measure mechanical quantities; application; speed; acceleration; frequency; force; torque; pressure; level; flow; temperature.

Course: ME23

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.

Course: ME23

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. Pumping systems.

Course: ME23

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.

Course: ME23

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 eg. slide shows; application of computers and other electronic technologies in media production and presentation including: basic applications, communications, graphics, animation, interactive videodisc, multimedia and computer-based education. Elementary computer skills are developed including the use of Microsoft Works.

Course: ED50

Credit Points: 12 Contact Hours: 3 per week

### ■ MJB102 TEXT ANALYSIS

Theoretical strategies applied to a range of texts from print media, film, and television; film language and concepts in the semiotic analysis of film and television texts; questions of intertextuality, media interfaces, and media and society.

Course: BS50

Prerequisite: COB113

Credit Points: 12 Contact Hours: 3 per week

### ■ MJB103 NEWS PRODUCTION

What is a media organisation?; media industries and media firms; social responsibilities; managing deadlines; planning and decision-making in the newsroom; leadership and motivation; news practice: radio, television, newspapers; case studies.

Course: BS50

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.

Course: BS50

Credit Points: 12 Contact Hours: 3 per week

### ■ MJB105 FILM & SOCIETY

The Great Depression era, Roosevelt's new deal; the ways 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 various radical movements; the treatment of a range of social issues in American films of the 1970s and 1980s.

Courses: BS50, ED50

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 a expression of society. These analyses are related to the broader questions of representation and rhetoric of fiction in film.

Courses: BS50, ED50

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.

**Courses:** BS50, ED50

**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, animation, pixilation, computer graphics.

**Course:** BS50

**Credit Points:** 12 **Contact Hours:** 3 per week  
**Note:** Workshops may involve a further 3 hours 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.

**Courses:** BS50, ED50

**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 Embrafilme.

**Course:** ED50

**Credit Points:** 12 **Contact Hours:** 3 per week

**■ MJB111 CREATIVE PRESENTATIONS**

This unit 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.

**Course:** BS50

**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.

**Course:** BS50 **Prerequisites:** MJB126, MJB129

**Credit Points:** 12 **Contact Hours:** 3 per week  
**Note:** Workshops may involve a further 3 hours per week.

**■ MJB114 FILM & VIDEO BUSINESS**

The role of the producer and executive producer in the packaging and financing of film and television production: 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; obtaining finance, insurance, completion guarantees, legal and accounting requirements; social and ethical issues; script breakdowns, budgeting and production management.

**Course:** BS50

**Prerequisite:** MJB113 or 12 units in a degree program.

**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.

**Course:** BS50

**Prerequisite:** MJB114 and either MJB134 or MJB113

**Credit Points:** 12 **Contact Hours:** 3 per week  
**Note:** Workshops may involve a further 3 hours per week.

**■ MJB116 FILM LANGUAGE & GENRE**

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.

**Course:** BS50

**Credit Points:** 12 **Contact Hours:** 3 per week

**■ MJB118 FUNDAMENTALS OF PHOTOGRAPHY**

Historical development of the photographic arts, the photographer's role in society, 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.

**Courses:** BS50, IF52, IT20

**Credit Points:** 12 **Contact Hours:** 3 per week  
**Note:** Workshops may involve a further 3 hours 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 evolution and theories of reporting.

**Course:** BS50

**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.

**Course:** BS50

**Credit Points:** 12 **Prerequisite:** MJB120 **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.

Courses: BS50, BS72

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.

Course: BS50, BS72

Prerequisites: MJB120, MJB121 or MJP100

Credit Points: 12 Contact Hours: 3 per week

### ■ MJB126 VIDEO PRODUCTION

The theory and practise 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, recording; use of special effects.

Courses: BS50, BS72, ED50, IS43, IT20

Credit Points: 12 Contact Hours: 3 per week

Note: Workshops may involve a further 3 hours 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; 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.

Courses: BS50, BS72

Credit Points: 12 Contact Hours: 3 per week

Note: Workshops may involve a further 3 hours per week.

### ■ MJB129 FILM & TELEVISION SCRIPTWRITING

Writing through analysis of 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.

Courses: BS50, BS72

Prerequisite: MJB127 or 8 units in a degree program.

Credit Points: 12 Contact Hours: 3 per week

Note: Workshops may involve a further 3 hours 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. The media texts chosen include films, television programs, newspaper articles and

cartoons, photographs and advertisements. Some examples are also drawn from literature.

Courses: BS50, ED50

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.

Course: BS50

Prerequisites: MJB126 and MJB129

Credit Points: 12 Contact Hours: 3 per week

Note: Workshops may involve a further 3 hours per week.

### ■ MJB132 RADIO & TELEVISION JOURNALISM I

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.

Courses: BS50, BS72

Prerequisites: MJB121, MJB126

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.

Course: BS50

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 practice in workshops throughout the semester using materials provided on tape; production of a documentary or corporate video.

Courses: BS50, BS72

Prerequisites: MJB126 and MJP100 or MJB129

Credit Points: 12 Contact Hours: 3 per week

### ■ MJB135 PROFESSIONAL MEDIA PRACTICE

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 unit 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.

Course: BS50

Prerequisite: MJB122 or MJB138 for BBus (Jnl) majors; MJB113 or MJB134 for BBus (FTV) majors.

Credit Points: 12 Contact Hours: 3 per week

### ■ MJB137 PUBLIC AFFAIRS REPORTING

The role of the reporter in covering local, state, national and international politics, and major political issues are examined in depth. Topics 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.

**Course:** BS50 **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.

**Courses:** BS50, BS72 **Prerequisite:** MJB132  
**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ MJB139 JOURNALISTIC ETHICS & ISSUES

The Australian Journalists' Association code of ethics is examined against the background of Australia's multicultural and pluralistic democracy; the evolution of the code, its philosophical underpinnings, how it compares to other national and international media codes and the general value of codes of ethics. Students will be placed in ethical dilemmas and asked to make decisions and justify their choices; the value of deathknocks, privacy, defining off-the-record, handling leads and women in the media.

**Course:** BS50  
**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 social issues in the media; textual and discourse analysis; popular culture of the media.

**Courses:** BS50, ED50  
**Prerequisite:** MJB130 (or equivalent)  
**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ MJB141 FILM LANGUAGE

The processes by which meaning is constructed in film; the question of form in film, how films, both narrative and non-narrative, may be structured; the production of meaning through a detailed examination of mise en scene: movement and placement of actors, setting, lighting, and costume, cinematography: including camera angle, distance, movement, animation, and special effects, editing, and sound.

**Courses:** BS50, ED50 **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.

**Course:** BS50 **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.

**Courses:** BS50, ED50  
**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ MJB146 AUSTRALIAN DOCUMENTARY FILM

The newsreel in Australia: Fox Movietone News and Cinesound Review; 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.

**Course:** BS50  
**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.

**Courses:** BS50, ED50  
**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.

**Courses:** BS50, ED50  
**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ MJN100 ADVANCED MEDIA THEORY

This is the first unit of the media studies strand of the Master of Communication. As a preliminary to undertaking research in media studies, students study contemporary media theory in detail, extending the overview of communication and media theory offered in Communication Theory 2. Topics include: contemporary political economy of the media, feminist cultural theory, textual and audience studies in media and cultural studies, post-modernism, and cross-cultural communication. These studies will find preliminary application in some relevant research areas.

**Course:** BS84  
**Prerequisite:** MJN101 or equivalent  
**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ MJN101 ADVANCED MEDIA ANALYSIS

The theoretical strategies discussed in MJN100 are here given practical application in regard to textual practice. The more important theories of textual analysis: semiotics, structuralism, psychoanalysis, marxism and feminism are applied to a range of texts drawn from print media, including newspapers and magazines; film; television; and popular fiction.

**Course:** BS84  
**Prerequisite or Co-requisite:** MJN100  
**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ MJN103 AUSTRALIAN MEDIA CONTEXTS

Analyses specific aspects of the interaction between mass media and the Australian cultural context; approaches this relationship through cultural studies methodologies: discourse analysis, semiotics, structuralism and theories of cultural production; explores at an advanced level the histories and contemporary configurations of Australian media industries; telecommunications, television, film, radio, advertising and the print media.

Course: BS84

Prerequisite or Co-requisite: MJN100

Credit Points: 12 Contact Hours: 3 per week

### ■ MJN105 COMPARATIVE JOURNALISM

Theoretical basis of different media systems throughout the world; debate over the dominance of world media by western, particularly anglo-american, countries and perceived need for a new world information and communication order; practical problems of foreign correspondents in different societies.

Course: BS84

Credit Points: 12 Contact Hours: 3 per week

### ■ MJN106 JOURNALISTIC FREEDOM & RESPONSIBILITY

Provides opportunities for in-depth studies of the historical, philosophical and theoretical foundations of journalism in Australia, of the law of journalism in Australia and of journalistic responsibilities in Australia. Students learn historiography and how to research the law. They present to the class papers that might later become part of their theses on a historical issue on a legal issue or on an ethical issue.

Course: BS84

Credit Points: 12 Contact Hours: 3 per week

### ■ MJN107 NEWS MEDIA & INTERNATIONAL CONFLICT

Covers social contract and ethical theory in order to establish the rights and obligations of the citizen and government in Western liberal democracies; role of the media and free press in time of war or limited conflict; the wider ethical and theoretical issues behind reporting conflict, defence and defence theory to meet the military on equal terms, and the practicalities of international defence and war reporting.

Course: BS84

Credit Points: 12 Contact Hours: 3 per week

### ■ MJJ100 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.

Courses: BS72, BS78

Credit Points: 12, Contact Hours: 3 per week

### ■ MJJ101 COMMUNICATION THEORY 2

Builds on media studies theory that students have learned 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 (7 weeks) focuses on behavioural or process theory. Topics include: the process and effects of mass communication; systems thinking; media in society.

Courses: BS61, BS72, BS84

Credit Points: 12 Contact Hours: 3 per week

### ■ MJJ102 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.

Courses: BS61, BS84

Credit Points: 12 Contact Hours: 3 per week

### ■ MJX100 TELEVISION PRODUCTION

Basic application of production techniques to performance statistics.

Course: BS10

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.

Course: BS50

Prerequisite: MKB108 Co-requisite: MKB136

Credit Points: 12 Contact Hours: 3 per week

### ■ MKB104 ADVANCED MARKETING RESEARCH TECHNIQUES

Gives a good working familiarity with the most used techniques in marketing research. A detailed analysis of concepts gained in marketing research.

Course: BS50

Prerequisite: MKB151

Credit Points: 12 Contact Hours: 3 per week

### ■ MKB105 PROFESSIONAL PUBLIC RELATIONS PRACTICE

Final year students work in public relations oriented organisations under supervision for 4 weeks. Students arrange for their own placements, with approval from lecturer responsible for the unit. Acceptance into this unit is subject to the approval of the Head of School, and/or major coordinator.

Course: BS50

Prerequisites: MKB123, MKB120. Students must have completed 5 semesters full-time or equivalent.

Credit Points: 12 Contact Hours: 3 per week

### ■ MKB106 PROFESSIONAL ADVERTISING PRACTICE

Final year students work in advertising oriented organisations under supervision for 4 weeks. Undergraduates arrange their own placements, which must be approved by lecturer responsible for the unit. Acceptance into this unit is subject to the approval of the Head of School, and/or major coordinator.

Course: BS50

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.

Course: BS50

Prerequisites: MKB141 and EPB109

Credit Points: 12 Contact Hours: 3 per week



**■ MKB108 MARKET PRACTICES**

Quantitative marketing practices in: inventory control; queuing; LP programming; market simulation; causal regression analysis; market applications.

**Course:** BS50 **Prerequisites:** MKB140, EPB109  
**Credit Points:** 12 **Contact Hours:** 3 per week

**■ MKB109 SPECIAL TOPIC IN MARKETING**

Current and/or controversial issues in marketing, with input from relevant experts.

**Course:** BS50

**Prerequisite:** MKB140 or MKN106

**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.

**Course:** BS50

**Prerequisite:** MKB151

**Credit Points:** 12 **Contact Hours:** 3 per week

**■ MKB112 RESEARCH METHODS**

Traditions and methods in research, primary and secondary, qualitative and quantitative research.

**Course:** BS50

**Credit Points:** 12 **Contact Hours:** 3 per week

**■ MKB116 PRINCIPLES OF ADVERTISING**

History of advertising; structure of the industry; functions and objectives; campaign planning; budgeting; elementary media planning; creative functions; elementary copywriting; principles of advertising.

**Courses:** BS50, BS72

**Prerequisite:** MKB140

**Credit Points:** 12 **Contact Hours:** 3 per week

**■ MKB117 PUBLIC RELATIONS CAMPAIGNS**

This is a specialist public relations unit 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; 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.

**Course:** BS50

**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, magazine and direct mail; outdoor copywriting; basic print production.

**Courses:** BS50, BS72

**Prerequisites:** MKB116, MKB112 or MKB151

**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; electronic copywriting; graphic production; production of radio and TV commercials; campaign development and presentation of campaigns.

**Courses:** BS50, BS72

**Prerequisites:** MKB118 and MJB126 (may be a co-requisite)

**Credit Points:** 12 **Contact Hours:** 3 per week

**■ MKB120 PUBLIC RELATIONS 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.

**Course:** BS50

**Prerequisite:** MKB123

**Credit Points:** 12 **Contact Hours:** 3 per week

**■ MKB121 RETAIL ADVERTISING**

Retail advertising; motivational techniques; 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 campaigns.

**Courses:** BS50, BS72

**Prerequisite:** MKB118 or MKB145

**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.

**Courses:** BS50, BS72

**Prerequisite:** MKB116

**Credit Points:** 12 **Contact Hours:** 3 per week

**■ MKB123 PUBLICATION MANAGEMENT**

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 unit offers students desktop publishing skills which are required for assignments, and the scope to produce a brochure for a client.

**Courses:** BS50, BS72

**Prerequisite:** MKB129

**Credit Points:** 12 **Contact Hours:** 3 per week

**Note:** Students are required to undertake an additional 20 hours of desktop publishing training during the semester.

**■ MKB124 PUBLIC RELATIONS PRINCIPLES**

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 unit offers a theoretical foundation for students to equip them to better understand and practise the public relations skills emphasised in later units.

**Courses:** AA21, BS50, BS72, IS43

**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, coordination, media options, concepts of media decision making, comparisons, trends, media and the computer.

**Courses:** BS50, BS72

**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.

**Courses:** BS50, BS72, IF52

**Prerequisites:** MKB118, MKB122 and MKB125 or MKB116 and 4 marketing units.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ MKB127 ADVANCED ADVERTISING

Expansion and addition of theoretical perspectives and skills gained in the prerequisite unit. 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.

**Course:** BS50

**Prerequisite:** MKB118 or MKB125

**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.

**Courses:** BS50, BS72

**Prerequisite:** MKB126 or MKB157

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ MKB129 PUBLICITY & PROMOTION – PRINT

This unit 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 unit. Guest lecturers join the class to discuss aspects of media relations, writing style and publicity planning.

**Courses:** BS50, BS72

**Prerequisites:** MJB120, MKB124

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ MKB130 PUBLICITY & PROMOTION – ELECTRONIC

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.

**Course:** BS50

**Prerequisites:** MJB126, 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.

**Course:** BS50

**Prerequisite:** MKB126

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ MKB132 GOVERNMENT & FINANCIAL RELATIONS

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 communication strategies designed to solve specific problems.

**Courses:** BS50, BS72

**Prerequisites:** EPB124, MKB123

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ MKB133 PUBLIC RELATIONS 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 unit offers input from specialist guest lecturers who are practitioners/specialists in a particular area.

**Course:** BS50

**Prerequisite:** MKB123

**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; causal models in sales and advertising; qualitative models including Delphi.

**Course:** BS50

**Prerequisites:** EPB109 and MKB108

**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.

**Course:** BS50

**Prerequisites:** MKB140, EPB109 or MKN106

**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.

**Course:** BS50

**Co-requisite:** MKB151

**Prerequisites:** EPB109 and MKB140

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ MKB138 MARKET SIMULATION

This unit 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.

**Course:** BS50

**Prerequisites:** EPB116 and EPB109

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ MKB139 MARKETING (FOR INFORMATION TECHNOLOGISTS)

Definition of marketing including its fit into strategic plans of firms or institutions, either profit or non-profit; full explanation of 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.

**Courses:** CS28, IS28, IS10, IS43

**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; promotion including personal selling, advertising, publicity, sales promotion, distribution.

**Courses:** BS50, BS72, ED23, IF52, IF53, IS43, IT20  
**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.

**Courses:** BS50, IF53

**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.

**Courses:** BS50, IF53

**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.

**Courses:** BS50, IF53

**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.

**Course:** BS50

**Prerequisite:** MKB140 or MKN106

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ MKB145 RETAILING MANAGEMENT**

Introduction to the techniques, concepts and analytical issues 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.

**Course:** BS50      **Prerequisite:** MKB140 or 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.

**Courses:** BS50, IF53

**Prerequisite:** MKB140 or MKN106

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ MKB147 RETAIL MERCHANDISING**

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. Topics associated with the merchandising of retail products: forecasting customer demand, planning, promotions, as well as the managerial control of buying and stocking merchandise.

**Course:** BS50      **Prerequisite:** MKB140 or MKN106

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ MKB148 MARKETING DECISION MAKING**

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 study of an integrated decision support system for marketing management. Application to real-life examples with case studies and experiential exercises providing the learning framework.

**Courses:** BS50, IF53

**Prerequisite:** MKB140 or MKN106

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ MKB149 INTERNATIONAL MARKETING**

Nature and practice of international marketing. Assumes a familiarity with general marketing management and builds on this to develop insight into and understanding of the peculiar nature of international marketing management and the problems of marketing within different national markets. The unit is managerial in the sense that it focuses on problems and decisions facing managers of international marketing in business enterprises.

**Courses:** BS50, IF53

**Prerequisite:** MKB140 or MKN106

**Credit Points:** 12      **Contact Hours:** 3 per week

**■ MKB151 MARKETING RESEARCH**

This unit has three main purposes: to emphasise the processes most suitable to marketing research, 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 internal marketing research department. Topics include: problem formulation; research design and sources of information; data collection; analysis and interpretation of data; the marketing research report and presentation.

**Courses:** BS50, IF53

**Prerequisite:** MKB141 or MKN106

**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 and their environmental framework of promotion practice; the media of marketing communications; the planning and control.

Course: BS50 Prerequisite: MKB140 or MKN106  
Credit Points: 12 Contact Hours: 3 per week

#### ■ MKB153 PROFESSIONAL MARKETING PRACTICE

With the approval of the lecturer, students undertake a preferred study program within the marketing framework, eg. some particular area of the marketing mix. This 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.

Courses: BS50, IF53 Prerequisite: MKB151  
Credit Points: 12 Contact Hours: 3 per week

#### ■ MKB154 DISTRIBUTION MANAGEMENT

Physical distribution, warehouse location and management, choice of transportation modes.

Course: BS50  
Prerequisites: EPB109 and MKB140 or MKN106  
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.

Courses: BS50, IF53  
Prerequisite: MKB141 or MKN106  
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.

Courses: BS50, BS72 Prerequisite: MKB140  
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: how to set up a telemarketing centre and how to conduct a structured telemarketing campaign. Includes lectures by practitioners and field visits.

Course: BS50 Prerequisite: MKB157  
Credit Points: 12 Contact Hours: 3 per week

#### ■ MKB159 DIRECT MARKETING CAMPAIGNS (NOT OFFERED IN 1993)

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.

Course: BS50 Prerequisite: 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.

Course: BN30  
Credit Points: 6 Contact Hours: 1.5 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.

Course:  
Credit Points: 7 Contact Hours: 3 per week

#### ■ MKN100 SEMINAR IN QUANTITATIVE RESEARCH

Conceptual foundations of research design; research methodologies; data sources; methods of observation and data collection; data analysis; evaluation.

Course: BS85  
Prerequisite: MKB108. A high level of performance in units 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.

Course: BS85 Prerequisite: MKN108  
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; distribution channels, 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.

Course: BS85  
Credit Points: 12 Contact Hours: 3 per week

#### ■ MKN103 SEMINARS IN MARKETING MODELLING

Introduction to advanced simulation work in market structures and the impact of influencing variables.

Course: BS85 Prerequisite: MKN100  
Credit Points: 12 Contact Hours: 3 per week

#### ■ MKN104 1-2 THESIS

Synthesis and application of studies 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.

Course: BS85 Credit Points: 12

#### ■ 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; 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.

Course: BS81

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.

Courses: BS70, BS78, BS81

Credit Points: 12 Contact Hours: 3 per week

### ■ MKN107 SEMINARS IN 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. 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.

Course: BS83

Credit Points: 12 Contact Hours: 3 per week

### ■ MKN108 SEMINARS IN CONSUMER BEHAVIOUR

Consumer behaviour models and the influences of psychological and behavioural variables.

Course: BS85

Credit Points: 12 Contact Hours: 3 per week

### ■ MKN109 PRODUCT INNOVATION & DEVELOPMENT

Formal innovation techniques and the development process through to new product initiation.

Course: BS85

Credit Points: 12 Contact Hours: 3 per week

### ■ MKN110 SEMINARS IN STRATEGIC MARKETING

Students examine the theoretical concepts in strategy formulation and develop applied models.

Course: BS85

Credit Points: 12 Contact Hours: 3 per week

### ■ MKN111 MARKETING FOR QUALITY MANAGEMENT

Introduction to advanced marketing theories and practice and the need for a focus on marketing and quality management.

Courses: BS85, BS86

Credit Points: 6 Contact Hours: 3 per week

### ■ MKP100 FUNDRAISING PRINCIPLES

Fundamentals of fundraising; preparation of the case statement; planning methods; the various techniques of fundraising. Introductory segments on public relations, advertising, marketing and management. Topics include: philosophy of fundraising, its role in society, budget, fundraising, gift and capital cam-

paigns, planned giving, researching and establishing prospect bases, procedures of solicitation, team building of boards and volunteers, role of foundations.

Courses: BS72, BS78

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.

Courses: BS72, BS78

Credit Points: 12 Contact Hours: 3 per week

### ■ MKP102 ENTREPRENEURSHIP

This unit is a capstone to the course for Business Administration students. It encompasses the use of entrepreneurial management styles and creative business planning as a strategic management tool. Students will be required to develop and write a business plan based on an entrepreneurial idea, incorporating a hands on practical approach.

Courses: BS73, ED23

Prerequisite: Four postgraduate business units

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.

Course: BS73

Credit Points: 12 Contact Hours: 3 per week

### ■ MKP107 MARKETING FOR ARTS ADMINISTRATORS

This unit provides students of arts administration with an understanding of the principles of promotion, sponsorship, advertising, communication and marketing in the arts environment and the skills to develop marketing plans and campaigns for arts organisations.

Course: BS73 Prerequisite: MKP108 or MKN106

Credit Points: 12 Contact Hours: 3 per week

### ■ MKP108 ARTS ADMINISTRATION & SOCIETY

Arts administration in the Australian community; social, political, cultural and economic influences; government arts policies and funding processes; organisational structures and strategic planning in the arts; community, multicultural and regional arts; current research and practices in arts administration.

Course: BS73

Credit Points: 12 Contact Hours: 3 per week

### ■ MKP109 THE ARTS INDUSTRY

The framework of the arts as an industry; operational procedures; financial management; arts and the law; industrial relations in the arts; the use of the media; computer applications; business and volunteer support; work secondment case study.

Course: BS73

Credit Points: 12 Contact Hours: 3 per week

#### ■ NSB114 CLINICAL PRACTICE 1A

The acquisition of skills which are fundamental to nursing practice; communication skills, health assessment skills and selected technical skills in both University (on-campus) and clinical (off-campus) laboratories. Clinical laboratory experiences 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.

Course: NS40 Co-requisite: NSB151  
Credit Points: 8 Contact Hours: 3 per week

#### ■ NSB115 CLINICAL PRACTICE 1B

Provides students with the opportunity to consolidate the skills they have acquired during the preceding clinical unit, and aims at achievement of a specific level of clinical competence. Learning experiences are conducted in the clinical (off-campus) laboratory, and settings are as previously described.

Course: NS40 Co-requisite: NSB114  
Credit Points: 8

Contact Hours: 60 per 2 week block following semester

#### ■ NSB150 NURSING MANAGEMENT

This unit provides nurses with the opportunity to examine theory and processes that are relevant to the management of nursing care. Students will study selected management and leadership theories from a variety of perspectives. Management processes: planning, organising, staffing, directing, controlling.

Course: NS48  
Credit Points: 8 Contact Hours: 3 per week

#### ■ 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.

Course: NS40  
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.

Course: NS40 Prerequisite: NSB151  
Credit Points: 8 Contact Hours: 3 per week

#### ■ NSB201 PRINCIPLES OF PATIENT CARE

Emphasises the ethical, legal and clinical accountability of the radiographer for safe patient care; aims to develop in radiography students an awareness of their responsibilities in protecting patients and promoting their well-being.

Course: PH38  
Credit Points: 4 Contact Hours: 2 per week

#### ■ NSB207 NURSING & THE INDIVIDUAL

Designed to deepen and broaden the clinical decision making skill base of students who already have a foundation in nursing and related sciences from pre-

vious studies; 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 core planning, and highlights the use of research in support of clinical decisions.

Course: NS48  
Credit Points: 8 Contact Hours: 3 per week

#### ■ NSB214 CLINICAL PRACTICE 2A

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 unit take place in a variety of settings which include hospitals, nursing homes and palliative care facilities.

Course: NS40  
Co-requisites: NSB114, NSB115, NSB151, NSB152  
Credit Points: 8 Contact Hours: 3 per week

#### ■ NSB215 CLINICAL PRACTICE 2B

Provides students with the opportunity to consolidate the skills which they have acquired during the preceding units; 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 unit.

Course: NS40  
Co-requisites: NSB114, NSB115, NSB214  
Credit Points: 8  
Contact Hours: 60 per 2 week block following semester

#### ■ NSB301 NURSING & BIOPHYSICAL HEALTH 1

Effects of selected pathophysiological processes on meeting human needs; topics include: assessment and nursing diagnosis of gas exchange, circulation, hydration, physical comfort and safety problems; and independent and collaborative strategies designed to promote, maintain and/or restore health.

Course: NS40 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.

Course: NS40 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; 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: nature of culture and behavioural practices of societies, fundamental aspects of socio-anthropological and epidemiological methodology, 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.

Course: NS40, NS48

Credit Points: 8 Contact Hours: 3 per week

### ■ NSB308 NURSING & MENTAL DISORDER

Mental disorder is common and extensive across Australia, and affects all age and social groupings. This unit provides a framework for addressing the important issues and principles associated with the understanding of the interrelatedness of individual, family, community and environment in the development, maintenance and resolution of mental disorders. Topics which include the psychodynamics of normal and abnormal behaviour, diagnosis and presentation of common mental disorders, psychobiology, psychopharmacology, nursing intervention and research in the aetiology and treatment of mental disorders and mental health legislation.

Course: NS40, NS48

Credit Points: 8 Contact Hours: 3 per week

### ■ NSB349 COUNSELLING & CRISIS MANAGEMENT

This unit will provide an awareness of the basic theories and principles of crisis intervention methodology, and will focus on the role of nurses in counselling clients who are experiencing difficulties in their ability to deal with situations in which they find themselves. Topics to be addressed include major theoretical and conceptual perspectives of counselling; the process of change; counselling in a group context; typology of crises; and crisis management.

Course: NS48

Credit Points: 8 Contact Hours: 3 per week

### ■ NSB350 HEALTH EDUCATION IN NURSING

This unit is designed as a foundation for the exploration of the theoretical bases of education, including concepts and issues within educational research. Topics to be explored include historical perspectives of educational developments; educational research; educational theories, their utilisation; and client education in a health care context.

Course: NS48

Credit Points: 8 Contact Hours: 3 per week

### ■ NSB360 CLINICAL PRACTICE 3A/BH

### ■ NSB370 CLINICAL PRACTICE 3A/MH

Students 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 unit are undertaken in settings which include hospitals and palliative care facilities or psychiatric-mental health facilities.

Course: NS40

Co-requisites: NSB214, NSB301, NSB215, or NSB302

Credit Points: 8 Contact Hours: 3 per week

### ■ NSB361 CLINICAL PRACTICE 3B/BH

### ■ NSB371 CLINICAL PRACTICE 3B/MH

See NSB215.

Course: NS40 Co-requisite: NSB360 or NSB370

Credit Points: 8

Contact Hours: 60 per 2 week block following semester

### ■ NSB401 NURSING & BIOPHYSICAL HEALTH 2

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.

Course: NS40

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.

Course: NS40 Prerequisites: NSB151, NSB152

Credit Points: 8 Contact Hours: 3 per week

### ■ NSB406 NURSING & THE FAMILY

Family nursing practice recognises the substantial impact families can have on the health of individuals within the family unit, and upon society as a whole. 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.

Courses: NS40, NS48

Credit Points: 8 Contact Hours: 3 per week

### ■ NSB407 NURSING & THE COMMUNITY

Community health is an important focus for nursing practice; provides an introduction to fundamentals of community nursing practice and facilitates development of decision-making skills in this area. Topics include: models of community; community development; perspectives of community health; application of epidemiological principles to community health; community groups with particular health needs; strategies for promotion of community health.

Courses: NS40, NS48

Credit Points: 8 Contact Hours: 3 per week

### ■ NSB450 READINGS IN NURSING

This unit reflects the specialised expertise of staff and the interests of students. It includes the preparation of a summative review of relevant, current literature relating to a selected area of scholarship or research, including reports, monographs and journal articles.

Course: NS48

Credit Points: 12 Contact Hours: 3 per week

### ■ NSB460 CLINICAL PRACTICE 4A/BH

### ■ NSB470 CLINICAL PRACTICE 4A/MH

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 hospi-

tals, palliative care facilities, and disability services or psychiatric-mental health facilities.

**Course:** NS40

**Co-requisites:** NSB214, NSB401, NSB215 or NSB402

**Credit Points:** 8      **Contact Hours:** 3 per week

■ **NSB461 CLINICAL PRACTICE 4B/BH**

■ **NSB471 CLINICAL PRACTICE 4B/MH**

See NSB215.

**Course:** NS40    **Co-requisite:** NSB460 or NSB470

**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.

**Course:** NS40, NS48

**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 unit 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.

**Courses:** NS40, NS48

**Credit Points:** 8      **Contact Hours:** 3 per week

■ **NSB560 CLINICAL PRACTICE 5A/BH**

■ **NSB570 CLINICAL PRACTICE 5A/MH**

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 unit are undertaken in settings which include hospitals and palliative care facilities or psychiatric-mental health facilities.

**Course:** NS40    **Co-requisites:** NSB214, NSB215

**Credit Points:** 8      **Contact Hours:** 3 per week

■ **NSB561 CLINICAL PRACTICE 5B/BH**

■ **NSB571 CLINICAL PRACTICE 5B/MH**

Provides students with the opportunity to consolidate skills which they have acquired in previous units, particularly NSB560/NSB570. 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 units.

**Course:** NS40    **Co-requisite:** NSB560 or NSB570

**Credit Points:** 8      **Contact Hours:** 60 per 2 week block following semester

■ **NSB601 RESEARCH IN NURSING PRACTICE**

An understanding of components of the research process is essential in the development of an informed approach to contemporary nursing practice; topics include: significance of research in nursing; process of research; and appraisal of research reports.

**Courses:** NS40, NS48

**Credit Points:** 8      **Contact Hours:** 3 per week

■ **NSB660 CLINICAL PRACTICE 6A/BH**

■ **NSB661 CLINICAL PRACTICE 6B/BH**

■ **NSB670 CLINICAL PRACTICE 6A/MH**

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 unit are undertaken in settings which include hospitals, palliative care facilities and/or psychiatric – mental health facilities.

**Course:** NS40    **Co-requisites:** NSB214, NSB215

**Credit Points:** 8      **Contact Hours:** 3 per week

■ **NSB671 CLINICAL PRACTICE 6B/MH**

See NSB215.

**Course:** NS40

**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 unit is designed to enhance knowledge and skills involved in the selection, provision and communication of contemporary nursing care.

**Course:** NS62

**Credit Points:** 12      **Contact Hours:** 3 per week

■ **NSN103 RESEARCH METHODS IN NURSING**

Students 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.

**Courses:** NS62, NS85

**Credit Points:** 12      **Contact Hours:** 3 per week

■ **NSN104 PROFESSIONAL ISSUES IN NURSING**

Students expand their 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.

Course: NS62

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; 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.

Courses: NS62, NS85

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; 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.

Courses: NS62, NS85

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; adds a community focus to that of the individual and family; provides opportunities for students to enhance previous clinical knowledge and skills so that excellence in nursing care may be realised.

Courses: NS62, NS85

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; 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.

Courses: NS62, NS85

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 health and lifestyle of individuals, families and communities; focuses on family as client and provides opportunities to enhance previous clinical knowledge and skills through application and evaluation of appropriate health education strategies.

Courses: NS62, NS85

Credit Points: 12 Contact Hours: 3 per week

#### ■ NSN110 PRIMARY HEALTH CARE NURSING 3

See NSN109.

Courses: NS62, NS85

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; focuses on the individual as client, provides opportunities to enhance clinical knowledge and skills through the application and testing of interpersonal theory and therapeutics.

Courses: NS62, NS85

Credit Points: 12 Contact Hours: 3 per week

#### ■ NSN112 PSYCHIATRIC/MENTAL HEALTH NURSING 2

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, students enhance previous clinical knowledge and skills through the application and testing of family theory and therapeutics.

Course: NS62, NS85

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.

Courses: NS62, NS85

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.

Courses: NS62, NS85

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.

Courses: NS62, NS85

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.

Course: NS85

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 devia-

tions 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.

**Course:** NS62, NS85

**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.

**Course:** NS62, NS85

**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.

**Course:** NS85

**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.

**Course:** NS62, NS85

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ NSN121 CHILD & ADOLESCENT NURSING 2

Primary prevention strategies for health of children, adolescents and child rearing families; theoretical framework for health promotion and maintenance.

**Course:** NS62, NS85

**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.

**Course:** NS85

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ NSN206 INDEPENDENT STUDY

Increases flexibility and provides opportunity for in-depth study in approved area of interest to meet the diverse needs and interests of practising registered nurses. Students may work within the School of Nursing or with acknowledged external experts.

**Course:** NS62, NS85

**Credit Points:** 12

#### ■ NSN301 ADVANCED NURSING EDUCATION 1

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 unit. Students of nursing focus on the professional practice of that discipline.

**Course:** NS62, NS85

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ NSN302 ADVANCED NURSING EDUCATION 2

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 unit. Students of nursing focus on the professional practice of that discipline.

**Course:** NS85

**Credit Points:** 12 **Prerequisite:** NSN301 **Contact Hours:** 3 per week

#### ■ NSN303 ADVANCED NURSING EDUCATION 3

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 unit. 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.

**Course:** NS85

**Credit Points:** 12 **Prerequisite:** NSN301 **Contact Hours:** 3 per week

#### ■ NSN304 ADVANCED NURSING MANAGEMENT 1

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.

**Course:** NS62, NS85

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ NSN305 ADVANCED NURSING MANAGEMENT 2

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.

**Course:** NS85

**Credit Points:** 12 **Prerequisites:** NSN301 **Contact Hours:** 3 per week

#### ■ NSN308 ADVANCED NURSING CLINICAL 2

Allows the students to implement functions of the advanced clinical practice role. The content of this unit focuses on implementing the advanced clinical practice role in a selected area. It provides experiences to strengthen clinical skill, knowledge and judgment.

**Course:** NS85

**Credit Points:** 12 **Prerequisite:** NSN301 **Contact Hours:** 3 per week

#### ■ NSN309 ADVANCED NURSING CLINICAL 3

Develops knowledge and skill in the consultative function of the advanced clinical practitioner role. Also develops skill in implementation of innovative change utilising skills from leadership, innovation, and change theory. Examines consultation theory and practice in detail. Study areas include a focus on relationship between the nurse consultant and the client, problems that can arise, planning intervention and evaluation of the consultative process.

**Course:** NS85

**Credit Points:** 12 **Prerequisite:** NSN301 **Contact Hours:** 3 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.

**Course:** NS85 **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.

**Course:** NS85 **Prerequisites:** NSN401, MSN150  
**Credit Points:** 24 **Contact Hours:** 3 per week

**■ NSN405 QUALITATIVE RESEARCH**

The problem of developing appropriate methodological frameworks for the conduct of research.

**Courses:** HL88, NS62, NS85 **Credit Points:** 12

**■ NSN406 DISSERTATION**

This study represents an independent piece of research completed with the guidance of a supervisor. The dissertation provides an opportunity for coursework conducted in the area of specialisation to be applied in a practical manner reflecting the student's specific interest in nursing. The third of three step-locked dissertation units in the Master of Nursing.

**Course:** NS85  
**Credit Points:** 24 **Contact Hours:** 3 per week

**■ NSN411 RESEARCH SEMINAR**

This unit has been developed to focus on research methods, primarily techniques and methods for collection and analysis of raw data both numerical and textual, and the analysis of secondary data. The subject focuses on each stage of the research process, including planning, research design, data collection methods, methods of analysis and ethical considerations. The first of three step-locked dissertation units in the Master of Nursing.

**Course:** NS85  
**Credit Points:** 12 **Contact Hours:** 3 per week

**■ NSN412 RESEARCH PROJECT**

Students design and implement research and gather and analyse data. The second of three step-locked dissertation units in the Master of Nursing.

**Course:** NS85  
**Credit Points:** 12 **Contact Hours:** 3 per week

**■ OPB132 OPHTHALMIC OPTICS 2**

An introduction to ophthalmic optics; 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.

**Course:** OP42  
**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.

**Course:** OP42  
**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. Ocular embryology.

**Course:** OP42 **Prerequisite:** LSB351  
**Co-requisites:** LSB451, 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.

**Course:** OP42 **Prerequisites:** OPB312, PHB340  
**Co-requisite:** OPB401  
**Credit Points:** 14 **Contact Hours:** 5 per week

**■ OPB504 OPHTHALMIC OPTICS 5**

A continuation of OPB132, emphasising problems with spectacle lenses. Practical application of theory to ophthalmic dispensing in the laboratory.

**Course:** OP42 **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.

**Course:** OP42 **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.

**Course:** OP42 **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 eye examinations.

**Course:** OP42 **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.

**Course:** OP42  
**Prerequisites:** LSB491, OPB401, LSB451  
**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.

Course: OP42 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.

Course: OP42 Prerequisites: OPB508, OPB509  
Co-requisites: OPB605, OPB609, OPB627, OPB617  
Credit Points: 6 Contact Hours: 3 per week

#### ■ OPB609 OPTOMETRY 6

This unit is a continuation of the theory and practice of routine and advanced clinical procedures which are used when conducting a complete eye examination. Areas include the management of binocular vision anomalies, methods of examining the visual fields and the measurement of intra-ocular pressure.

Course: OP42 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 unit focuses upon the fitting of contact lenses.

Course: OP42  
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.

Course: OP42 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.

Course: OP42 Prerequisite: OPB605  
Co-requisites: OPB709, OPB717, OPB750  
Credit Points: 24 Contact Hours: 13 per week

#### ■ OPB709 OPTOMETRY 7

This unit is a continuation of OPB609 and provides knowledge and understanding of the theory and clinical procedures involved in paediatric optometry, low vision, colour vision and aniseikonia.

Course: OP42 Prerequisite: OPB609, OPB750  
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 unit includes topics such as the physiological consequences of con-

tact 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.

Course: OP42 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 working in groups of up to three on projects of their own choosing or on a topic chosen from a suggested list. Topics must be original. Students conduct a literature search (including a computer-based search in conjunction with a reference librarian) 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.

Course: OP42  
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.

Course: OP42 Prerequisite: OPB709  
Co-requisites: OPB805, OPB750  
Credit Points: 6 Contact Hours: 2 per week

#### ■ OPB805 CLINICAL OPTOMETRY 8

A continuation of OPB705. This unit 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.

Course: OP42 Co-requisite: OPB750, OPB803  
Prerequisites: OPB705, OPB717, OPB709  
Credit Points: 32 Contact Hours: 17 per week

#### ■ OPN601 ADVANCED CONTACT LENS STUDIES

This unit contains instruction in specialised fitting techniques, including keratoconus, scleral lenses and prosthetics. There is also an emphasis on the design, manufacture and modification of lenses. The physiology and pathology associated with contact lens wear is also covered in detail.

Course: HL88  
Credit Points: 12 Contact Hours: 3 per week

#### ■ OPN602 ADVANCED CLINICAL METHODS

This unit explores techniques for the examination of the eye and visual function. Topics include: visual fields; static automated perimetry; screening versus threshold methods and their interpretation, modelling and trend analysis of visual field data; the visual field in glaucoma; contrast sensitivity function; alternative tests and their interpretation; clinical applications of contrast sensitivity function testing; colour vision; current research in congenital and acquired disorders; clinical tests, their application and interpretation; the design of colour vision screening procedures; entoptic phenomena and their application as diagnostic tools; advanced slit lamp biomicroscopy, gonioscopy, photography and fundus examination; other advanced

methods of examination such as ultrasonography, dark adaptation, motion sensitivity, eye movement studies and electro-physiology.

**Course:** HL88

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ OPN603 ADVANCED OCULAR PHARMACOLOGY

This unit explores the use of drugs for the treatment of eye diseases. The unit does not seek to qualify optometrists to use these drugs, nor to impart the clinical skills or procedures necessary for such a scope of practice; instead, it will supply the background knowledge and understanding of current theoretical and practical research concepts in therapeutics so essential to complement this evolution in health care. Topics include: the anatomy, physiology and pathology of tissue changes in relevant eye diseases; neurohumoral transmission - current concepts in receptor dynamics; the actions of systemic drugs; including antihypertensive, antiarthritic, asthma, antidepressant and anti-anxiety drugs; the actions and uses of drugs for the treatment of eye disease such as infections, inflammation, allergy and glaucoma; current research into treatment strategies for eye disease; optometry and therapeutic care.

**Course:** HL88

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ OPN604 PAEDIATRIC OPTOMETRY

Early child development, normal and abnormal visual development; epidemiology of visual handicap in childhood; effect of visual impairment on the family; support services; advanced examination techniques for the paediatric patient; multidisciplinary approach to management of the learning disabled child. Assessment is by research project.

**Course:** HL88

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ PHA154 INTRODUCTORY PHYSICS

An introduction to the basic concepts 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 these concepts.

**Courses:** LS15, SC10

**Credit Points:** 8      **Contact Hours:** 3 per week

### ■ PHA213 MEDICAL INSTRUMENTATION 2

Concepts and procedures in diagnostic instrumentation; transducer principles; characteristics of physiological signals; methods of measurement and instrumentation principles. Hospital visits.

**Course:** LS15

**Prerequisite:** PHA154

**Credit Points:** 8      **Contact Hours:** 4 per week

### ■ PHB001 INTRODUCTORY PHYSICS

Gives students without Senior Physics a basic grounding. Topics include: kinematics, mechanics, electricity and magnetism.

**Course:** SC30

**Incompatible with:** Sound Achievement or better in Senior Physics.

**Credit Points:** 6      **Contact Hours:** 3 per week

### ■ PHB111 PHYSICS 1B

A course of lectures and laboratory work on AC and DC circuit theory, electronics, vibrations and waves, sound, geometrical optics.

**Course:** PH38

**Prerequisite:** Sound Achievement - Senior Physics.

**Co-requisite:** PHB001 unless Senior Physics has been undertaken.

**Credit Points:** 8      **Contact Hours:** 3 per week

### ■ PHB122 PHYSICS 1

A course of lectures and laboratory work on data analysis, kinematics and mechanics, DC and AC circuit theory, electronics, vibrations and waves, sound, geometrical optics and physical optics.

**Courses:** CH32, ED50, OP42, SC30

**Prerequisite:** Sound Achievement - Senior Physics

**Co-requisite:** PHB001 or Sound Achievement - Senior Physics

**Credit Points:** 12      **Contact Hours:** 5 per week

### ■ PHB132 ENGINEERING PHYSICS 1A

A basic unit in the physics of waves and optics; 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.

**Courses:** CE42, EE43, EE44, IF23, IF53, ME23, ME45

**Credit Points:** 6      **Contact Hours:** 3 per week

### ■ PHB144 APPLIED SCIENCE FOR DESIGNERS 1

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.

**Courses:** BN30, PU49

**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.

**Courses:** LS36, PU42, PU44, PU45, SC30

**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.

**Courses:** IF52, SV34

**Credit Points:** 12      **Contact Hours:** 6 per week

### ■ PHB178 PRINCIPLES OF MEDICAL RADIATIONS

Principles of medical imaging and methods of detection, diagnosis and treatment of cancer.

**Course:** PH38

**Credit Points:** 10      **Contact Hours:** 5 per week

### ■ PHB222 PHYSICS 2

A course of lectures and laboratory work on mechanical properties of matter, fluids, gravitational fields, electromagnetic fields, thermal physics and quantum radiation physics.

**Courses:** ED50, OP42, SC30

**Prerequisite:** Sound Achievement - Senior Physics

**Co-requisite:** PHB001 unless Sound Achievement - Senior Physics

**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.

Courses: CE42, EE43, EE44, IF23

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.

Course: OP42

Prerequisite: PHB150 Co-requisite: OPB132

Credit Points: 12 Contact Hours: 7 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).

Course: PU45

Credit Points: 8 Contact Hours: 2 per week

## ■ PHB262 PHYSICS 2L

Extension of PHB150 including a.c., d.c. circuit theory, with emphasis on electronic and instrumentation, fields, modern and nuclear physics.

Course: LS36

Credit Points: 8 Contact Hours: 4 per week

## ■ PHB263 PHYSICS 2E

Extension of PHB150 including AC, DC circuit theory, with emphasis on electronics and instrumentation, fields, modern and nuclear physics. Fluids.

Courses: PU42, PU44, PU45, SC30

Credit Points: 12 Contact Hours: 6 per week

## ■ PHB272 RADIATION PHYSICS 1

Electrostatics, electromagnetism, the production of X-rays and their interaction with matter.

Course: PH38

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.

Course: PH38

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.

Course: PH38 Prerequisites: 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. Related to topics introduced in PHB276.

Course: PH38

Credit Points: 4 Contact Hours: 2 per week

## ■ PHB286 TREATMENT PLANNING 1

Introduction to the techniques of radiotherapy treatment planning.

Course: PH38

Credit Points: 12 Contact Hours: 6 per week

## ■ PHB287 MEGAVOLTAGE THERAPY 1

Introduction to the basic techniques of radiotherapy including beam direction and defining devices.

Course: PH38 Prerequisites: PHB125, PHB178

Credit Points: 6 Contact Hours: 3 per week

## ■ PHB289 CLINICAL RADIOTHERAPY 1

Practical programs carried out in approved clinical departments. Related to topics introduced in PHB287.

Course: PH38

Credit Points: 4 Contact Hours: 2 per week

## ■ PHB313 RADIOGRAPHIC IMAGE INTERPRETATION

Image formation in medical radiography, and the significance of diagnostic techniques and their image appearances in assessment of the lower extremity.

Course: PU45

Credit Points: 8 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.

Courses: ED50, SC30

Co-requisite: MAB432

Prerequisites: MAB222, PHB122, PHB222

Credit Points: 12 Contact Hours: 5 per week

## ■ PHB332 PHYSICS 3B

Covers any two of the following: optics, electronics, materials, experimental physics.

Courses: ED50, SC30

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.

Course: OP42

Prerequisites: PHB222, PHB240

Credit Points: 12 Contact Hours: 7 per week

## ■ PHB342 PHYSICS 3C

See PHB332.

Courses: ED50, SC30

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.

Courses: ED50, SC30

Prerequisite: At least four level 1 units, 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.

Course: PH38

Credit Points: 4 Contact Hours: 2 per week

**■ PHB374 RADIOGRAPHIC EQUIPMENT 1**

Discussion of design considerations of X-ray generators and equipment for control of beam direction.

Course: PH38

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 using contrast media.

Course: PH38

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.

Course: PH38

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.

Course: PH38

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 and electron therapy.

Course: PH38

Credit Points: 8 Contact Hours: 4 per week

**■ PHB387 MEGAVOLTAGE THERAPY 2**

The principles and applications of megavoltage therapy including techniques for specific sites.

Course: PH38

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 clinical departments.

Course: PH38

Prerequisites: PHB289, PNB225

Co-requisite: PHB387

Credit Points: 10 Contact Hours: 5 per week

**■ PHB404 SAFETY TECHNOLOGY 2**

Vibration and noise, electrical hazards, sources and hazards of ionising and non-ionising radiation.

Course: PU44

Prerequisite: PHB250 or PHB262

Credit Points: 12 Contact Hours: 6 per week

**■ PHB422 PHYSICS 4A**

Any two of the following: thermodynamics and statistics, mechanics, radiation physics, astronomy and astrophysics, relativity and fluids, electronics.

Courses: ED50, SC30

Prerequisites: PHB122, PHB222 and (MAB212 or MAB222)

Credit Points: 12 Contact Hours: 5 per week

**■ PHB432 PHYSICS 4B**

See PHB422.

Courses: ED50, SC30

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.

Courses: ED50, SC30

Prerequisites: PHB122, 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.

Courses: ED50, SC30

Prerequisite: PHB352

Credit Points: 12 Contact Hours: 5 per week

**■ PHB462 EXPERIMENTAL PHYSICS 4**

Experimental method and design; electronics; preparation and presentation of reports; group project.

Course: SC30

Prerequisite: At least two level 2 Physics units

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 units of the course.

Course: PH38

Credit Points: 4 Contact Hours: 2 per week

**■ PHB473 MEDICAL ULTRASOUND**

The physical principles and application of ultrasound.

Course: PH38

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.

Course: PH38

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.

Course: PH38

Credit Points: 8 Contact Hours: 3 per week

**■ PHB476 SPECIAL PROCEDURES**

Specialised techniques of radiography: the skull, obstetrics, gynaecology, CNS and paediatrics.

Course: PH38

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.

Course: PH38

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.

Course: PH38

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.

Course: PH38

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.

Course: PH38

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.

Course: PH38 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.

Course: PH38 Prerequisites: PHB387, PHB389

Co-requisite: PHB487

Credit Points: 8 Contact Hours: 4 per week

#### ■ PHB512 PROJECT

Projects are undertaken in a wide range of topics normally submitted by staff. They are commonly related to School of Physics research activities in materials science, health and medical physics and instrumentation, and may involve an extension of existing knowledge and technique or an introductory investigation into a new procedure.

Courses: ED50, SC30

Prerequisite: At least 3 third level Physics units.

Credit Points: 12 Contact Hours: 5 per week

#### ■ PHB522 APPLIED QUANTUM MECHANICS

Schrödinger equation, potential wells, hydrogen atom, angular momentum, perturbation theory, atomic and molecular spectra, Zeeman effects, line broadening phenomena, spectroscopy, lasers.

Course: SC30

Prerequisites: MAB432, MAB452, PHB322

Credit Points: 12 Contact Hours: 5 per week

#### ■ PHB532 ELECTROMAGNETIC FIELD THEORY

Static field theory: electric and magnetic fields. Solution of problems by analytic and non-analytic methods. Dielectrics. Magnetic materials. Electromagnetic wave theory: time-varying fields, Maxwell's equation, displacement current, electromagnetic energy density. Wave equation and solutions, boundary conditions, reflection and refraction of waves. Wave guides and radiation theory.

Course: SC30 Prerequisites: PHB322, MAB452

Credit Points: 12 Contact Hours: 5 per week

#### ■ PHB542 APPLIED ACOUSTICS

Environmental and occupational noise. Architectural and building acoustics. Generation and detection of ultrasound; applications in medicine and industry fields.

Courses: ED50, SC30

Prerequisite: Second level Acoustics

Credit Points: 12 Contact Hours: 5 per week

#### ■ PHB552 ELECTRONICS 3

A program of lectures and laboratory work on the following topics: Interfacing to microprocessors and pc's, control of peripheral devices, computer languages. Control systems, telemetry and recording devices. Data collection and logging. Analog and digital signal processing. Industrial visits.

Courses: ED50, SC30

Prerequisite: PHB452

Credit Points: 12 Contact Hours: 5 per week

#### ■ PHB562 PHYSICAL METHODS OF ANALYSIS

X-ray diffraction: qualitative and quantitative analysis, texture and stress analysis. X-ray fluorescence. Electron microscopy: transmission electron microscopy, scanning electron microscopy, electron probe microanalysis. Theory, instrumentation and application of atomic emission and absorption spectroscopy, mass spectrometry and gas chromatography, infra-red and Raman spectroscopy, nuclear magnetic resonance spectroscopy and surface analysis techniques (Auger electron spectroscopy, x-ray photoelectron spectroscopy, secondary ion mass spectrometry).

Courses: ED50, SC30

Prerequisite: PHB342

Credit Points: 12 Contact Hours: 5 per week

#### ■ PHB572 IMAGE RECORDING & EVALUATION

Lectures and practical exercises on non-film image formation evaluation. Information theory.

Course: PH38

Credit Points: 4 Contact Hours: 2 per week

#### ■ PHB573 DIGITAL IMAGING MODALITIES

The principles, methods and applications of CT, digital radiography and MRI in medical imaging.

Course: PH38

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.

Course: PH38

Credit Points: 6 Contact Hours: 3 per week

#### ■ PHB575 MEDICAL RADIATION COMPUTING 2

Applications of computers in image processing and radiotherapy.

Course: PH38

Credit Points: 8 Contact Hours: 3 per week

#### ■ PHB576 ADVANCED RADIOGRAPHIC TECHNIQUE 1

A study of the principles and techniques used in advanced radiographic techniques including angiography, the salivary glands, arthrography, sinography, arteriography and venography.

Course: PH38

Prerequisites: PHB476, PHB479

Co-requisite: PHB578

Credit Points: 12 Contact Hours: 6 per week

#### ■ PHB578 IMAGE INTERPRETATION 1

Lectures and practical exercises on image interpretation including technical and diagnostic quality.

Course: PH38

Credit Points: 4 Contact Hours: 2 per week

#### ■ PHB579 CLINICAL RADIOGRAPHY 4

Clinical experience in special radiographic procedures as introduced in PHB476.

Course: PH38

Prerequisites: PHB476, PHB479

Credit Points: 8 Contact Hours: 4 per week

#### ■ PHB583 COMPLEMENTARY & EVOLVING TECHNIQUES

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.

Course: PH38

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.

Course: PH38

Credit Points: 4 Contact Hours: 2 per week

**■ PHB585 COMPUTER ASSISTED TREATMENT PLANNING 1**

A study of planning hardware and software to include two-dimensional planning. Development of concepts to an advanced level of understanding of computer-assisted optimisation of isodose distributions.

Course: PH38

Credit Points: 8 Contact Hours: 3 per week

**■ PHB587 ORTHOVOLTAGE & SUPERFICIAL THERAPY**

The specialised techniques of orthovoltage and superficial radiotherapy.

Course: PH38 Prerequisites: PHB487, PHB489

Credit Points: 10 Contact Hours: 4 per week

**■ PHB589 CLINICAL RADIOTHERAPY 4**

Clinical experience in the techniques of radiotherapy employing orthovoltage and superficial therapy.

Course: PH38 Prerequisites: PHB487, PHB489

Co-requisite: PHB587

Credit Points: 12 Contact Hours: 6 per week

**■ PHB622 SOLID STATE PHYSICS**

Crystal structures and bonding, reciprocal lattice, Brillouin zones; mechanical and thermal properties of solids; free electron and band theory; semiconductors; magnetic properties of solids; dielectric properties of materials; amorphous materials.

Course: SC30

Prerequisite: Second level Materials, PHB422, PHB522

Credit Points: 12 Contact Hours: 5 per week

**■ PHB632 NUCLEAR & PARTICLE PHYSICS**

Nuclear reaction, nuclear model, particle physics, particle detectors and accelerators and applications.

Course: SC30 Prerequisites: PHB432, PHB522

Credit Points: 12 Contact Hours: 5 per week

**■ PHB642 APPLIED RADIATION & HEALTH PHYSICS**

Lectures and laboratory work on the topics: properties of ionising and non-ionising radiation. Detection and measurement techniques. Radiobiological effects of ionising and non-ionising radiation and health physics. Medical and industrial applications of radiation. Environmental radiation and radioactivity.

Course: SC30 Prerequisite: PHB432

Credit Points: 12 Contact Hours: 5 per week

**■ PHB662 TOPICS IN PHYSICS**

The content varies from year to year and is determined by current research advances and availability of staff. No more than four topics are included, so as to allow a reasonable cover of the material. Topics included in recent years: health and medical physics, optoelectronics, geophysics, environmental physics and astrophysics.

Courses: ED50, SC30

Prerequisite: At least 36 credit points in second level physics units

Credit Points: 12 Contact Hours: 5 per week

**■ PHB671 RADIATION BIOLOGY**

A study of the biological effects on ionising and non-ionising radiation.

Course: PH38

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.

Course: PH38

Credit Points: 8 Contact Hours: 3 per week

**■ PHB676 ADVANCED RADIOGRAPHIC TECHNIQUE 2**

An extension of topics in advanced radiographic technique introduced in PHB576 to include mammography, techniques for examination of the lymphatic system, and emerging techniques.

Course: PH38 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.

Course: PH38 Prerequisites: PHB576, PHB579

Credit Points: 14 Contact Hours: 6 per week

**■ PHB680 NUCLEAR MEDICINE IMAGING 2**

Lectures, practical exercises and clinical experiences in nuclear medicine imaging. This unit expands on topics introduced in PHB373 and provides an indepth study of nuclear medicine imaging techniques.

Course: PH38

Prerequisite: PHB373

Credit Points: 10 Contact Hours: 5 per week

**■ PHB681 COMPUTED TOMOGRAPHY IMAGING**

Lectures, practical exercises and clinical experiences in CT imaging; expands on topics introduced in PHB573; indepth study of CT imaging techniques.

Course: PH38

Prerequisite: PHB573

Credit Points: 10 Contact Hours: 5 per week

**■ PHB683 ONCOLOGICAL IMAGING**

Principles and techniques of medical imaging used in the detection of cancer: CT, MRI, U/S and NM.

Course: PH38

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, three-dimensional plans.

Course: PH38

Credit Points: 8 Contact Hours: 4 per week

**■ PHB687 SPECIALISED RADIOTHERAPY TECHNIQUE**

Specialised radiotherapy techniques including techniques applicable to the child patient and patients with communicable disease, theatre procedures, total body photon and electron therapy.

Course: PH38

Credit Points: 10 Contact Hours: 4 per week

**■ PHB689 CLINICAL RADIOTHERAPY 5**

Clinical experience in specialised radiotherapy treatment techniques.

Course: PH38

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.

Course: SC60

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.  
Course: SC60  
Credit Points: 12      Contact Hours: 4 per week
- **PHB703 TOPICS IN MEDICAL PHYSICS 3**  
Principals and instrumentation of radiation dosimetry; radiobiology.  
Course: SC60  
Credit Points: 12      Contact Hours: 4 per week
- **PHB704 TOPICS IN MEDICAL PHYSICS 4**  
Clinical radiotherapy; advanced radiobiology.  
Course: SC60  
Credit Points: 12      Contact Hours: 4 per week
- **PHB705 PROJECT (MEDICAL PHYSICS MAJOR)**  
A research project in which the student will initiate and undertake an investigation of some magnitude and originality. Topics will be related to research interests in the Centre for Medical and Health Physics.  
Course: SC60      Credit Points: 48
- **PHN101 ANALOGUE ELECTRONICS**  
Principles of electronics applicable in the medical field; discrete circuits and integrated circuits in common use; design and limitations.  
Course: PH80  
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.  
Course: PH80  
Credit Points: 6      Contact Hours: 2 per week
- **PHN103 RADIATION PHYSICS 1**  
Basic principles of radioactivity and radioactive decay; interactions of ionising radiation with matter.  
Course: PH80  
Credit Points: 6      Contact Hours: 2 per week
- **PHN104 RADIATION PHYSICS 2**  
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.  
Course: PH80  
Credit Points: 8      Contact Hours: 3 per week
- **PHN152 CROSS-SECTIONAL ANATOMY**  
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.  
Course: PH80  
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 transducers control; display; image performance and artefacts.  
Course: PH80  
Credit Points: 6      Contact Hours: 2 per week

- **PHN154 PRINCIPLES OF ULTRASOUND IMAGING**  
General principles of ultrasound imaging techniques including scanning motions, coupling agents, transducer selection and respiration problems.  
Course: PH80      Co-requisite: PHN153  
Credit Points: 6      Contact Hours: 2 per week
- **PHN155 ULTRASONIC EXAMINATION IN OBSTETRICS/GYNAECOLOGY**  
The normal and abnormal anatomy and functions related to gynaecology and obstetrics, the ultrasonic techniques used and the appearance of related images.  
Course: PH80  
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.  
Course: PH80      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.  
Course: PH80      Co-requisites: PHN153, PHN154  
Credit Points: 12
- **PHN202 BIOMECHANICS**  
The principles and properties related to human tissues and physiological functions with emphasis on work ergonomics, occupational and physiological health measurement problems.  
Course: PH80  
Credit Points: 8      Contact Hours: 3 per week
- **PHN204 HEALTH & OCCUPATIONAL PHYSICS**  
The philosophy, protocol and practices necessary to minimise hazards associated with electrical, mechanical and biological techniques used in hospitals. The principles and techniques of dosimetry of ionising radiation with emphasis on aspects pertinent to actual or potential use in medicine.  
Course: PH80  
Credit Points: 8      Contact Hours: 3 per week
- **PHN206 MEDICAL IMAGING**  
The principles involved in the production of the radiographic and nuclear medicine images and the appropriate quality control protocols.  
Course: PH80  
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.  
Course: PH80      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.  
Course: PH80  
Credit Points: 8      Contact Hours: 3 per week

**■ PHN302 INSTRUMENTATION**

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, medical applications of numerical methods; medical statistics.

Course: PH80

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.

Course: PH80

Credit Points: 6 Contact Hours: 2 per week

**■ PHN351 ULTRASOUND EQUIPMENT 2**

Lectures and practical exercises on the principles and techniques of quality assurance protocols used in ultrasonic imaging.

Course: PH80

Credit Points: 6 Contact Hours: 2 per week

Prerequisite: PHN153

**■ 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.

Course: PH80

Credit Points: 6 Contact Hours: 2 per week

**■ PHN353 ULTRASOUND IN MEDICAL DIAGNOSIS**

The role of ultrasound in medical imaging diagnosis.

Course: PH80

Credit Points: 6 Contact Hours: 2 per week

**■ PHN354 ULTRASONIC EXAMINATIONS OF THE HEAD, NECK & PERIPHERAL ORGANS**

Ultrasound techniques used to examine the head, neck and peripheral organs and the ultrasonic appearance of normal and abnormal anatomy and pathology.

Course: PH80

Credit Points: 6 Contact Hours: 2 per week

Prerequisite: PHN257

**■ 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.

Course: PH80

Credit Points: 12 Contact Hours: 2 per week

Prerequisite: PHN257

**■ PHN402 RADIOTHERAPY**

The principles and techniques of clinical application of ionising radiation for therapeutic purposes: radiotherapy physics and diabrachy therapy.

Course: PH80

Credit Points: 6 Contact Hours: 2 per week

**■ PHN405 PHYSIOLOGICAL MEASUREMENT**

The principles and techniques of the direct and indirect measurement of physiological variables.

Course: PH80

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.

Course: PH80

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.

Course: PH80

Credit Points: 48 (FT) and 24 (PT) per semester

Contact Hours: 18 (FT) and 9 (PT) per week

**■ PHS021 INTRODUCTORY PHYSICS**

Intended to give a grounding in basic physics topics selected from the following areas: mechanics, heat, electricity, and magnetism and light. Note: This unit is not compatible with Senior Physics.

Course: BN10

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.

Course: BN30

Credit Points: 6 Contact Hours: 3 per week

**■ PLB113 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.

Course: BN30

Credit Points: 4 Contact Hours: 2 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.

Course: BN30

Credit Points: 2 Contact Hours: 1 per week

**■ PLB140 INTRODUCTORY DESIGN 1**

See ARB140.

Course: BN30

Credit Points: 12 Contact Hours: 6 per week

**■ PLB141 THE HUMAN ENVIRONMENT 1**

See ARB141.

Course: BN30

Credit Points: 4 Contact Hours: 2 per week

**■ PLB200 INTRODUCTORY DESIGN 2**

Studio work; simple three dimensional design tasks at a variety of scales, and illustrating tasks associated with the relevant professions. Workshop and field work related to studio exercises. Techniques of oral and written presentation, report writing, use of English as applicable to the relevant professions.

Course: BN30

Credit Points: 20 Contact Hours: 10 per week

Prerequisite: PLB140

**■ 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.

Course: BN30

Credit Points: 6 Contact Hours: 2 per week

**■ PLB209 APPLIED LAND SCIENCE FOR DESIGNERS**

This unit 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.

Course: BN30

Credit Points: 4 Contact Hours: 1 per week

**■ PLB241 HISTORY OF THE BUILT ENVIRONMENT 2**

See ARB241.

Course: BN30

Credit Points: 8 Contact Hours: 3 per week

**■ PLB300 PLANNING & LANDSCAPE DESIGN 1**

Site planning and problem solving theory; studio exercises developing the capacity to analyse the nature and use of spaces and to understand the role of creative expression in design; formal oral presentation techniques (informal and persuasive) including meetings, conferences, interviews and speeches.

Course: BN30

Prerequisites: ARB140 or PLB140, ARB141 or PLB141, PLB113, PLB200, PLB209

Credit Points: 21 Contact Hours: 9 per week

**■ PLB301 THE HUMAN ENVIRONMENT 3**

Role of social, cultural, and historical variables in human-environment interactions. 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.

Course: BN30

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.

Course: BN30

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. Powers, responsibilities and day-to-day activities of landscape architects and urban and regional planners.

Course: BN30

Credit Points: 3 Contact Hours: 1 per week

**■ PLB345 INTRODUCTION TO ECOLOGY**

Concepts of plant science and ecology which form the basic understanding necessary for design in dynamic biophysical environments; the biological world, at whatever scale of analysis we use - individual, species, population or community - is responsive in its form and function to the influences of the environment in which it lives. Through understanding the processes which regulate the impact of environment it is possible to interpret patterns in the landscape, predict change and design form and function.

Course: BN30

Credit Points: 8 Contact Hours: 4 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.

Course: BN30 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; integrates issues covered in PLB300 with the technical and practical aspects of site planning and design.

Course: BN30

Prerequisites: PLB300, PLB301

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.

Course: BN30

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; students are given the opportunity to conduct experiments and test models.

Course: BN30

Prerequisites: ARB140, CHB204, PHB144, PLB200, PLB209

Credit Points: 4 Contact Hours: 2 per week

**■ PLB409 COMPUTER TECHNIQUES**

Development of understanding, awareness, and appreciation 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.

Course: BN30 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.

Course: BN30

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.

Course: BN30

Credit Points: 6 Contact Hours: 3 per week

#### ■ PLB440 INTRODUCTION TO ECONOMICS

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 unit deals with microeconomic concepts. The market system and associated concepts of demand, supply and price equilibrium.

Courses: BN30, CN32

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.

Courses: BN30, CN32

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.

Course: BN30

Credit Points: 2 Contact Hours: 1 per week

#### ■ PLB500 PLANNING & LANDSCAPE DESIGN 3

This unit 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.

Course: BN30

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; site stormwater drainage, water and electrical services; applied systems, including paving, etc.

Course: BN30

Prerequisite: PLB340

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.

Course: BN30

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.

Course: BN30

Credit Points: 4 Contact Hours: 2 per week

#### ■ PLB561 ECONOMICS OF TOWN PLANNING

This unit is essentially microeconomic; introduces urban economics and the economic aspects of town planning issues; provides techniques for economic analysis suited to planning needs; illustrates interactions with employment, industry, population and urban studies at the economic interface.

Course: BN30

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.

Course: BN30 Prerequisites: COB163, 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.

Course: BN30

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.

Course: BN30

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 environment and technology study areas. The three projects for the semester focus on the development of a significant urban area.

Course: BN30

Prerequisites: PLB400, PLB408, PLB411,

PLB414, PLB511

Credit Points: 20 Contact Hours: 6 per week

#### ■ PLB640 PLANTING DESIGN

Design characteristics and criteria. 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 schemes such as streets, highways, parks, urban forecourts and interior landscapes, gardens and broadscale regeneration and stabilisation.

Course: BN30

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.

Course: BN30

Prerequisites: Completion of years 1 and 2

Credit Points: 2

Contact Hours: 1 per week

#### ■ PLB645 GRADING

Techniques of land surface manipulation including construction of platforms for building, carparks, sports ovals etc. and 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.

Course: BN30

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; the requirements of community, public and utility services.

Course: BN30

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.

Course: BN30

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.

Course: BN30

Credit Points: 2

Contact Hours: 1 per week

#### ■ PLB651 ELECTIVE UNIT – LANDSCAPE ARCHITECTURE

Final year students are required to undertake a minimum of two hours of elective units. The elective unit may be taken in either semester or spread across both semesters depending on unit choice.

Course: BN30

Prerequisites: Completion of years 1 and 2

Credit Points: 4

Contact Hours: 2 per week

#### ■ PLB654 ELECTIVE UNIT – PLANNING

Any approved unit 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 unit may be selected from courses offered by QUT's other faculties or by another approved university.

Course: BN30

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.

Course: BN30

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.

Course: BN30

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.

Course: CN32

Credit Points: 4

Contact Hours: 2 per week

#### ■ PLN101 URBAN DESIGN ANALYSIS STUDIO

This unit emphasises the development of skills in analysis related to the urban design process and adequate communication of the results.

Courses: BN73, PL69

Credit Points: 12

Contact Hours: 3 per week

#### ■ PLN102 URBAN DESIGN CONTEXT STUDIO

Students 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 standards. Positive planning and the use of incentives for good design: bonuses, transferable rights, advance publication of permissible development, rapid decisions, early dissemination of information. Work in other units of study will be related to this unit.

Courses: BN73, PL69

Credit Points: 12

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 unit.

Courses: BN73, PL69

Credit Points: 12 Contact Hours: 3 per week

**■ PLN105 URBAN DESIGN FIELD STUDIES**

This unit 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 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.

Courses: BN73, PL69

Credit Points: 4

Contact Hours: Approx 10 day field trip.

**■ PLN111 COMPARATIVE PLANNING THEORY**

Roles of planners: statutory, pluralist, advocate, consultants; 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.

Courses: BN73

Credit Points: 8 Contact Hours: 2 per week

**■ PLN112 CONCENTRATION STUDIES**

In consultation with the course coordinator, and 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. Students 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.

Courses: BN73

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.

Courses: BN73

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.

Courses: BN73, PL69

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 Brisbane.

Courses: BN73

Credit Points: 16 Contact Hours: 3 per week

**■ PLN121 PLANNING THESIS**

The thesis is normally required to be 30-50,000 words in length, and is related to the Concentration Studies and Option Project chosen by the student. 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.

Courses: BN73

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. Master of Built Environment students are expected to attend and to participate fully in the discussions.

Courses: BN73

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 schemes; economic transformations; the future of urban-rural relations in developing countries.

Courses: BN73

Credit Points: 8 Contact Hours: 2 per week

**■ PLN124 OPTION COURSE**

This course is developed by senior academic staff in response to matters of current significance; there are also opportunities to select appropriate elective courses from elsewhere within and outside QUT.

Courses: BN73

Credit Points: 8 Contact Hours: 2 per week

**■ PLN201 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.

Courses: BN73, PL69

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.

**Courses:** BN73, PL69

**Credit Points:** 4 **Contact Hours:** 1 per week

#### ■ PLN250 MASTERS STUDIO

Students select a specific studio 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 input on advanced aspects and concepts.

**Course:** BN73

**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.

**Course:** BN73

**Credit Points:** 4 **Contact Hours:** 1 per week

#### ■ PLN252 ADVANCED PRACTICE 2

See PLN251.

**Course:** BN73

**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.

**Course:** BN73

**Credit Points:** 4 **Contact Hours:** 1 per week

#### ■ PLN254 PROFESSIONAL SEMINARS

This unit 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.

**Course:** BN73

**Credit Points:** 8 **Contact Hours:** 2 per week

#### ■ PLN255 CONCENTRATION STUDIES A

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 units offered outside the major or a specified reading/research program under tutorial guidance.

**Courses:** BN73, PL69

**Credit Points:** 4 **Contact Hours:** 1 per week

#### ■ PLN256 CONCENTRATION STUDIES B

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.

**Courses:** BN73, PL69

**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.

**Course:** BN73

**Credit Points:** 4 **Contact Hours:** 1 per week

#### ■ PLN258 DISSERTATION

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.

**Course:** BN73

**Credit Points:** 24 **Contact Hours:** 6 per week

#### ■ PLN302 URBAN LANDSCAPE

The city as a landscape unit, 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; 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, their requirements, streets, plazas, forecourts, roofs, urban forests, natural areas; water bodies and their conservation as healthy features; urban wildlife: habitats and contribution to the urban experience; landscape conservation techniques in urban areas.

**Courses:** BN73, PL69

**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 different systems and traffic channels. Future trends in transport and movement systems and related issues.

**Courses:** BN73, PL69

**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.

Courses: BN73, PL69

Credit Points: 4 Contact Hours: 1 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.

Courses: BN73, PL69

Credit Points: 4 Contact Hours: 1 per week

**■ PLN501 DISSERTATION**

The dissertation provides the student with the opportunity to innovatively pursue in depth an issue or problem within their 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.

Course: BN73

Credit Points: 24

**■ PLP202 RESIDENTIAL LANDSCAPE DESIGN**

Theory: Introduction to the range of housing and subdivision types; consequences for design; controls, by-laws, standards, and regulations; relevant overseas, Australian, and local examples; residents' expectations and development of attitudes to suburban and urban living; design considerations. Studio: intensive program requiring group and individual work; critique; subdivision layouts; detailed setting/use design within specific development type.

Course: PL66

Prerequisite: PLP507

Credit Points: 12 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.

Course: PL66

Prerequisite: PLP507

Credit Points: 12 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.

Course: PL66

Prerequisite: PLP507

Credit Points: 12 Contact Hours: 4 per week

**■ PLP205 LANDSCAPE DESIGN**

Cultural Values: concepts of garden, landscape, environment; landscape as art or artefact; fine arts tradition; iconography; picturesque and gardenesque influences; environmental romanticism; functionalism, symbolism, and meaning; quantification of aesthetic and personal response. Studio: design problems of increased scope, complexity, and constraint; resolution at broad scale; contextual concepts; detailed resolution; professional communication.

Course: PL66

Prerequisite: PLP202, PLP203

Credit Points: 18 Contact Hours: 5 per week

**■ PLP210 LANDSCAPE MANAGEMENT A**

Horticulture, urban horticulture, arboriculture, landscapes: production of plant material; standards; site preparation; planting and establishment (including grasses); plant management; bushland management; regeneration techniques; pests, diseases, and their control; monitoring and maintenance programming. Relationship between management and construction: created/dependent and constructed landscapes; specifying and programming construction and management as part of design implementation; specialisations and appropriate case studies.

Course: PL66

Credit Points: 6 Contact Hours: 4 per week

**■ PLP212 ADVANCED LANDSCAPE GRAPHICS**

Variety of techniques of presentation graphics; three-dimensional presentation in Drawn and Modelling Forms; animation additions to presentation drawings; section and perspective exploration for design and detail communication; visual presentation packages suited to particular client types.

Course: PL66

Prerequisite: PLP520

Credit Points: 6 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.

Course: PL66

Credit Points: 3 Contact Hours: 7-10 days

**■ PLP216 COMPUTER AIDED DATA ANALYSIS**

The development of skills and application of computer aided data analysis in landscape architecture. The emphasis is on building graphical data and at-

tribute data skills; database management software; input and manipulation of data; development of graphic skills using the Autocad system.

**Courses:** BN73, BN75, PL69

**Credit Points:** 2      **Contact Hours:** 1 per week

### ■ PLP218 ADVANCED LANDSCAPE CONSTRUCTION 1

### ■ PLP219 ADVANCED LANDSCAPE CONSTRUCTION 2

Landscape Construction: platforms; land stability and stabilisation; clearing; demolition; earth dams; lakes; broadscale stormwater drainage; sporting facilities; irrigation. Engineering services and structures: subdivision engineering; hydrology; hydraulic structures; coastal engineering; water supply, sewerage; construction planning and control. Documentation: working drawings; specifications; bills; schedules; methods of production. Computer Support; database management software; Autocad graphics.

**Course:** PL66      **Prerequisite:** PLP523, PLP524  
**Credit Points:** 6 each unit

**Contact Hours:** 3 per week each unit

### ■ PLP220 LANDSCAPE MANAGEMENT B

Landscape Assessment: visual and scenic quality assessment; EIA components; current procedures and applications. Computer Techniques: types of GIS; potentials, problems, current issues; computerised three-dimensional modelling. Advanced Landscape Ecology: human settlement impact on structures; interactions; connectivity and dispersal; landscape and vegetation dynamics; conservation evaluation; habitat reconstruction. Rural Land Use: issues and systems; characteristics of rural settlement; catchment management; ecosystem protection. Resource Management: issues and systems; inventories and evaluation; conflict resolution; concept of sustainable development; conservation strategies; resource management policies.

**Course:** PL66      **Co-requisite:** PLP204  
**Prerequisite:** PLP514

**Credit Points:** 6      **Contact Hours:** 4 per week

### ■ PLP221 LANDSCAPE PRACTICE 1

Contracts: principles of contract law; forms of contract; standard conditions of contract and engagement; specific requirements of contract documents. Forum/Workshop: discussions structured around topical issues as debates, panels, or seminars involving visiting specialists and/or participants.

**Course:** PL66      **Prerequisite:** PLP526  
**Credit Points:** 6      **Contact Hours:** 2 per week

### ■ PLP222 LANDSCAPE PRACTICE 2

Practical experience: minimum of three weeks in approved landscape architectural office. Contracts: contract administration; case studies; professional presentation.

**Course:** PL66      **Prerequisite:** PLP221  
**Credit Points:** 3      **Contact Hours:** 2 per week

### ■ PLP401 RURAL LAND USE & PLANNING

Rural Land Use Patterns: The characteristics and dynamics of rural land uses - forestry, pastoral and arable agriculture, extractive industries, water collection, recreation and tourism, conservation systems. Impacts of rural resource developments. Rural planning and characterisations of rural settlements. The rural urban fringe. Rural issues, problems and conflicts. Case studies of rural land use, abuse and con-

servation in Australia and overseas. Associated project and field work.

**Course:** PL67

**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.

**Courses:** HL88, PL67

**Credit Points:** 4      **Contact Hours:** 1 per week

### ■ PLP404 THEORIES FOR PLANNING

The locus and exercise of power in society; structure of society with particular reference to Australia. The importance and development of social groups and classes. Ideas and theories in planning; theory as a basis for practice. The political and philosophical determinants of land use planning. Values in planning, models of human nature and planning's relationship to important value traditions: liberalism, utilitarianism, empiricism, idealism, socialism, conservatism. The concepts of the public interest, social justice and public intervention.

**Course:** PL67

**Credit Points:** 8      **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.

**Course:** PL67

**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; professional conflict; the role of the professional planner in public and private practice; office practice and procedures, filing, costing, control systems, preparation of briefs, estimating.

**Course:** PL67

**Credit Points:** 4      **Contact Hours:** 1 per week

### ■ PLP407 URBAN POLICY PROCESSES

The structure of the Australian federal system of government and the impact of this on the way cities are governed. This overview will include the roles of the three tiers of government, analysis of relevant aspects of the Constitution, the implications of Westminster conventions, the role of statutory authorities, and models of public policy making. The second major component of the course will be an investigation of the organisational and inter-organisational aspects of government, including theories of organisational culture and change, organisational structures, inter-organisational relations, and approaches to improving organisational performance.

**Course:** PL67

**Credit Points:** 8      **Contact Hours:** 2 per week

### ■ PLP411 PLANNING PRACTICE & LAW (URBAN)

This unit takes the form of a problem solving group project set in an inner metropolitan or small town

location, often undertaken in conjunction with local communities and councils. In the course of the project, which is accompanied by a series of lectures, the student group formulates policies and strategies relating to a specific urban area. Topics discussed are 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.

**Course:** PL67

**Credit Points:** 12      **Contact Hours:** 4 per week

#### ■ PLP412 PLANNING PRACTICE & LAW (REGIONAL & STRATEGIC)

Statutory basis of strategic planning; regional planning; the case of Queensland. Strategy and policy formulation in a group project in a specific region.

**Course:** PL67

**Credit Points:** 12      **Contact Hours:** 4 per week

#### ■ PLP413 REGIONAL PLANNING METHODS

Regionalism. Principles of regional planning. Roles and types of regional planning. Administration and organisation. Physical, ecological, economic, demographic and social analysis. Settlement patterns and hierarchies. The metropolitan region.

**Course:** PL67

**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 planning and management of regional landscapes in Australia and overseas. Policy studies of land and resource management schemes.

**Course:** PL67

**Credit Points:** 8      **Contact Hours:** 2 per week

#### ■ PLP415 RESEARCH METHODS & INDIVIDUAL PROJECT

Research as fun. Different approaches to research, and ways of selecting the most appropriate one. 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. Ways of presenting research findings. Preparation of an individual research study.

**Course:** PL67

**Credit Points:** 12      **Contact Hours:** 2 per week

#### ■ PLP416 URBAN POLICY IMPLEMENTATION

The role of implementation and evaluation in the urban policy process. The barriers to implementation and strategies for overcoming them. Methods for evaluating urban policies. Development of skills for improving implementation of urban policies, including conflict resolution and negotiation skills.

**Course:** PL67

**Credit Points:** 4      **Contact Hours:** 1 per week

#### ■ PLP418 COMPUTER APPLICATIONS IN PLANNING

Applies the introductory material in ISB183 to specific urban planning applications. This will include, but is not limited to use of spreadsheets for analysis and projection, linking spreadsheets to ABS

demographic data, applications of data bases, applications of GIS and use of purpose-designed programs.

**Course:** PL67

**Credit Points:** 4      **Contact Hours:** 2 per week

#### ■ PLP420 SCHOOL FIELD TRIP

One field course of approximately seven to ten days duration to provide a comparative dimension to students' studies and to develop skills in observation, data collection, recording and interpretation.

**Course:** PL67

**Credit Points:** 4      **Contact Hours:** 7-10 days

#### ■ 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 of cultural landscapes.

**Course:** PL66

**Credit Points:** 3      **Contact Hours:** 2 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 landscapes, gardens, and broadscale regeneration.

**Course:** PL66

**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.

**Courses:** BN73, PL66, PL69

**Credit Points:** 3      **Contact Hours:** 1 per week

#### ■ PLP506 USER & CHARACTER DESIGN STUDIES

Theory: open space and place theory; definition of spatial characteristics; sense of place, structure, form, and legibility; concepts of human functioning in environment; role of privacy, personal space, territorial behaviour; human adaptation to environment; evaluation and observation techniques. Studio: studies of spaces to determine user behaviour and requirements; analyses of inherent character and user needs and responses; abstractions expressing spirit of places.

**Course:** PL66

**Credit Points:** 12      **Contact Hours:** 6 per week

#### ■ PLP507 SITE PLANNING

Theory: processes of site planning and detailed site design; survey and analysis phases; information required; processing of data; data analysis; generation of solutions in conceptual form as basis for strategic planning; Studio: application of theory, principles, and techniques at all scales; site utilisation and selection; environmental and social implications of design decisions; siting and integrating activities, structures, and services; land form manipulation.

**Course:** PL66

**Credit Points:** 12      **Contact Hours:** 4 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.

**Course:** BN73, PL69

**Credit Points:** 4 **Contact Hours:** 2 per week

## ■ PLP512 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.

**Course:** PL66

**Credit Points:** 4 **Contact Hours:** 2 per week

## ■ PLP514 LANDSCAPE ECOLOGY 2

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.

**Course:** PL66

**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.

**Course:** PL66

**Credit Points:** 3 **Contact Hours:** 2 per week

## ■ PLP516 LANDSCAPE GRAPHICS 1

Lettering, layout, and visual themes in display communication; scale, emphasis, readability, and organisation of various types of information: photos, diagrams, text, 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.

**Course:** PL66

**Credit Points:** 6 **Contact Hours:** 3 per week

## ■ PLP520 LANDSCAPE GRAPHICS 2

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.

**Course:** PL66

**Credit Points:** 6 **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.

**Course:** PL66

**Credit Points:** 3 **Contact Hours:** 1 per week

## ■ PLP523 LANDSCAPE CONSTRUCTION 1

## ■ PLP524 LANDSCAPE CONSTRUCTION 2

Basic Site Measurement: equipment; techniques of use for horizontal and vertical measurement; recording of results; preparation of site drawings. 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. Grading: manual techniques of land surface manipulation for site uses including building platforms, carparks, sports ovals, and surface drainage. Technical Drawing and Documentation: establishment of sound techniques of technical drawing in the preparation of construction documents.

**Course:** PL66

**Credit Points:** 9 each subject **Contact Hours:** PLP523 4 per week, PLP524 3 per week

## ■ PLP525 INTRODUCTION TO PRACTICE 1

Concept of professionalism; current issues and controversies; roles and ranges of employment; the professional Institute; private and public practice responsibilities and activities; opportunities and potentials; associated professions; review of relevant laws, regulations, and their interpretation; overview of other aspects of 'environmental law'; formal oral communication techniques (meetings, conferences, interviews, presentations).

**Course:** PL66

**Credit Points:** 6 **Contact Hours:** 3 per week

## ■ PLP526 INTRODUCTION TO PRACTICE 2

Professional liability, design registration, copyrights; formal writing techniques (reports, instructions, proposals (plus CV/folio), correspondence, text for publication); report structuring; complementary use of graphic material; time and percentage measurement and costing of relevant professional services; units of management and costing of broad development types; techniques of cost control.

**Course:** PL66

**Credit Points:** 6 **Contact Hours:** 3 per week

## ■ PLP527 LANDSCAPE ECOLOGY 1

Plant science: plant systematics and taxonomy; classification; identification including field methods and

keys; familiarisation with commonly used species; physiological processes related to growth, stress, and diseases. Plant ecology: the organism as an ecological unit; concept of species; functional ecological units; populations; limiting factors; niche; resources, competition, and dynamics of plant communities; introduction to ecosystems and energy flows.

Course: PL66

Credit Points: 6      Contact Hours: 4 per week

### ■ PLP550 PLANNING PROCESSES

Art, Design and Science as creative processes. Knowledge, interpretation and prediction in planning and design. Public interest and individual preference. Values, activities and land use. Activity systems. Planning and design processes. Objectives, synthesis and analysis. Policy development and alternative strategies. Evaluation.

Course: PL67

Credit Points: 8      Contact Hours: 2 per week

### ■ 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.

Course: PL67

Credit Points: 7      Contact Hours: 2 per week

### ■ PLP553 SITE PLANNING METHODS

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 environment. Landscape evaluation techniques.

Course: PL67

Credit Points: 8      Contact Hours: 2 per week

### ■ PLP554 SITE PLANNING PRACTICE & LAW

Applications of site planning principles and theory at various scales. Natural and human influences in physical design. Environmental implications of site survey and analysis methods and techniques. Landform manipulation. Alternative concepts formulation and decision-making.

Course: PL67

Credit Points: 12      Contact Hours: 4 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.

Course: PL67

Credit Points: 8      Contact Hours: 2 per week

### ■ PLP558 POPULATION & URBAN STUDIES

Basic urban definitions, spread and characteristics of urbanisation, structure of cities, economic and social processes at work within cities, particular aspects such as housing and gentrification, basic concepts of population and demography, recent and historical analyses of the Australian population, familiarisation

with the role of ABS and with statistical and data analysis of population, world demographic trends.

Courses: HL88, PL67

Credit Points: 8      Contact Hours: 3 per week

### ■ PLP559 ENVIRONMENTAL IMPACTS

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. Environmental impact studies and assessment techniques.

Course: PL67

Credit Points: 4      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.

Course: PL67

Credit Points: 4      Contact Hours: 1 per week

### ■ PLP561 URBAN DESIGN METHODS

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.

Course: PL67

Credit Points: 4      Contact Hours: 1 per week

### ■ PLP562 ECONOMICS OF TOWN PLANNING

Land use allocation and location. Theories of urban growth. Economic aspects of planning issues. Analysis of communities and localities. Employment and the labour market. Land values, densities and patterns. Urban renewal. Costs and finance.

Course: PL67

Credit Points: 8      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.

Course: PL67

Credit Points: 4      Contact Hours: 1 per week

### ■ PLP565 URBAN LAND DEVELOPMENT

Structural and engineering design requirements in urban development - local physical services, roads and drainage, sewers, water, gas, electricity and Telecom service. Design and control systems, design standards, the effects of standardised requirements and alternative approaches. The roles of statutory authorities - gas, electricity, water, telephone, public transport, railways, waterways, road construction authorities. Development teams - the roles of associated disciplines - civil, municipal and transport engineers, earth and environmental scientist, and others. The role of the private developer.

Course: PL67

Credit Points: 4      Contact Hours: 1 per week

#### ■ PLP566 HOUSING & COMMUNITY SERVICES

Demographic change; household formation and characteristics; projection of housing stock, tenure, and roles of providers. Significant problems such as homelessness, housing related poverty and the special housing needs of vulnerable groups. Case study examples from interstate and overseas.

Courses: HL88, PL67

Credit Points: 6 Contact Hours: 2 per week

#### ■ PLP567 URBAN DESIGN PRACTICE

Projects involving individual and group work focussing on practical planning and design in a specific urban community. Practical residential subdivision.

Course: PL67

Credit Points: 12 Contact Hours: 3 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.

Course: PU42

Credit Points: 2 Contact Hours: 2 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.

Courses: NS40, NS48

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.

Course: PU48

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.

Course: ED40

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.

Course: ED40

Credit Points: 4 Contact Hours: 2 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.

Course: PU42

Credit Points: 12 Contact Hours: 4 per week

#### ■ PUB210 OCCUPATIONAL HEALTH & SAFETY 1

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.

Course: PU42

Credit Points: 8 Contact Hours: 4 per week

#### ■ PUB211 OCCUPATIONAL HEALTH & SAFETY 2

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.

Course: PU42

Prerequisite: PUB210 or PUB212

Credit Points: 8 Contact Hours: 4 per week

#### ■ PUB212 OCCUPATIONAL HEALTH & SAFETY 1

The basic concepts and theoretical framework of occupational health and safety as noted in PUB210; 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.

Course: PU44

Credit Points: 12 Contact Hours: 4 per week

#### ■ PUB220 MEDICAL TERMINOLOGY

Enables 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.

Course: PU48

Credit Points: 12 Contact Hours: 3 per week

## ■ PUB233 INFORMATION, EDUCATION & 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.

**Courses:** HM42, PU48

**Credit Points:** 12 **Contact Hours:** 3 per week

## ■ PUB241 HEALTH STUDIES 1

Overview the nature of health in Australian society; serves as the foundation study in this minor from which a number of separate, more detailed studies emerge in level 2 and 3 units; 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.

**Course:** ED41

**Credit Points:** 8 **Contact Hours:** 3 per week

## ■ PUB272 HOME ECONOMIC 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.

**Course:** PU49

**Credit Points:** 12 **Contact Hours:** 4 per week

## ■ PUB274 HOME ECONOMICS SOCIAL 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.

**Course:** PU49

**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.

**Course:** PU49

**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; 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.

**Course:** PU48

**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.

**Course:** PU42 **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.

**Course:** PU45

**Prerequisite:** LSB261

**Credit Points:** 8 **Co-requisite:** PUB303

**Contact Hours:** 4 per week

## ■ PUB303 CLINICAL SCIENCE 1

On completion, 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.

**Course:** PU45

**Prerequisite:** MEB031

**Credit Points:** 12 **Co-requisite:** PUB302

**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, 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.

**Course:** PU45

**Co-requisite:** PUB504, PUB410

**Credit Points:** 8 **Contact Hours:** 3 per week

## ■ PUB306 PHARMACOLOGY

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.

**Course:** PU45 **Prerequisite:** CHB242 or CHB289

**Co-requisite:** LSB371

**Credit Points:** 8 **Contact Hours:** 3 per week

## ■ PUB310 HOME ECONOMICS CURRICULUM & TEACHING STUDIES 1

Builds on PUB301 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.

**Course:** ED50

**Prerequisites:** PUB301 and at least 48 credit points in each relevant discipline area.

**Credit Points:** 8 **Contact Hours:** 3 per week

## ■ PUB312 HOME ECONOMICS CURRICULUM STUDIES 1

Provides students with a range of understandings and competencies for analysing, interpreting and managing Home Economics classrooms in order to maximise learning. Long and short term planning is explored with an emphasis on planning, implementing and evaluating lessons using a variety of strategies,

resources and assessment techniques. The nature of Home Economics and how this is manifest in curriculum documents are examined.

**Course:** ED50

**Prerequisite:** 48 credit points in relevant discipline area.

**Credit Points:** 12      **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; provides students with generic design knowledge as well as experience in the application of this knowledge in the specific areas of home economics.

**Course:** ED50

**Credit Points:** 12      **Contact Hours:** 3 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.

**Course:** ED50

**Credit Points:** 12      **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.

**Course:** ED50

**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.

**Course:** ED50

**Prerequisite:** PUB310

**Co-requisites:** CUB302, EDB302

**Credit Points:** 12      **Contact Hours:** 3 per week

#### **■ PUB321 TEXTILES 1**

Scientific understanding and aesthetic aspects of textiles, their selection, use and care, with reference to specific end uses; practical aspects of construction and surface design of textile articles; textile project.

**Course:** ED50

**Credit Points:** 12      **Contact Hours:** 6 per week

#### **■ PUB322 HOME ECONOMICS CURRICULUM STUDIES 2**

Encourages students to make independent judgements about Home Economics curriculum decision-making, within syllabus guidelines and broader systems policies concomitant with national and international trends in education and society. Students are given the opportunity to explore current issues and emerging and future trends in Home Economics and to develop a confident approach to school-based curriculum development. Advanced teaching strategies and current assessment procedures will be developed.

**Course:** ED50

**Prerequisite:** PUB312

**Credit Points:** 12      **Contact Hours:** 3 per week

#### **■ PUB323 HOME ECONOMICS: SOCIAL FOUNDATIONS**

Home economics is concerned with the well-being of individuals and families; 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; home economics issues.

**Course:** ED50

**Credit Points:** 12      **Contact Hours:** 3 per week

#### **■ PUB325 SHELTER STUDIES**

Critical aspects of shelter as a fulfilment of people's basic needs; design, technology and legislation linked to decisions affecting provision of shelter for the differing needs of individuals and families.

**Course:** ED50

**Credit Points:** 12      **Contact Hours:** 4 per week

#### **■ PUB327 HEALTH ISSUES IN AUSTRALIA**

Australians' major health concerns; the multidimensional nature of health; initiatives undertaken to address health problems at individual, community, and national levels; prevention as a pivotal concept in health status.

**Courses:** ED50, ED51

**Credit Points:** 12      **Contact Hours:** 3 per week

#### **■ PUB328 CONTEMPORARY INFLUENCES ON HEALTH STATUS**

Concept of contemporary social, economic and political influences on well-being; major, contemporary health concerns resulting from these influences.

**Courses:** PU49, ED50

**Credit Points:** 12      **Contact Hours:** 3 per week

#### **■ PUB329 FOUNDATIONS OF HEALTH STUDIES & HEALTH BEHAVIOUR**

The foundations of the discipline of health education, its theoretical framework and concepts of models of health, health education and health promotion.

**Course:** ED50

**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.

**Course:** ED50

**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.

**Course:** PU49, ED50

**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 technologi-



cal advances have had on this. It considers possible future shelter options given the impact of historical and cultural factors.

**Courses:** PU49, ED50 **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.

**Course:** ED50  
**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.

**Course:** ED50  
**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.

**Course:** ED50  
**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.

**Course:** ED50 **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.

**Course:** ED50  
**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ PUB340 HEALTH EDUCATION CURRICULUM & 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.

**Course:** ED50  
**Prerequisites:** Introduction to Curriculum and Teaching Studies and at least 48 credit points in each relevant discipline area.

**Credit Points:** 8 **Contact Hours:** 3 per week

### ■ PUB345 FAMILY RELATIONSHIPS

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 and dynamics which operate between individuals.

**Course:** ED50 **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 family issues.

**Course:** PU49, ED50  
**Credit Points:** 12 **Contact Hours:** 4 per week

### ■ PUB349 FAMILIES & HOUSEHOLDS IN AUSTRALIA

The unit examines the emphasis of the family in home economics. Perspectives considered include: structural functionalist, symbolic interactional, conflict and feminist, whether the family provides an appropriate orientation for home economics.

**Course:** ED50  
**Credit Points:** 12 **Contact Hours:** 4 per week

### ■ PUB350 HEALTH EDUCATION 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, it establishes principles used to guide school experience during teaching practice and also as a beginning teacher.

**Course:** ED50 **Prerequisite:** PUB340  
**Co-requisites:** CUB302, 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.

**Courses:** ED50, SC30  
**Prerequisite:** Any Level 1 Science unit  
**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.

**Courses:** PU49, ED50 **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.

**Course:** ED50  
**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.

**Course:** ED50

**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.

**Course:** ED50

**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.

**Course:** ED50

**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.

**Courses:** ED26, ED50

**Credit Points:** 12 **Contact Hours:** 3 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.

**Course:** PU49 **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.

**Course:** PU49

**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.

**Course:** PU49

**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.

**Course:** PU49

### ■ PUB381 INTRODUCTION TO APPAREL DESIGN & PRODUCTION

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.

**Course:** ED50

**Prerequisite:** PUB361

**Credit Points:** 12 **Contact Hours:** 4 per week

### ■ PUB393 HOME ECONOMICS - SOCIAL FOUNDATIONS

This subject will be offered in 1993 only. Unit description (see PUB323)

**Course:** ED50

**Credit Points:** 8 **Contact Hours:** 3 per week

### ■ PUB395 SHELTER STUDIES

This subject will be offered in 1993 only. Unit description (see PUB325)

**Course:** ED50

**Credit Points:** 8 **Contact Hours:** 3 per week

### ■ PUB399 HEALTH INFORMATION MANAGEMENT 2

Provides 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.

**Course:** PU48 **Prerequisites:** PUB299, 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.

**Course:** PU45

**Prerequisite:** PUB303

**Co-requisite:** PUB303

**Credit Points:** 12 **Contact Hours:** 9 per week

### ■ PUB405 HUMAN NUTRITION 2

Human nutrition provides a solid basis of nutrition knowledge upon which studies in nutrition may be built. It examines the sociology of food in providing required nutrients, and gives an indepth explanation, at a biochemical level, of the role of nutrients.

**Course:** SC30

**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.

**Course:** PU45

**Prerequisites:** LSB470, LSB451

**Co-requisite:** PUB503

**Credit Points:** 8 **Contact Hours:** 3 per week

### ■ PUB411 ORTHOPAEDICS

Emphasis on orthopaedic surgery; develops a detailed knowledge of general and specific orthopaedic condi-

tions which have an effect on the lower limbs and the surgical treatment of systemic conditions as seen by the podiatrist, ie. diabetes; 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.

**Course:** PU45 **Prerequisites:** PUB503, PHB313  
**Co-requisite:** PUB505  
**Credit Points:** 8 **Contact Hours:** 3 per week

#### ■ PUB414 HOME ECONOMICS APPLIED CURRICULUM

Issues relating to home economics education; bases for curriculum decision making; nature and structure of home economics; syllabus implementation; innovation; issues that affect home economics.

**Course:** ED26

**Prerequisites:** CUB410 or equivalent and curriculum implementation studies at Diploma of Teaching level.  
**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ PUB416 OCCUPATIONAL HEALTH & SAFETY PROJECT

This major project gives students an opportunity to research a particular aspect of their theoretical or practical studies, and thereby develop their research techniques, data collection and evaluation skills and ability to work independently under supervision. By submission of a written project report, they will draw upon skills developed throughout the course.

**Course:** PU65 **Credit Points:** 12

#### ■ 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.

**Course:** PU45

**Prerequisite:** PUB302 **Co-requisite:** PUB404  
**Credit Points:** 12 **Contact Hours:** 6 per week

#### ■ PUB422 PODIATRIC ANAESTHESIOLOGY

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.

**Course:** PU45

**Prerequisite:** PUB421 **Co-requisite:** PUB410  
**Credit Points:** 8 **Contact Hours:** 2 per week

#### ■ PUB423 FOOD & NUTRITION

Nutrition is an important factor in the provision of health, and prevention and management of many disease states. This unit provides an overview of concepts 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 for a healthy diet; nutrient requirements in particular clinical situations.

**Courses:** NS40, NS48

**Prerequisites:** Physiology and Pharmacology  
**Credit Points:** 8 **Contact Hours:** 3 per week

#### ■ PUB430 APPLIED HEALTH CARE ANALYSIS

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.

**Course:** PU48

**Prerequisite:** EPB163

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ PUB431 HEALTH CARE ECONOMICS 2

Follows up and continues the study of economics as applied to health care. Advanced level studies in health economics are critically examined.

**Course:** PU48

**Prerequisite:** PUB531

**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 units. It allows for critical evaluation of influences of the fashion industry, pattern making, clothing construction and the teaching strategies and resources available.

**Course:** ED26

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ PUB441 NUTRITION EDUCATION

Biochemical approaches to nutrition; history and evolution of nutrition; popular nutrition literature; development of a philosophy of nutrition.

**Courses:** ED26, PU49

**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.

**Course:** PU49

**Co-requisite:** CHB259

**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.

**Course:** PU49, ED50

**Co-requisite:** CHB259

**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.

**Course:** PU49

**Co-requisite:** LSB242

**Credit Points:** 12 **Contact Hours:** 5 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.

**Courses:** PU42, PU49

**Co-requisite:** LSB301 or LSB405

**Credit Points:** 12 **Contact Hours:** 5 per week

#### ■ PUB481 POLLUTION SCIENCE 2

The causes, effects, control measures, standards and legislation relating to water pollution and solid and hazardous wastes.

**Course:** PU42

**Prerequisites:** CHB242, PHB263

**Credit Points:** 12 **Contact Hours:** 5 per week

#### ■ PUB482 OCCUPATIONAL HEALTH

Basic concepts of toxicology and the body's responses to toxic substances; basic disease processes in humans and the various agents in the workplace adversely affecting the health of workers.

Course: PU44 Prerequisite: PUB211  
Co-requisites: LSB242, LSB431  
Credit Points: 12 Contact Hours: 4 per week

#### ■ PUB483 ERGONOMICS

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.

Course: PU44 Prerequisite: MEB035  
Credit Points: 8 Contact Hours: 3 per week

#### ■ PUB485 OCCUPATIONAL HYGIENE 1

Applies the practical skills students have already obtained from Chemistry 1 and 2 and Physics 1H & 2H to the field of occupational hygiene. It introduces the uses and limitations of a range of sampling and analytical equipment in the measurement and assessment of workplace contaminants.

Course: PU44 Prerequisite: CHB242  
Credit Points: 12 Contact Hours: 4 per week

#### ■ PUB499 HEALTH INFORMATION MANAGEMENT 3

Enables 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.

Course: PU48 Prerequisite: PUB399  
Credit Points: 12 Contact Hours: 3 per week

#### ■ PUB502 DERMATOLOGY

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, vasculitides, 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 allowing students the opportunity to see and diagnose many of these conditions.

Course: PU45  
Prerequisites: PUB410, PUB421, PUB503  
Credit Points: 8 Contact Hours: 3 per week

#### ■ PUB503 PODIATRIC MEDICINE 3

Develops professional understanding of the general and specific effects of medical and surgical conditions on the human foot. Also expands the concept of total case management in terms of the interdisciplinary approach, including physical, mechanical and surgical techniques. Completion of this unit should enable

students to consolidate the podiatrist's role in the health care team across the spectrum of practice.

Course: PU45  
Prerequisite: PUB421 Co-requisite: PUB504  
Credit Points: 8 Contact Hours: 3 per week

#### ■ PUB504 CLINICAL SCIENCE 3

On completion, 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.

Course: PU45 Prerequisites: PUB404, PUB421  
Co-requisite: PUB304  
Credit Points: 8 Contact Hours: 9 per week

#### ■ PUB505 PODIATRIC SURGERY

Implementation of podiatric surgical techniques based on strong theoretical knowledge. On completion, students should understand the principles and techniques of minimal incision surgery.

Course: PU45 Prerequisites: PUB422, PUB410  
Co-requisite: PUB603  
Credit Points: 8 Contact Hours: 3 per week

#### ■ PUB512 ERGONOMICS 2

Application of psychology to the industrial environment; examination of key individual, social and organisational factors contributing to health and safety at work; stress, information processing and learning, performance abilities and work schedules.

Course: PU44 Prerequisites: SSB914, PUB483  
Credit Points: 12 Contact Hours: 4 per week

#### ■ PUB513 EPIDEMIOLOGY & DISEASES

Enables students to become familiar with the terminology used in the epidemiology and the study of diseases; includes the conducting of various types of study including the analysis of data in the workplace; topics include: 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.

Courses: PU42, PU44  
Credit Points: 12 Contact Hours: 4 per week

#### ■ PUB516 OCCUPATIONAL HEALTH & SAFETY PRACTICE 1

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.

Course: PU44 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.

Course: PU42  
Prerequisites: LSB431, PUB207, PUB478  
Credit Points: 8 Contact Hours: 4 per week

**■ PUB520 ENVIRONMENTAL HEALTH MANAGEMENT 1**

Management of an environmental health unit; legal procedures associated with the duties of environmental health officers; aspects of town planning.

Course: PU42 Prerequisites: PUB207, PUB481  
Credit Points: 12 Contact Hours: 5 per week

**■ PUB528 HEALTH ADMINISTRATION PROJECT**

Enables students to do follow-up work of a practical nature in an area of interest to them. Before being admitted to this unit, 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.

Course: PU48

Credit Points: 12 Contact Hours: 3 per week

**■ PUB531 HEALTH CARE ECONOMICS 1**

Application of economic analysis to the health care industry; an examination of the demand for health care, the supply of and market for health care.

Course: PU48

Credit Points: 12 Contact Hours: 3 per week

**■ PUB533 INTERNATIONAL HEALTH CARE SYSTEMS**

Makes 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.

Course: PU48

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.

Course: PU49

Credit Points: 12 Contact Hours: 3 per week

**■ PUB542 ADVANCED COUNSELLING SKILLS**

Provides the opportunity to integrate and practice understanding of the basic skills of counselling in order to increase students' understanding of the counselling process; students observe and practice these basic skills. The use of these skills and theoretical concepts are examined within the context of the counselling process.

Course: PU49

Credit Points: 12 Contact Hours: 3 per week

**■ PUB546 SOCIOLOGY OF PUBLIC HEALTH**

Sociological principles and methods dealing with issues arising from the health and well-being of the community; examines ways the organisation of health care reflects particular assumptions concerning the nature of health and health work and reinforces these understandings; sociological understandings which can be of value to health workers and planners.

Course: PU49

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.

Course: PU49

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.

Course: PU49

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.

Course: PU49

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; preparation of a brief.

Course: PU49

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.

Course: PU49

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.

Course: PU49

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.

Course: PU49

Credit Points: 12 Contact Hours: 3 per week

**■ 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.

**Course:** PU48 **Prerequisite:** AYB104 or AYB110  
**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; detailed research of client needs, textile specification and evaluation and costing; develops to an advanced level knowledge, understanding and processes established in PUB572.

**Course:** PU49 **Prerequisite:** PUB572  
**Credit Points:** 12 **Contact Hours:** 4 per week

#### **■ PUB585 OCCUPATIONAL HYGIENE 2**

Continuation of PUB985; concentrates on the application of the principles to which the student has already been introduced; extends the student's ability to recognise, evaluate and suggest the most efficient control strategies for physical and chemical hazards in the working environment; includes an analysis of the principles and design of ventilation systems; examines the elements of successful monitoring programs in the workplace.

**Course:** PU44  
**Prerequisites:** PUB482, LSB431, 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.

**Course:** PU49  
**Credit Points:** 12 **Contact Hours:** 3 per week

#### **■ PUB592 INDEPENDENT HOME ECONOMICS STUDY 1**

Self-initiated and self-directed academic study in an interest area consistent with the courses overall aims.

**Course:** PU49  
**Credit Points:** 12 **Contact Hours:** 1 per week

#### **■ PUB594 INDEPENDENT HOME ECONOMICS STUDY 2**

See PUB592.  
**Course:** PU49  
**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.

**Course:** PU48  
**Prerequisite:** 16 units in PU48  
**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 symptomatology of lower limb functional pathologies as related to specific sports and devise treatment programs. An understanding of the principles of human fitness and potential in relation to athletic injuries and expectations forms the foundation for further studies.

**Course:** PU45 **Prerequisites:** PUB503, PUB410  
**Co-requisite:** PUB411  
**Credit Points:** 8 **Contact Hours:** 3 per week

#### **■ PUB603 CLINICAL SCIENCE 4**

Prepares the student for the transition to private practice. 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.

**Course:** PU45  
**Credit Points:** 8 **Contact Hours:** 12 per week

#### **■ PUB605 HEALTH MANAGEMENT 2**

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.

**Course:** PU48 **Prerequisite:** PUB600  
**Credit Points:** 12 **Contact Hours:** 3 per week

#### **■ PUB610 PROJECT & PROFESSIONAL MANAGEMENT**

This unit explains 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.

**Course:** PU45  
**Credit Points:** 8 **Contact Hours:** 3 per week

#### **■ PUB611 HAZARD ASSESSMENT & MANAGEMENT**

The history of accident causation theory. Provides students with a knowledge of the analytical techniques for accident prevention and develops skills for recording, analysing and reporting accident information; enhances students' understanding of the principles of hazardous chemicals management.

**Course:** PU44 **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.

**Course:** PU44 **Prerequisite:** SSB914  
**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.

**Course:** PU44 **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.

**Course:** PU44  
**Prerequisites:** PUB482, MEB035, PHB404  
**Credit Points:** 8 **Contact Hours:** 6 per week

**■ PUB617 OCCUPATIONAL HEALTH & SAFETY 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.

Course: PU44

Prerequisite: PUB405

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.

Course: PU48

Prerequisite: ISB892

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.

Course: PU48

Prerequisite: PUB499

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 to the management of a range of environmental health problems encountered in the professional practice of an environmental health officer.

Course: PU42

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 for the purpose of practical demonstration, evaluation and professional experience.

Course: PU42

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.

Course: PU42

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.

Course: SC30

Prerequisite: PUB405

Credit Points: 12

Contact Hours: 5 per week

**■ PUB634 HEALTH SERVICES EVALUATION**

A study of process evaluation, program evaluation and evaluation research with applications to the health field; 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. Addresses topics such as quality assurance, utilisation, review and accreditation.

Course: PU48

Prerequisite: PUB646

Credit Points: 12

Contact Hours: 3 per week

**■ PUB646 HEALTH SERVICES PLANNING**

The administrator's role in the planning and development of health care facilities and health services; 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.

Course: PU48

Prerequisites: PUB130, PUB430

Credit Points: 12

Contact Hours: 3 per week

**■ PUB672 RESEARCH METHODS**

Introduction to research; research in home economics; theoretical elements; research types or settings; sampling and measurement; methods of data collection; analysis and interpretation of data; planning and design of a major research project.

Course: PU49

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.

Course: PU49

Co-requisite: PUB272

Credit Points: 12

Contact Hours: 3 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.

Courses: HL88, NS62, NS85

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.

**Courses:** HL88, NS85, PU85

**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.

**Courses:** HL88, PU85

**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.

**Courses:** HL88, PU85

**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.

**Courses:** HL88, NS85, PU85

**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.

**Course:** PU85

**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; evaluation results and the administration of evaluation studies.

**Course:** PU85

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ PUN613 PUBLIC HEALTH EDUCATION

This unit will not be offered in 1993.

#### ■ PUN617 ENVIRONMENTAL HEALTH MANAGEMENT 1

This unit considers environmental health management as an important component in resolving health threatening hazards in the community. Topics include: history of environmental and community health and the approaches of preventive health including the 'old' and 'new' public health; the concept of environmental health and the reduction of life threatening hazards in the community; the legal system and its approach to environmental legislation and environmental health legislation; a critical review of existing legislation and its effectiveness; the administrative system and political system and the role of government in formulating public health policy and its effect on environmental health decision making;

the relevance of the structure and function of the Commonwealth, State and Local Government in Australia for environmental health programs; the professional role of environmental health officers and a detailed analysis of Acts, regulations and policies relevant to environmental health.

**Course:** HL88

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ PUN618 ENVIRONMENTAL HEALTH MANAGEMENT 2

This unit builds on PUB617 and considers other relevant environmental health management issues which are an important component in resolving health threatening hazards in the community. Topics include: management principles; including the functions of planning, leading, controlling and co-ordinating in the environmental health setting; budgeting formats at all levels of government, including fiscal arrangements for public health policy initiatives; assessment of risk and environmental health policy delivery; modelling processes to calculate the best alternative for policy delivery; survey methodology and data collection and presentation to improve decision making in environmental health; a review of computer software to enhance decision making and office management systems and record and monitor legislative requirements in environmental health.

**Course:** HL88

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ PUN619 ENVIRONMENTAL HEALTH 1

Considers land as a major component of the environment and as a finite resource which must be properly managed to ensure continued health and well-being for individuals and communities. Examines land as a resource; management strategies and adverse pressures on this component of the environment. Adverse impacts considered include solid and hazardous waste generation and disposal, land contamination and strategies for prevention and management.

**Course:** HL88

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ PUN620 ENVIRONMENTAL HEALTH 2

This unit considers water and atmosphere as finite resources which must be properly managed to ensure continued health and well-being for individuals and communities. It examines water and atmosphere as resources, management strategies and adverse pressures on these components of the environment. Adverse impacts resulting from various forms of pollution and use are considered together with strategies for prevention and management of such issues.

**Course:** HL88

**Credit Points:** 12      **Contact Hours:** 3 per week

#### ■ PUN622 CLOTHING: THE HUMAN CONSTRUCTED ENVIRONMENT

Clothing has physiological, psychological, and sociological connotations that affect the self image and the social relationships of all people. For those who deviate from the norms, the physically disabled, the chronically ill, the mentally handicapped, the visually impaired, and those with extreme problems of weight and stature, these connotations become more important. In this unit of study the requirements of specific target groups will be investigated and students will then be challenged to meet their needs through functional clothing design.

**Course:** HL88

**Credit Points:** 12      **Contact Hours:** 3 per week



### ■ PUN623 HOME ECONOMICS, THE FAMILY & THE POLITICS OF FEMINISM

Theories of family and the politics of feminism are investigated and the relationship between family and feminist thought are juxtaposed. Topics include: contextualising the study of feminism and the family in home economics; what is family? sociology of the family; the family in Australia; history of feminist thought and current feminist thinking; feminism in Australia; critique of feminism; which way feminism?; feminism and the family; feminism and home economics; well being of individuals and families - what does it mean?

Course: HL88

Credit Points: 12 Contact Hours: 3 per week

### ■ PUN624 HOME ECONOMICS FOOD & NUTRITION

A significant factor influencing food patterns is the changing food market with concomitant political, psycho-social, economic, technical and ethical aspects affecting the supply of food to the consumer. Students will be directed to research nutritional practices, and to uncover the factors influencing such practices. This research will then form the basis for, not only developing strategies for individuals accepting responsibility for their own food-related experiences, but also for examining critically existing nutrition education programs and recommended nutrition goals and guidelines. Topics include: the individual; the food supply; nutritional science; nutrition education.

Course: HL88

Credit Points: 12 Contact Hours: 3 per week

### ■ PUN625 HOME ECONOMICS PHILOSOPHICAL FOUNDATIONS

This unit entails a critical examination of relevant political, social, economic, technological and ethical issues which influence well-being of individuals and families. Topics include: what is home economics?; societal issues; implications for home economics praxis; developing a personal philosophy of home economics.

Course: HL88

Credit Points: 12 Contact Hours: 3 per week

### ■ PUN626 HOME ECONOMICS FIELD STUDY

This unit enables students to develop an area of their own choosing and to explore this in depth. The format and content of the program will be negotiated between student and lecturer. However it is intended that the focus of the study would be investigating Home Economics theory and practice within the school and/or community setting. Possible areas of study might include: education issues for home economics, home economics and feminism, family studies; human development, human relationships, food and nutrition, textiles, shelter, consumerism, management, design, environmental issues, and technology. Areas available will be determined by the expertise and research interests of the staff.

Course: HL88

Credit Points: 12 Contact Hours: 3 per week

### ■ PUN627 ADVANCED PHARMACOLOGY

Topics include: an in depth study of drugs relevant to podiatric practice; including their actions, indications, contra-indications, adverse reactions, drug interactions and dosages; indications and contra-indications and adverse effects of the use of antibiotics, sedatives, NSAIDs analgesics, cortico-steroids, epinephrine in relevant local anaesthetics; the actions of systemic

drugs on; the nervous system, cardiovascular, endocrine and musculo skeletal systems; prescription writing and drug regulations.

Course: HL88

Credit Points: 12 Contact Hours: 3 per week

### ■ PUN628 CLINICAL PATHOLOGY & DIAGNOSIS

This unit provides students with advanced clinical management skills commensurate with the Master's Degree level of education: an important practical adjunct to the theoretical concepts of clinical pathology and associated diagnostic techniques; gives the Podiatrist the opportunity to apply acquired knowledge in a supervised clinical environment facilitating a comprehensive approach to the evaluation and treatment of foot pathology in the community; students undertaking the management of patients attending the QUT clinical facility.

Course: HL88

Credit Points: 12 Contact Hours: 3 per week

### ■ PUN629 GENERAL MEDICINE

This unit provides an advanced level of knowledge necessary for a holistic medical approach to the management of disease processes. The relationship between pathogenesis and advanced therapeutic treatment will be explored; designed to enhance the theoretical and clinical knowledge gained from the advanced pharmacology and clinical pathology/diagnosis subjects. Topics include: haematopoietic and lymphoid system; immune system; endocrine system; musculoskeletal system; hereditary and genetic; nervous system; cardiovascular system; gastrointestinal system; the liver, the biliary tract and the pancreas; respiratory system; the renal system.

Course: HL88

Credit Points: 12 Contact Hours: 3 per week

### ■ PUN630 COMPUTERISED GAIT ANALYSIS

Students have the opportunity to further their study and understanding of human movement and gait analysis; and to enhance their clinical biomechanical assessment of a patient, thus allowing for better evaluation and treatment regimes. This will be achieved using computerised video motion assessment and foot force assessment systems. Particular emphasis will be directed to providing the student with the opportunity of applying this information to specialised areas of podiatric sports medicine.

Course: HL88

Credit Points: 12 Contact Hours: 3 per week

### ■ PUN631 PODIATRIC SURGERY

Introduces professionals to the more technical aspects of foot surgery. It deals with pre-operative planning of procedures as well as post-operative complications. By the end of the course students will gain sufficient knowledge to be able to make informed referrals to those qualified to perform appropriate procedures.

Course: HL88

Credit Points: 12 Contact Hours: 3 per week

### ■ PUP007 SOCIAL & BEHAVIORAL EPIDEMIOLOGY

Introduction to the field of social and behavioral epidemiology. Examines the role of epidemiology in identifying health problems as well as seeking measures to control or prevent the occurrence of illness in human populations.

Courses: HL88, PU68, PU69

Credit Points: 12 Contact Hours: 3 per week

#### **■ PUP010 HEALTH IN AUSTRALIAN SOCIETY**

Addresses significant issues associated with the multifactorial relationships between health and social, economic, political and lifestyle factors. Examination of the structure of Australian society as it impacts on health; patterns of mortality and morbidity and the nature and extent of health care delivery systems.

Courses: HL88, PU68, PU69

Credit Points: 12 Contact Hours: 3 per week

#### **■ PUP012 PROGRAM EVALUATION**

An introduction to the role of research and evaluation in a broad range of health education and promotion contexts. The unit focuses on the development of skills in program evaluation, research skills to analyse and interpret current research literature and the development of research proposals.

Course : PU68

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.

Courses: PU68, PU69

Prerequisite: PUP010

Credit Points: 12 Contact Hours: 3 per week

#### **■ PUP014 SCHOOL HEALTH EDUCATION**

Introduction to the field of school health education. Focuses on the nature, scope and place of school health education in the total school environment; major issues facing schools and educators involved in developing and implementing school health education; structural and organisational factors impacting on program development.

Courses: PU68, HL88

Credit Points: 12 Contact Hours: 3 per week

#### **■ PUP017 COMMUNITY HEALTH PROGRAM PLANNING**

Planning and implementing intervention strategies in community health; culminating unit 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.

Course: PU69

Prerequisite: PUP016

Credit Points: 12 Contact Hours: 3 per week

#### **■ PUP018 HEALTH PROMOTION STRATEGIES**

Examines and analyses the process of selection and implementation of appropriate educational approaches for health education and health promotion programs; a broad range of theories, methods and strategies for planning educational experiences.

Courses: HL88, PU62, PU68, PU69, PU85

Credit Points: 12 Contact Hours: 3 per week

#### **■ PUP021 CASE STUDIES ON CONTEMPORARY HEALTH ISSUES**

Focuses on current issues facing practitioners in health education and promotion. Includes critical analysis of strategies and policies designed to address contemporary health issues and encourages students to become informed and critical practitioners.

Courses: HL88, PU68, PU69

Credit Points: 12 Contact Hours: 3 per week

#### **■ PUP022 HEALTH PROMOTION CONCEPTS & POLICY: A CRITICAL ANALYSIS**

Essential advanced study for practitioners engaged in the application of health promotion strategies. It acknowledges the importance of knowledge and skills to reduce behavioral risks, however, it emphasises the significant strategies and policies of health promotion including healthy public policy, social view of health, laws and regulations and leadership and advocacy.

Courses: HL88, PU68, PU69

Credit Points: 12 Contact Hours: 3 per week

#### **■ PUP023 PROGRAM PLANNING IN SCHOOL & COMMUNITY HEALTH**

Major components of health education and health promotion - the planning and implementation of intervention strategies and comprehensive programs. Provides a conceptual synthesis of the foundation of health education and promotion and analyses models of program planning and evaluation.

Courses: HL88, PU68

Credit Points: 12 Contact Hours: 3 per week

#### **■ PUP024 FOUNDATIONS OF HEALTH EDUCATION**

Introduction to the theoretical and practical dimensions of health education as a major component of the process of health promotion. Subject introduces knowledge, skills and practices necessary to implement health education strategies.

Courses: HL88, PU68, PU69

Credit Points: 12 Contact Hours: 3 per week

#### **■ PUP025 COMMUNITY HEALTH PROMOTION**

The field of health education and health promotion specifically focusing on the nature of the community health education; examines the environmental, social and educational elements supporting and encouraging behaviours conducive to health.

Courses: HL88, PU68

Credit Points: 12 Contact Hours: 3 per week

#### **■ PUP027 INDEPENDENT STUDY**

Research work in an area of personal or professional interest to the student in the health sciences. The focus may be one of specific content area or process in health education or health promotion. Involves liaison with academic adviser.

Courses: PU68, PU69

Credit Points: 12

Contact Hours: To be negotiated

#### **■ 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.

Course: PU62

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.

Course: PU62

Credit Points: 12 Contact Hours: 5 per week

### ■ PUP115 OCCUPATIONAL HEALTH & SAFETY LAW & MANAGEMENT I

Introduces students to basic concepts in occupational health and safety; develops 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 develops a sound foundation in the principles and practice of health promotion.

Courses: NS62, PU65

Credit Points: 12 Contact Hours: 3 per week

### ■ PUP116 ERGONOMICS

The relationship between the worker, the work environment and the workspace. Occupational ill-health and injury arise from a lack of fit between the capabilities of workers and the design of the working environment, the work processes and the physical and mental demands of the task. Insight into ergonomics can assist practitioners to enhance the worker's safety and comfort, improve work efficiency and performance, and optimise work performance. Topics include: basic anatomy and physiology of body systems; occupational biomechanics; psychology.

Courses: HL88, NS62, PU65

Credit Points: 12 Contact Hours: 3 per week

### ■ PUP122 PRACTICE IN CLINICAL DIETETICS

Practical experience and seminar presentations relevant to PNP120 conducted in institutions off-campus (40 hours per week for 11 weeks).

Course: PU62

Prerequisites: Completion of all Semester 1 and Semester 2 units.

Credit Points: 24 Contact Hours: 11 weeks

### ■ PUP123 PRACTICE IN COMMUNITY NUTRITION

Students gain experience in the nutrition and health care of individuals and groups in the community through off-campus practice (40 hours per week for 3 weeks).

Course: PU62

Prerequisites: Completion of all Semester 1 and Semester 2 units.

Credit Points: 12 Contact Hours: 4 weeks

### ■ PUP126 CLINICAL DIETETICS 1

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.

Course: PU62 Co-requisites: PUP109, PUP110

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. Students are required

to undertake various visits to hospitals and other locations to interact with clients and others.

Course: PU62

Prerequisite: PUP126 Co-requisite: PUP128

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.

Course: PU62

Prerequisite: PUP126 Co-requisites: PUP127

Credit Points: 12 Contact Hours: 5 per week

### ■ PUP129 FOOD SERVICE & 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. Field trips to visit various food services.

Course: PU62

Credit Points: 12 Contact Hours: 5 per week

### ■ PUP132 PRACTICE IN FOOD SERVICE MANAGEMENT

Practical experience and seminar presentations. Conducted in institutions off-campus (40 hours per week for 4 weeks).

Course: PU62

Prerequisites: Completion of all Semester 1 and Semester 2 units.

Credit Points: 12 Contact Hours: 3 weeks

### ■ PUP140 COMMUNICATION THEORY & PRACTICE FOR HEALTH PROFESSIONALS

Provides health professionals with skills in communication. Covers communication between clients and health professionals on a one-to-one basis; communication in small groups; public education on health-related matters; diffusion and adoption of health-related behaviours; the role of information; the use of mass media; and communication within health organisations, i.e., between health educators and promoters and other health professionals.

Courses: HL88, PU62

Credit Points: 12 Contact Hours: 3 per week

### ■ PUP215 OCCUPATIONAL HEALTH & SAFETY LAW & MANAGEMENT 2

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.

Course: HL88, PU65

Credit Points: 12 Contact Hours: 3 per week

### ■ PUP250 OCCUPATIONAL HYGIENE

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.

Course: HL88, NS62, PU65

Credit Points: 12 Contact Hours: 3 per week

## ■ PUP301 SAFETY TECHNOLOGY & PRACTICE 2

Risk analysis; occupational health and safety audits; hazard detection and analysis; control strategies; use and limitations of personal protective equipment; safety audits; fire and explosion prevention; safe storage of chemicals; ventilation systems - design and operation; reporting systems and methods.

Courses: HL88, PU65

Credit Points: 12 Contact Hours: 3 per week

## ■ PUP415 OCCUPATIONAL HEALTH

This unit explores chemical hazards in the working environment, epidemiological principles and practice, and identification of special risk groups in the workforce. Topics include: the pathological bases of disease in humans; toxicological principles; dose-response relationships; toxicity testing; absorption, distribution and metabolism of toxic substances; chronic occupational diseases; occupational skin conditions; respiratory diseases; biological hazards in the work environment (bacteria, parasites, viruses, rickettsia and fungi); chemical and physical stresses and their physiological responses; physiological monitoring - principles and practice; special risk groups; epidemiological principles and practice.

Courses: HL88, PU65

Credit Points: 12 Contact Hours: 3 per week

## ■ PUP416 OCCUPATIONAL HEALTH & SAFETY PROJECT

This major project gives students an opportunity to research a particular aspect of their theoretical or practical studies, and thereby develop their research techniques, data collection and evaluation skills and ability to work independently under supervision. By submission of a written project report, they will draw upon many of the skills developed in the unit.

Course: PU65

Credit Points: 12

## ■ SBB101 ENVIRONMENTAL EDUCATION

The nature of environmental education; environmental concept development of young learners; teaching environmental knowledge, concepts, attitudes and behaviour; and the use of fieldwork, interpretive centres and museums in environmental education programs.

Course: ED40

Credit Points: 8 Contact Hours: 2 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.

Course: ED41

Credit Points: 8 Contact Hours: 3 per week

## ■ SBB230 ENVIRONMENTAL EDUCATION

Designed to assist the beginning teacher to implement the Queensland Department of Education's environmental policy in primary schools; aims to develop expertise in the design and delivery of class programs and activities for children.

Course: ED41 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 integra-

tive 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 unit 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.

Course: ED41

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.

Courses: ED41, ED51

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.

Courses: ED41, ED51

Prerequisite: SBB261

Credit Points: 12 Contact Hours: 3 per week

## ■ SBB325 ACCOUNTING/BUS MANAGEMENT CURRICULUM STUDIES 1

This unit assists students to develop those competencies needed for planning and teaching in selected curriculum areas. Content includes: the nature of the curriculum area/discipline and its role and contribution as a medium for education; introduction to relevant syllabuses and curriculum documents; lesson and curriculum unit planning activities; and teaching strategies designed to promote a range of learning experiences in selected curriculum areas.

Course: ED50

Prerequisite: Normally the completion of 48 credit points in each relevant discipline area.

Credit Points: 12 Contact Hours: 3 per week

## ■ SBB326 ACCOUNTING/BUS MANAGEMENT CURRICULUM STUDIES 2

This unit extends the principles of professional practice established in Curriculum Studies 1. Content includes: curriculum development within the context of contemporary policies, frameworks and agencies; general principles of measurement, assessment and evaluation; teaching and learning strategies; and issues and directions in curriculum development.

Course: ED50

Prerequisite: SBB325

Credit Points: 12 Contact Hours: 3 per week

## ■ SBB327 COMMUNICATION TECHNOLOGY CURRICULUM STUDIES 1

This unit assists students to develop those competencies needed for planning and teaching in selected curriculum areas. Content includes: the nature of the

curriculum area/discipline and its role and contribution as a medium for education; introduction to relevant syllabuses and curriculum documents; lesson and curriculum unit planning activities; and teaching strategies designed to promote a range of learning experiences in selected curriculum areas.

**Course:** ED50

**Prerequisite:** Normally the completion of 48 credit points in each relevant discipline area.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ SBB328 COMMUNICATION TECHNOLOGY CURRICULUM STUDIES 2

This unit extends the principles of professional practice established in Curriculum Studies 1. Content includes: curriculum development within the context of contemporary policies, frameworks and agencies; general principles of measurement, assessment and evaluation; teaching and learning strategies; and issues and directions in curriculum development.

**Course:** ED50

**Prerequisite:** SBB327

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ SBB329 ECONOMICS CURRICULUM STUDIES 1

This unit assists students to develop those competencies needed for planning and teaching in selected curriculum areas. Content includes: the nature of the curriculum area/discipline and its role and contribution as a medium for education; introduction to relevant syllabuses and curriculum documents; lesson and curriculum unit planning activities; and teaching strategies designed to promote a range of learning experiences in selected curriculum areas.

**Course:** ED50

**Prerequisite:** Normally the completion of 48 credit points in each relevant discipline area.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ SBB330 ECONOMICS CURRICULUM STUDIES 2

This unit extends the principles of professional practice established in Curriculum Studies 1. Content includes: curriculum development within the context of contemporary policies, frameworks and agencies; general principles of measurement, assessment and evaluation; teaching and learning strategies; and issues and directions in curriculum development.

**Course:** ED50

**Prerequisite:** SBB329

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ SBB331 GEOGRAPHY CURRICULUM STUDIES 1

This unit assists students to develop those competencies needed for planning and teaching in selected curriculum areas. Content includes: the nature of the curriculum area/discipline and its role and contribution as a medium for education; introduction to relevant syllabuses and curriculum documents; lesson and curriculum unit planning activities; and teaching strategies designed to promote a range of learning experiences in selected curriculum areas.

**Course:** ED50

**Prerequisite:** Normally the completion of 48 credit points in each relevant discipline area.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ SBB332 GEOGRAPHY CURRICULUM STUDIES 2

This unit extends the principles of professional practice established in Curriculum Studies 1. Content includes: curriculum development within the context of contemporary policies, frameworks and agencies;

general principles of measurement, assessment and evaluation; teaching and learning strategies; and issues and directions in curriculum development.

**Course:** ED50

**Prerequisite:** SBB331

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ SBB333 HISTORY CURRICULUM STUDIES 1

This unit assists students to develop those competencies needed for planning and teaching in selected curriculum areas. Content includes: the nature of the curriculum area/discipline and its role and contribution as a medium for education; introduction to relevant syllabuses and curriculum documents; lesson and curriculum unit planning activities; and teaching strategies designed to promote a range of learning experiences in selected curriculum areas.

**Course:** ED50

**Prerequisite:** Normally the completion of 48 credit points in each relevant discipline area.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ SBB334 HISTORY CURRICULUM STUDIES 2

This unit extends the principles of professional practice established in Curriculum Studies 1. Content includes: curriculum development within the context of contemporary policies, frameworks and agencies; general principles of measurement, assessment and evaluation; teaching and learning strategies; and issues and directions in curriculum development.

**Course:** ED50

**Prerequisite:** SBB333

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ SBB335 LEGAL STUDIES CURRICULUM STUDIES 1

This unit assists students to develop those competencies needed for planning and teaching in selected curriculum areas. Content includes: the nature of the curriculum area/discipline and its role and contribution as a medium for education; introduction to relevant syllabuses and curriculum documents; lesson and curriculum unit planning activities; and teaching strategies designed to promote a range of learning experiences in selected curriculum areas.

**Course:** ED50

**Prerequisite:** Normally the completion of 48 credit points in each relevant discipline area.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ SBB336 LEGAL STUDIES CURRICULUM STUDIES 2

This unit extends the principles of professional practice established in Curriculum Studies 1. Content includes: curriculum development within the context of contemporary policies, frameworks and agencies; general principles of measurement, assessment and evaluation; teaching and learning strategies; and issues and directions in curriculum development.

**Course:** ED50

**Prerequisite:** SBB335

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ SBB337 SOCIAL SCIENCE CURRICULUM STUDIES 1

This unit assists students to develop those competencies needed for planning and teaching in selected curriculum areas. Content includes: the nature of the curriculum area/discipline and its role and contribution as a medium for education; introduction to relevant syllabuses and curriculum documents; lesson and curriculum unit planning activities; and teaching

strategies designed to promote a range of learning experiences in selected curriculum areas.

**Course:** ED50

**Prerequisite:** Normally the completion of 48 credit points in each relevant discipline area.

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ SBB338 SOCIAL SCIENCE CURRICULUM STUDIES 2

This unit extends the principles of professional practice established in Curriculum Studies 1. Content includes: curriculum development within the context of contemporary policies, frameworks and agencies; general principles of measurement, assessment and evaluation; teaching and learning strategies; and issues and directions in curriculum development.

**Course:** ED50

**Prerequisite:** SBB337

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ SBB339 CURRICULUM IN SOCIAL EDUCATION

Builds on SBB340 to develop a coherent and balanced understanding of the nature and role of Social Education, the Queensland Primary Schools Social Studies Syllabus and P-10 Social Education Framework and introduces other national and international syllabi and programs. Investigates some of the more recent significant initiatives in Social Education, such as Aboriginal and Torres Strait Island Education, Environmental Education and Global Education. Students design an innovative curriculum program for the classroom and clarify their own philosophy and degree of commitment to Social Education teaching.

**Course:** ED51

**Prerequisite:** SBB340

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ SBB340 TEACHING SOCIAL EDUCATION

Develops an introductory understanding of the nature and role of Social Education and Queensland Primary Schools Social Studies Syllabus and Guidelines, Workbooks, and the P-10 Social Education Framework. Investigates the various learning styles in the classroom and appropriate teaching strategies to cater for these and especially by processes for individualising instruction via inquiry learning.

**Course:** ED51

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ SBB341 DIRECTIONS IN SOCIAL EDUCATION

Builds on SBB339 and SBB340 and analyses the contribution to social education in the classroom of areas, themes and topics, such as, teaching for a better world, environmental education, peace and justice, effective citizenship, political literacy, human rights, development education, gender and equity, global education and futures education.

**Course:** ED51

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ SBB342 SOCIAL & ENVIRONMENTAL FOUNDATIONS

The unit explores from an interdisciplinary perspective a number of thematic questions about teaching: the historical development of social and environmental foundations in the study of society; the current socio-cultural context of social and environmental education; culture and beliefs as an influence on social and environmental activity; the quality of natural and social systems in the world; resources: conservation and development; place and space, continuity and change, key skills and competencies, critical and crea-

tive thinking, perceptions, attitudes and values in social and environmental studies.

**Course:** ED51

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ SBB343 THE AUSTRALIAN LEGACY

This course examines those forces which have shaped contemporary Australia. Through a consideration of this historical legacy it aims to give a better understanding of those social, economic and constitutional developments which are taking place as Australia moves towards the twenty-first century.

**Course:** ED51

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ SBB344 CONSUMER EDUCATION IN PRIMARY SCHOOLS

This unit provides opportunities for Primary School teachers to gain an awareness of the role and functions of consumers in the Australian economy, and the interrelationship between consumers, business and the government. It discusses consumer protection laws and the need for consumer protection. The subject examines various teaching strategies and teaching resources and assists teachers to plan Consumer Education teaching programs for implementation in primary schools.

**Course:** ED51

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ SBB345 AUSTRALIA, ASIA AND THE PACIFIC – A FUTURES APPROACH

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 future 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 understandings from the above, teachings methods and techniques are developed for the P-10 Social Education Curriculum.

**Course:** ED51

**Credit Points:** 12      **Contact Hours:** 3 per week

### ■ SBB346 ENVIRONMENTAL EDUCATION

This unit 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.

**Course:** ED51

**Credit Points:** 12      **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.

**Course:** ED50

**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.

Course: ED50

Prerequisites: SBB350, SBB351, CUB302

Credit Points: 8 Contact Hours: 3 per week

### ■ SBB354 COMMUNICATION TECHNOLOGY CURRICULUM & TEACHING STUDIES 2

See SBB351.

Course: ED50

Prerequisite: SBB353

Co-requisites: CUB302, EDB302

Credit Points: 12 Contact Hours: 3 per week

### ■ SBB355 COMMUNICATION TECHNOLOGY CURRICULUM & TEACHING STUDIES 3

See SBB352.

Course: ED50

Prerequisites: MDB356, MDB357, CUB302

Credit Points: 8 Contact Hours: 3 per week

### ■ SBB357 ECONOMICS CURRICULUM & TEACHING STUDIES 2

See SBB351.

Course: ED50

Prerequisite: SBB356

Co-requisites: CUB302, EDB302

Credit Points: 12 Contact Hours: 3 per week

### ■ SBB358 ECONOMICS CURRICULUM & TEACHING STUDIES 3

See SBB352.

Course: ED50

Prerequisites: SBB356, SBB357, CUB302

Credit Points: 8 Contact Hours: 3 per week

### ■ SBB360 GEOGRAPHY CURRICULUM & TEACHING STUDIES 2

See SBB351.

Course: ED50

Prerequisite: SBB359

Co-requisites: CUB302, EDB302

Credit Points: 12 Contact Hours: 3 per week

### ■ SBB361 GEOGRAPHY CURRICULUM & TEACHING STUDIES 3

See SBB352.

Course: ED50

Prerequisites: SBB359, SBB360, CUB302

Credit Points: 8 Contact Hours: 3 per week

### ■ SBB363 HISTORY CURRICULUM & TEACHING STUDIES 2

See SBB351.

Course: ED50

Prerequisite: SBB362

Co-requisites: CUB302, EDB302

Credit Points: 12 Contact Hours: 3 per week

### ■ SBB364 HISTORY CURRICULUM & TEACHING STUDIES 3

See SBB352.

Course: ED50

Prerequisites: PUB340, PUB350, CUB302

Credit Points: 8 Contact Hours: 3 per week

### ■ SBB366 LEGAL STUDIES CURRICULUM & TEACHING STUDIES 2

See SBB351.

Course: ED50

Prerequisite: SBB365

Co-requisites: CUB302, EDB302

Credit Points: 12 Contact Hours: 3 per week

### ■ SBB367 LEGAL STUDIES CURRICULUM & TEACHING STUDIES 3

See SBB352.

Course: ED50

Prerequisites: SBB365, SBB366, CUB302

Credit Points: 8 Contact Hours: 3 per week

### ■ SBB369 SOCIAL SCIENCE CURRICULUM & TEACHING STUDIES 2

See SBB351.

Course: ED50

Prerequisite: SBB368

Co-requisites: CUB302, EDB302

Credit Points: 12 Contact Hours: 3 per week

### ■ SBB370 SOCIAL SCIENCE CURRICULUM & TEACHING STUDIES 3

See SBB352.

Course: ED50

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.

Courses: ED26, NS48

Credit Points: 12 Contact Hours: 3 per week

### ■ SBB411 SOCIAL EDUCATION CURRICULUM DEVELOPMENT

Designed for teachers wanting to specialise in curriculum planning in primary social studies, secondary economics, history, geography or social science, or TAFE liberal studies; explores recent curriculum movements in social education and relevant curriculum development projects; advanced skills for planning a teaching subject and a work program.

Courses: ED26, NS48

Credit Points: 12 Contact Hours: 3 per week

### ■ SBB412 SOCIAL EDUCATION IN THE CURRICULUM

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; 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.

Courses: ED26, NS48

Credit Points: 12 Contact Hours: 3 per week

### ■ SBB413 LEGAL STUDIES APPLIED CURRICULUM

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.

Course: ED26

Credit Points: 12 Contact Hours: 3 per week

### ■ SBB440 ENVIRONMENTAL EDUCATION

Valuable for 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.

Courses: ED26, NS48

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.

Courses: ED11, ED13

Credit Points: 12 Contact Hours: 3 per week

**■ SBN602 SOCIAL & ENVIRONMENTAL EDUCATION 2**

Exploration of relative strengths and weaknesses of discipline-based and interdisciplinary approaches to social and environmental education through detailed studies of 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.

Courses: ED11, ED13

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; basic teaching skills, the interactive classroom, student learning, learning environments and curriculum implications for, and applications to business education.

Course: ED32

Co-requisite: EDP450

Prerequisite: Appropriate discipline studies in the undergraduate degree.

Credit Points: 24 Contact Hours: 6 per week

**■ SBP421 ACCOUNTING & BUSINESS MANAGEMENT CURRICULUM & TEACHING STUDIES B**

Provides a theoretical context; considers practical applications in assessment, curriculum planning and teaching and learning strategies; examines the roles of the teacher in the community and the profession.

Course: ED32

Prerequisite: SBP420

Co-requisite: EDP451

Credit Points: 12 Contact Hours: 3 per week

**■ SBP422 ECONOMICS CURRICULUM & TEACHING STUDIES B**

See SBP421.

Course: ED32

Prerequisite: SBP420

Co-requisite: EDP451

Credit Points: 12 Contact Hours: 3 per week

**■ SBP423 LEGAL STUDIES CURRICULUM & TEACHING STUDIES B**

This Curriculum B unit 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.

Course: ED32

Prerequisite: SBP420

Co-requisite: EDP451

Credit Points: 12 Contact Hours: 3 per week

**■ SBP424 OFFICE AUTOMATION CURRICULUM & TEACHING STUDIES B**

See SBP421.

Course: ED32

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.

Course: ED32

Co-requisite: EDP450

Prerequisite: Appropriate discipline studies in the undergraduate degree

Credit Points: 24 Contact Hours: 6 per week

**■ SBP431 GEOGRAPHY CURRICULUM & TEACHING STUDIES B**

See SBP421.

Course: ED32

Prerequisite: SBP430

Co-requisite: EDP451

Credit Points: 12 Contact Hours: 3 per week

**■ SBP432 HISTORY CURRICULUM & TEACHING STUDIES B**

This unit 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 practical applications in assessment, curriculum planning, teaching and learning strategies, and examines the roles of the teacher in the community and the profession.

Course: ED32

Prerequisite: SBP430

Co-requisite: EDP451

Credit Points: 12 Contact Hours: 3 per week

**■ SBP433 JUNIOR SOCIAL SCIENCE CURRICULUM & TEACHING STUDIES C**

This unit offers studies which enables appropriately qualified students to teach junior social science at lower levels of the secondary school. Allows the application of principles, skills and understandings which have been developed in the Curriculum A unit and are being expanded in the Curriculum B unit.

Course: ED32

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.

Course: ED22

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; builds upon SBP500.

**Course:** ED22

**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 for teaching environmental economics and ethics.

**Course:** ED22

**Credit Points:** 12

**Contact Hours:** 3 per week

### ■ SBP503 NATURAL ENVIRONMENTAL EDUCATION ISSUES

Relationship between human beings and their natural environment; historical development of environmental ethics; studies of current human impacts on vegetation, animal life, soils, waters, geomorphological processes and climate and implications of these for current notions of sustainability.

**Course:** ED22

**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.

**Course:** ED22

**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 practices in the urban environment.

**Course:** ED22

**Credit Points:** 12

**Contact Hours:** 3 per week

### ■ SBP506 CURRICULUM ISSUES IN BUSINESS EDUCATION

The nature and scope of business education; business education curricular developments; projections and implications of social economic and demographic changes for business education; technology in business education; catering for special needs students in business; integrating business into the lower school curriculum; linkage of business and industry with education; implications of change for effective teaching; promotion of business educators; innovation in the business education area.

**Course:** ED22

**Credit Points:** 12

**Contact Hours:** 3 per week

### ■ SBP507 BUSINESS ORGANISATION & MANAGEMENT EDUCATION 1

Development of the business organisation and management curriculum; comparison with curricula in other states; rationale; nature and aims of business organisation and management; learning experiences appropriate to business organisation and management; examination of curriculum content in the area of business organisation and management.

**Course:** ED22

**Credit Points:** 12

**Contact Hours:** 3 per week

### ■ SBP508 BUSINESS ORGANISATION & MANAGEMENT EDUCATION 2

Learning experiences for business organisation and management; resources for teaching business organisation and management; technology in business organisation and management; development of extension studies; language education in business organisation and management; values and educational equity in business organisation and management; assessment and evaluation in business management.

**Course:** ED22

**Credit Points:** 12

**Contact Hours:** 3 per week

### ■ SBP509 ISSUES IN LEGAL EDUCATION

Nature and scope of legal education; development of legal education curriculum in Australia; comparisons with overseas programs; nature and scope of legal studies in Queensland; development of relevant teaching strategies within a socially-critical framework; optional studies for legal studies.

**Course:** ED22

**Credit Points:** 12

**Contact Hours:** 3 per week

### ■ SBP510 ISSUES IN OFFICE COMMUNICATION TECHNOLOGY EDUCATION

Role of office communication technology in a changing social world; impact of office communication technology on the teaching-learning process; enquiry and process in office communication technology education; implementing office communication technology education in primary and lower secondary curriculum; values and educational equity in office communication technology education; applications of office communication technology in teaching and learning; curriculum development and change management in office communication technology education; assessment and evaluation in office communication technology education.

**Course:** ED22

**Credit Points:** 12

**Contact Hours:** 3 per week

### ■ SBP511 ISSUES IN ACCOUNTING EDUCATION

Curriculum development in accounting; use of computers in teaching and learning accounting; integration of language education into the accounting curriculum; critical examination of teaching strategies; assessment and evaluation in accounting; other issues.

**Course:** ED22

**Credit Points:** 12

**Contact Hours:** 3 per week

### ■ SCB001 LEARNING AT UNIVERSITY

Aims to develop students' awareness and use of learning processes necessary for quality learning at university. It encourages a more meaningful approach to learning through the development of active learning strategies effective in scientific study. The content is closely allied to other first year units. Classes have an interactive format which require active student involvement and participation.

**Courses:** CH32, SC30

**Credit Points:** 2

**Contact Hours:** 1 per week

### ■ SCB100 COOPERATIVE EDUCATION

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 their work supervisor at regular intervals. The student is required to complete a progressive assessment program. Results

are determined on the basis of reports, continuous assessment, and the employer's report.

**Courses:** CH32, MA34, SC30

**Prerequisite:** Completion of 4 semesters of a standard full-time degree-level course, normally with a GPA of not less than 4.5 overall.

### ■ SCB202 SCIENCE, TECHNOLOGY & SOCIETY

The origins of modern science and technology in a social and historical context leading to the study of their role and impact in contemporary society; includes case studies of the development of particular concepts, issues and science and technology based industries. Topics include: the study of the nature of science and technology; the sociological functioning of the scientific enterprise - its norms and values; the nature of scientific knowledge - objectivity and epistemological issues; the future of science and technology - policy and influences.

**Courses:** ED50

**Credit Points:** 12 **Contact Hours:** 5 per week

### ■ 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: physical geology of the planets and formation of the solar system, gravitation, optics of telescopes, spectra and their measurement, phenomena of astronomical origin, brief introduction to stars and galaxies. Practical exercises and field trips.

**Courses:** ED50, SC30

**Credit Points:** 12 **Contact Hours:** 5 per week

### ■ SCB510 INTRODUCTION TO QUALITY MANAGEMENT

Management: concepts, systems, costs and total quality management. Improvement: techniques and procedures.

**Course:** SC30

**Prerequisites:** MAB237 or MAB347 and successful completion of at least 192 credit points.

**Credit Points:** 12 **Contact Hours:** 4 per week

### ■ SCB702 COMPLEMENTARY STUDIES

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 and presentation of proposals for research projects; coursework material from other accredited courses as directed by the project supervisor and Head of School.

**Course:** SC60

**Credit Points:** 8 **Contact Hours:** 6 per week

### ■ SSB000 AUSTRALIAN SOCIETY: INTRODUCTION TO SOCIOLOGY

An introduction to sociology; basic sociological concepts and theories will be introduced and applied in an analysis of the key institutions and structures in Australian society. Students will be exposed to a number of important debates concerning the nature of, and future prospects for, Australian society.

**Course:** SS07

**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ SSB001 HUMAN DEVELOPMENT 1

Theories of human development; theories of child development; life-events, transitions and stresses of

childhood; values clarification regarding children; disturbances in children; applying developmental theory to service provision for children; cross-cultural and Aboriginal child development; moral development; gender development; child abuse; play and creativity in children; bonding and attachment in early childhood; historical development of childhood; family life cycle; biological bases of child development; the impact of political oppression.

**Course:** SS07

**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ SSB002 STUDIES IN HUMAN RIGHTS 1

Historically, social science enquiry has sustained a particular interest in both explaining and changing human situations characterised by deprivation, exploitation, oppression, persecution, disadvantage and disempowerment. This subject, the first of three dealing with the study of human rights, explores such situations from a human rights perspective. It begins with an exploration of ideas of individual and collective human rights and assesses selected international and national situations in terms of civil, political, economic, social and cultural rights.

**Course:** SS07

**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ SSB003 INTRODUCTION TO PSYCHOLOGY

Using an inductive learning approach, this unit examines ways of conceptualising and understanding behaviour focusing on social perception; learning theories and paradigms; the nature of emotions and defensiveness; the social psychology of attitudes/values, self concept, roles, gender, power, groups; models of verbal and non-verbal communication; stress.

**Course:** SS07

**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ SSB004 SOCIAL INEQUALITY IN AUSTRALIA

Theories of class and stratification; patterns of social inequality in Australia: class, gender, race and ethnicity; inequality in social life in: education; work; wealth and income; welfare; housing; health; the law; tackling inequality: future options.

**Course:** SS07

**Prerequisite:** SSB000

**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ SSB005 HUMAN DEVELOPMENT 2

Theories of adolescence; transitions and events in adolescence; adult life and transitions; theories of adulthood; human empowerment; mid-life issues; renewal in mid-life; models of ageing; aged care issues; death.

**Course:** SS07

**Prerequisite:** SSB001

**Credit Points:** 12 **Contact Hours:** 3 per week

### ■ SSB006 STUDIES IN HUMAN RIGHTS 2

Examines social differentiation; inquires into situations of disadvantage and disempowerment; applies a human rights perspective to discrimination on the grounds of gender, race, religion, linguistic heritage and age; analyses the human rights of selected vulnerable individuals and groups (children, young people, juvenile offenders, prisoners, refugees and persons with psychiatric, physical or intellectual disability); evaluates the adequacy of legal, administrative and advocacy arrangements designed to protect and promote fundamental human rights and freedoms.

**Course:** SS07

**Prerequisite:** SSB002

**Credit Points:** 12 **Contact Hours:** 3 per week

**■ SSB007 INTERPERSONAL PROCESSES & SKILLS**

Examines complex communication skills and understandings; communication as a change process and as narrative; 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.

**Course:** SS07 **Prerequisite:** SSB003  
**Credit Points:** 12 **Contact Hours:** 3 per week

**■ SSB008 COUNSELLING THEORY & PRACTICE 1**

Analyses and develops skills associated with the counselling process and helping relationship; theoretical bases of major counselling approaches; counselling skills of major approaches; "re-authoring" and deconstructionist perspectives; ethical, gender and cultural issues in counselling; counselling applied in particular situations; group counselling; change processes in counselling; sociological analysis of the role and function of counselling.

**Course:** SS07 **Prerequisites:** SSB003 and SSB007  
**Credit Points:** 12 **Contact Hours:** 3 per week

**■ SSB009 THE AUSTRALIAN WELFARE STATE**

The origins and contemporary nature of the Australian welfare state; historical data on the antecedents to and stages of welfare state development; major debates and controversies; an overview of the structural arrangements of the Australian welfare state.

**Course:** SS07  
**Credit Points:** 12 **Contact Hours:** 3 per week

**■ SSB010 PROFESSIONAL RESOURCES 1**

Develops two key themes: 'worker as a resource' introduces students to frameworks for practice; human service worker roles and interventions; notions of need and assessment; 'government and non-government services as resources' introduces students to the legislative base, referral and appeal mechanisms of government and non-government services.

**Course:** SS07  
**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; legislation; causes of family breakdown; family assessment process and models; the needs and rights of families; professional ethics and standards.

**Course:** SS07  
**Credit Points:** 12 **Contact Hours:** 3 per week

**■ SSB012 DISABILITY SERVICES 1**

History and attitudes to disability; impact of disability upon individuals and families; reviews principles and theoretical frameworks: normalisation, social role valorisation, etc. underpinning services. Planning around individuals; personal futures planning.

**Course:** SS07  
**Credit Points:** 12 **Contact Hours:** 3 per week

**■ SSB013 CORRECTIVE SERVICES 1**

The criminal justice system; its relationship to the offender; social control and social order; the impact of incarceration on offenders, their families and wider community; women and aboriginals in the criminal justice system; victims of crime.

**Course:** SS07  
**Credit Points:** 12 **Contact Hours:** 3 per week

**■ SSB014 AGED SERVICES 1**

Physiological, psychological, social and cultural aspects of ageing; theories of ageing; ageism; an introduction to ageing research; quality of life issues; common transition and ageing; communication with the aged.

**Course:** SS07  
**Credit Points:** 12 **Contact Hours:** 3 per week

**■ SSB015 MULTICULTURAL SERVICES 1**

Orientation to the context, options and difficulties associated with human service programs for multicultural Australia; introduction to the policies, concepts and issues surrounding multicultural services; immigration and resettlement experiences.

**Course:** SS07  
**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.

**Course:** SS07  
**Credit Points:** 12 **Contact Hours:** 3 per week

**■ SSB017 GROUP WORK**

Types of groups and 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. Includes an intensive group experience in either a camp, weekend residential or two single-day programs.

**Course:** SS07  
**Credit Points:** 12 **Contact Hours:** 3 per week

**■ SSB019 PROFESSIONAL RESOURCES 2**

Integration of welfare interviewing and referral skills with their knowledge of service networks through a series of interview role plays; introduction to statistics (from electronic and print resources) in service planning and submission writing.

**Course:** SS07 **Prerequisite:** SSB010  
**Credit Points:** 12 **Contact Hours:** 3 per week

**■ SSB020 CHILD & FAMILY SERVICES 2**

An overview of the frameworks, assessments and intervention skills necessary for human service work with children in the following contexts: child protection, alternative care, domestic violence, divorce, juvenile justice and chemical dependency.

**Course:** SS07 **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.

**Course:** SS07 **Prerequisite:** SSB012  
**Credit Points:** 12 **Contact Hours:** 3 per week

**■ SSB022 CORRECTIVE SERVICES 2**

Criminological theory and research; correctional policy and practice; empirical data on criminality; major theoretical paradigms of criminality; social

location and extent of crime; the costs of crime; individual and community attitudes towards crime and criminals.

Course: SS07

Prerequisite: SSB013

Credit Points: 12 Contact Hours: 3 per week

### ■ SSB023 AGED SERVICES 2

Services available to the aged within the community and institutions; policy issues and assessment procedures; special interest groups; ethnic aged, Aboriginal and Torres Strait Islander aged, rural aged, aged carers.

Course: SS07

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; needs and issues of specific interest groups; promotes cultural sensitivity by exploring the social mores of Australia's ethnic minorities.

Course: SS07

Prerequisite: SSB015

Credit Points: 12 Contact Hours: 3 per week

### ■ SSB025 YOUTH SERVICES 2

The way gender, ethnicity, class, geographical locations and disability affect 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.

Course: SS07

Prerequisite: SSB016

Credit Points: 12 Contact Hours: 3 per week

### ■ SSB026 FIELDWORK PRACTICE 1

A two-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. 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.

Course: SS07

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.

Contact Hours: 360 hours over 10 weeks

### ■ 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.

Course: SS07

Credit Points: 12 Contact Hours: 3 per week

### ■ SSB028 AUSTRALIAN POLITICAL STRUCTURES & INSTITUTIONS

The application of a contemporary human services framework to Australian political structures and institutions; social policy development with reference to the delivery of human services; aspects of the Australian economy and industrial system relevant to the human services practitioner.

Course: SS07

Prerequisite: SSB004

Credit Points: 12 Contact Hours: 3 per week

### ■ SSB030 CHILD & FAMILY SERVICES 3

An overview of current services and the frameworks, assessment and intervention skills necessary for human service work with parents in the following contexts: child protection, alternative care, domestic violence, chemical dependency and adoption.

Course: SS07

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.

Course: SS07

Prerequisite: SSB021

Credit Points: 12 Contact Hours: 3 per week

### ■ SSB032 CORRECTIVE SERVICES 3

The Queensland Corrective Services Commission: social and political influences on correctional policy; statutory responsibilities and limitations of corrections; communication and organisational change.

Course: SS07

Prerequisite: SSB022

Credit Points: 12 Contact Hours: 3 per week

### ■ SSB033 AGED SERVICES 3

International trends in aged care; environmental issues and ageing; mental health and ageing; sexuality and ageing; ageing, work and retirement.

Course: SS07

Prerequisite: SSB023

Credit Points: 12 Contact Hours: 3 per week

### ■ SSB034 MULTICULTURAL SERVICES 3

This unit aims to develop the students' ability to critically evaluate Australia's social institutions for their relevance and fairness to ethnic minorities. It explores contemporary principles which direct service delivery as it relates to ethnic minorities and evaluate current promotion methods employed.

Course: SS07

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 focusses on youth policy development and analysis; contemporary policy and practice issues relating to the juvenile justice system.

Course: SS07

Prerequisite: SSB025

Credit Points: 12 Contact Hours: 3 per week

### ■ SSB036 FIELDWORK PRACTICE 2

A two-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. 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.

Course: SS07

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.

Contact Hours: 360 hours over 10 weeks

### ■ SSB037 STUDIES IN HUMAN RIGHTS 3

Examines notions of collective or solidarity rights; applying to linguistic, religious, legal, social and

political issues relating to ethnic minorities and indigenous peoples; explores the inter-relationship between human rights and global issues including peace, international security, sustainable development, environmental degradation and the national right to economic, social and cultural development.

Course: SS07

Prerequisite: SSB006

Credit Points: 12 Contact Hours: 3 per week

### ■ SSB038 SOCIAL POLICY & SOCIAL CHANGE

Conceptualising economic, population and structural change in Australia; understanding emergent ideas about state and society; identifying and contrasting alternative social policies and strategies.

Course: SS07

Credit Points: 12 Contact Hours: 3 per week

### ■ SSB039 CONTEMPORARY SOCIAL POLICIES

The major debates in Social Policy will be explored. Analyses of Australia's response and the impact on redistribution in the Welfare State. Current analyses of health, housing, income security, legal, immigration and family policies at Federal, State and Local government level.

Course: SS07

Credit Points: 12 Contact Hours: 3 per week

### ■ SSB040 DIRECTED STUDIES IN HUMAN SERVICE PRACTICE & THEORIES

Students undertake a directed reading and study project within their chosen service area; with a high level of specificity within an area or areas of practice identified by each service coordinator. Content will be tailored to the specific service area.

Course: SS07

Credit Points: 12 Contact Hours: 3 per week

### ■ SSB802 TECHNOLOGY & CULTURE

Investigates the social and cultural aspects of technology-practice; the relationship between social and cultural organisation and behaviour, and the technical aspects of human development; historical, anthropological, sociological and cultural perspectives are used to analyse the relationship between technology and culture.

Course: ED26

Credit Points: 12 Contact Hours: 3 per week

### ■ SSB803 SOCIAL PSYCHOLOGY

General study of applied social psychology and its relevance to a variety of professional roles and work environments; group dynamics and related concepts; analysing small group development; behaviours affected by stress or pressure, health, environmental design and work space.

Course: PU49

Credit Points: 12 Contact Hours: 3 per week

### ■ SSB804 PSYCHOLOGY & GENDER

Theories of gender; male and female; masculine and feminine; roles vs power; counselling issues; old and new paradigms; history of psychology of gender; sexuality; mothers and fathers; "psychology constructs the female"; psychology in patriarchal discourse; family therapy theory and feminist critiques; psychological constructs and the media; film and media; psychology of gender and power.

Course: SS07 Prerequisite: SSB003 or SSB912

Co-requisites: SSB930 and SSB937

Credit Points: 12 Contact Hours: 3 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.

Course: ED50

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.

Course: ED50

Credit Points: 12 Contact Hours: 3 per week

### ■ SSB890 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 of effective social skills in interpersonal and group settings; understand theories of attitude, change and know implications of changing the behaviour of others; use skills necessary for starting a successful small business.

Course: PU45

Credit Points: 8 Contact Hours: 3 per week

### ■ SSB900 SOCIOLOGY

The impact of the social environment on human behaviour; provides a contextual understanding of society for practice in the social science professions; topics include culture and sub-cultures; the family and kinship; class and stratification; groups and communities; formal organisations; work; race and ethnicity; social deviance; social change.

Course: B550

Credit Points: 12 Contact Hours: 3 per week

### ■ SSB903 SOCIOLOGY FOR HEALTH PROFESSIONALS

An examination of sociology's origins, theories, perspectives and methodologies with reference to health and wellness, illness and premature mortality; empirical data on mortality and morbidity in contemporary Australia are presented and subjected to sociological analyses to indicate social patterns, processes promoting or constraining levels of health.

Course: PU42

Credit Points: 6 Contact Hours: 3 per week

### ■ SSB904 SOCIOLOGY OF HEALTH & ILLNESS

This unit analyses in detail the statement that: "The major determinants of health and illness are social, cultural, behavioural, occupational, regional, environmental and parental." Indigenous, migrant and rural health determinants in Australia are investigated. The importance of a social and cultural approach to environmental health issues is highlighted.

Course: PU42

Prerequisites: SSB903  
Credit Points: 6 Contact Hours: 3 per week

### ■ SSB905 PSYCHOLOGY FOR HEALTH PROFESSIONALS

This unit 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.

**Courses:** NS40, NS48

**Credit Points:** 8 **Contact Hours:** 3 per week

#### ■ SSB906 SOCIOLOGY FOR HEALTH PROFESSIONALS

Sociological theories and methods are studied to identify and analyse social relationships, social processes and social patterns relating to the social origins of illness and wellness; analysis 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; examines the health care system internally and in relation to its public use and its effectiveness in addressing contemporary health issues in Australia.

**Courses:** NS40, NS48

**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.

**Courses:** ME44, ME45

**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; the practical application and limitations of behavioural studies readings and case studies drawn from the building industry; the job and responsibilities of management; the functions and role of the manager including planning, organisation, control, budgeting and decision-making; styles of leadership; employee selection training, appraising and promotion; worker efficiency and working conditions.

**Courses:** CN31, CN32

**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 and its relevance to the radiographer.

**Course:** PH38

**Credit Points:** 4 **Contact Hours:** 2 per week

#### ■ SSB911 GENERAL PSYCHOLOGY

This course is designed to give optometry 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.

**Course:** OP42

**Credit Points:** 4 **Contact Hours:** 3 per week

#### ■ SSB912 PSYCHOLOGY

An introduction to general psychology providing limited skills training in some areas for personal development; research approaches; learning and

motivation; individuals and groups; the development of groups and the assessment of individuals within groups; perception, human development, and stress management, individual differences, psychological testing and personality.

**Course:** SS08

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ SSB913 DEVELOPMENTAL PSYCHOLOGY

A basis for the study of the promotion of psychological health of individuals at differing developmental stages; psychological adjustment, developmental theories, developmental aspects of childhood, adolescence, middle and old age and specific areas such as sexual development, death and dying; relationships to work and professional environments.

**Course:** SS07

**Prerequisite:** SSB912

**Incompatible with:** SSB001 and SSB005

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ SSB914 PSYCHOLOGY

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; emphasis is on the role of environmental health officers and occupational safety and health professionals.

**Courses:** PU42, PU44, PU45

**Credit Points:** 8 **Contact Hours:** 3 per week

#### ■ SSB915 SOCIAL PSYCHOLOGY

Philosophy of social science; historical perspective; social and self and personal space; social perception; research methodology; stereotypes and prejudice; conformity; persuasion; attraction and intimacy; help seeking and giving; aggression; leadership.

**Course:** SS07 **Prerequisites:** SSB003 or SSB912

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ SSB916 APPLIED COGNITIVE PSYCHOLOGY

Introduction to cognitive psychology; perception processes in cognition; includes problem-solving and memory decision-making; application of cognitive psychology. Artificial intelligence, ergonomics and job design also included.

**Prerequisite:** SSB912 or completion of 96 credit points of approved study.

**Courses:** IF51, IS43

**Credit Points:** 9 **Contact Hours:** 2 per week

#### ■ SSB917 PHYSIOLOGICAL & HEALTH PSYCHOLOGY

The physiological and cognitive bases to human behaviour; the nervous and endocrine systems of the body, the brain and its functioning; consciousness and altered states of consciousness; hormones and drugs and their effects on emotional expression; the relation of physiological and cognitive factors to motivation and behaviour.

**Course:** SS07

**Incompatible with:** SSB934

**Prerequisite:** SSB912 or 96 credit points of approved study.

**Credit Points:** 12 **Contact Hours:** 3 per week

## ■ SSB918 COUNSELLING FOR HEALTH PROFESSIONALS

A study of the psychology of illness and the counselling process for advanced radiographers.

Course: PH38

Credit Points: 4 Contact Hours: 2 per week

## ■ SSB920 ABNORMAL PSYCHOLOGY 1

The specific aspects of mental disorders, the interrelatedness of individual, family, community and environment in the development, maintenance and resolution of mental disorder; neurosis, psychosis, childhood and life span developmental disturbances, introduction to informed diagnosis and appropriate treatment of abnormal behaviour.

Courses: NS40, NS48

Credit Points: 8 Contact Hours: 3 per week

## ■ SSB921 COUNSELLING & CRISIS MANAGEMENT

The basic theories and principles of crisis intervention methodology; the roles of nurses in counselling clients who are currently experiencing difficulties; appropriate interpersonal and specific counselling skills to assist with this therapeutic communication process; short term strategies in crisis management.

Course: NS48

Credit Points: 8 Contact Hours: 3 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 health education.

Course: ED50

Credit Points: 12 Contact Hours: 3 per week

## ■ SSB923 CONTEMPORARY SOCIAL ISSUES

A study of social trends and contemporary issues in Australian society from a sociological perspective; examines media treatment and presentation of issues, in the form of news, current affairs and documentaries, and individual, community and governmental responses analysed; family crises, environmental issues, deviance, minority groups, health and welfare concerns, leisure and entertainment, social deviance, social exchange.

Course: SC30

Credit Points: 12 Contact Hours: 3 per week

## ■ SSB930 PSYCHOLOGICAL RESEARCH METHODS

An overview of the purposes and strategies of research; elementary research design; operationalising variables; descriptive statistics; distributions; measures of central tendency and spread; standard scores and percentiles; comparing variables through correlation will be addressed; using the computer.

Course: SS07

Credit Points: 12 Contact Hours: 3 per week

## ■ SSB933 COGNITIVE PSYCHOLOGY

History and development of cognitive psychology and cognitive science; the bases of cognition; perception; representation of knowledge; memory; the development of expertise, problem-solving and reasoning; cognitive development; computer models of cognition; applications of cognitive psychology.

Course: SS07 Prerequisite: SSB003 or SSB912

Incompatible with: SSB937

Credit Points: 12 Contact Hours: 3 per week

## ■ SSB934 BIOLOGY & BEHAVIOUR

The physiological and cognitive bases to human behaviour; the nervous and endocrine systems of the body, the brain and its functioning; consciousness and altered states of consciousness; hormones and drugs and their effects on emotional expression; and overall the relation of physiological and cognitive factors to motivation and behaviour. Some attention is also given to comparative psychology, with reference to animal/human behaviour.

Course: SS07 Prerequisite: SSB003 or SSB912

Credit Points: 12 Contact Hours: 3 per week

## ■ SSB936 PERSONALITY & PSYCHOPATHOLOGY

The concept of personality from the viewpoints of theory, research and assessment/application; functional and dysfunctional aspects of personality, in relation to adaptive and maladaptive behaviour within specific situational contexts; the integration of traditional theoretical perspectives - psychoanalytic, trait, humanistic and social-cognitive - with more modern perspectives; research methods in personality studies, validity and reliability of personality profiles, research applications to real personal and social issues, biological issues in behaviour, cultural influences, genetic impacts on personality, environmental effects on personality including workplace situations, life-style changes, motivation and personality, psychopathology of personality, labelling and stigma, coping mechanisms, defensive behaviours, eccentricity, individual differences.

Course: SS07

Credit Points: 12 Contact Hours: 3 per week

## ■ SSB937 APPLIED COGNITIVE PSYCHOLOGY

An introduction to cognitive psychology; perception processes in cognition; memory processes; problem-solving and decision-making; the development of intelligence application of cognitive psychology. Artificial intelligence, ergonomics and job design also included as topics.

Courses: IF52, IS43, IT20, SS07

Prerequisite: SSB912 or 96 credit points of approved study.

Incompatible with: SSB933

Credit Points: 12 Contact Hours: 3 per week

## ■ SSB938 PSYCHOLOGY OF VIOLENCE

Types of violence including family violence, crime (assault, threats, robbery with violence, rape, murder, abduction, torture), war; reactions to violence (general post-trauma and specific effects); service responses including those focused on families, community networks, social support, counselling and therapy, group work; societal attitudes; responses to the perpetrators; differences between the effects of general trauma and personal violence; cultural and gender issues.

Course: SS07 Co-requisites: SSB017 and SSB946

Prerequisite: 24 credit points of approved second or third level psychology units.

Credit Points: 12 Contact Hours: 3 per week

## ■ SSB939 ALCOHOL & OTHER DRUG STUDIES

An advanced unit giving special attention to the following: what is a drug?; an overview of licit and illicit drugs; states of consciousness; models of use: assessment; and referral practices, theories and research into dependency, historical examples of drug use; Australian drug use; social reinforcement of drug use;

gender issues; cultural issues; physiology of drug use; power issues; crisis intervention; legal issues; mythology and drug use.

**Course:** SS07

**Prerequisites:** Any two of the following: SSB934, SSB936, SSB937, SSB946

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ SSB940 ETHICAL, LEGAL & PROFESSIONAL ISSUES IN PSYCHOLOGY

Issues will be chosen each year but will cover at least ten of the following topics: philosophy and the scientific method (paradigms old and new eg. constructionists and postconstructionists); ethics; gender; cross-cultural issues; legal issues (advocacy, litigation, expert witness, freedom of information); treatment issues (contentious treatments); psychology and social control (custodial issues); psychology in the public domain (T.V. pop psychology, marketing and advertising); psychologist as person (burnout, role conflicts); psychology as colonisation (exporting constructs to other cultures); psychology of violence and trauma.

**Course:** SS07

**Prerequisites:** 36 credit points of approved second or third year psychology units

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ SSB941 PSYCHOLOGICAL ASSESSMENT

Theory and principles underlying psychological or personal assessment and testing are involved; applications are primarily examined in personnel or organisational areas (such as the assessment of ability, interests, values, job satisfaction, commitment and morale, and other attitudinal measures); issues in clinical and counselling assessment using interviews for selection, work analysis, counselling and appraisal; practical application including project or assignment work involving a short organisational placement.

**Course:** SS07

**Prerequisite:** 36 credit points of second or third year psychology units.

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ SSB942 INDEPENDENT STUDY (PSYCHOLOGY)

Students either individually or in small groups, undertake one or several approved learning activities within an approved content area. Activities could include literature reviews, research (mini-thesis), project, practicum (work placement and report), classroom presentation to a selected class, and other activities.

**Course:** SS07

**Prerequisites:** 36 credit points of second or third year psychology units.

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ SSB943 OCCUPATIONAL & VOCATIONAL PSYCHOLOGY

The well-being and productivity of individuals and groups in the work force; the psychological and social effects of unemployment; career planning and choice; the transition from school or college to work; adjustment at work; interests, values and ethics inherent in or related to the different workplaces and professions; theories and models of career choice and development; health and adjustment at work; unemployment.

**Course:** SS07

**Prerequisite:** 36 credit points of second or third year psychology units.

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ SSB944 INDUSTRIAL & ORGANISATIONAL PSYCHOLOGY

This unit examines human factors in job design, occupational health and safety, work and personal motivation, the assessment of suitability and/or of performance, and the qualities needed in career advancement.

**Course:** SS07

**Prerequisites:** SSB950 and at least one of SSB017 or SSB915

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ SSB945 PSYCHOPATHOLOGY

The range of human behaviours and conditions deemed to be abnormal; the label 'abnormal' in an historical and cultural context; the epistemological bases for such labelling; the medical or disease model and the social learning or behavioural model.

**Courses:** NS48, NS49

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ SSB946 COUNSELLING THEORY & PRACTICE 2

Counselling issues and approaches in relation to loss and grief, post-traumatic stress, rehabilitation, drugs and substance abuse, relationship counselling, separation, sexual abuse, suicide, cultural differences, psychosis; current approaches to counselling including process work, brief psychotherapy, languaging and the construction of problems; group therapy; group counselling; analytic psychotherapy; ethical, social and moral issues in counselling.

**Course:** SS07

**Prerequisite:** SSB008

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ SSB947 COUNSELLING PSYCHOLOGY

Industrial and organisational counselling, career and occupational development, professional counselling issues including ethics in counselling; counselling practice within special areas eg. performance deterioration (employee programs); trauma, disabilities; the training and development of counselling psychologists. Practicum or workplace project.

**Course:** SS07

**Prerequisite:** HRB119 or SSB008

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ SSB948 ADVANCED DEVELOPMENTAL PSYCHOLOGY

History of research approaches with primary attention to the 1980's and 1990's, in each of the language, cognitive, moral and social development areas; child and youth and young adult development and the relation of progress and learning to whole of life development in the four areas; applications to crime and deviance (mainly moral and social development issues), education and culture (mainly language and cognition) and the workplace (mainly cognition, moral and social development aspects).

**Course:** SS07

**Prerequisites:** 36 credit points of second level psychology units including SSB005 or SSB913 as one of the units.

**Credit Points:** 12 **Contact Hours:** 3 per week

#### ■ SSB949 INTRODUCTION TO FAMILY THERAPY

Major concepts of systemic theory as applied to families; major models of family therapy eg. structural, strategic, systemic, solution focused; assessment of family structures and dynamics; using therapeutic teams eg. reflecting team; contemporary issues in family work eg. gender, ethnicity, changing family foundations; specific ethical issues eg. con-



fidentiality, record keeping, interaction with other systems, referral management; family dynamics.

**Course:** SS07

**Prerequisite:** SSB008

**Credit Points:** 12

**Contact Hours:** 3 per week

### ■ SSB950 RESEARCH DESIGN & DATA ANALYSIS

An overview of the scientific method; the use of the null hypothesis; Type I and Type II errors; issues of control; underlying assumptions; basic experimental and non-experimental design; inferential statistics; tests; simple regression; one-way analysis of variance; correlations and correlational analysis, computer-based statistical analysis; introduction to non-parametric analyses including Chi-Square and the analysis of ranked data. Introduction to the use of SAS or SPSS in statistical analysis.

**Course:** SS07

**Prerequisite:** SSB930

**Credit Points:** 12

**Contact Hours:** 3 per week

### ■ SSB951 ADVANCED STATISTICAL ANALYSIS

A specialist statistical program is taught for the preparation and support of students using quantitative procedures for research; procedures are practised on data available in ACSPI archives and/or from school and other research projects and will prepare for the collection of their own database for their major project; may be offered to postgraduate students enrolled in other QUT Schools and Faculties.

**Course:** SS07

**Prerequisite:** SSB950

**Credit Points:** 12

**Contact Hours:** 3 per week

### ■ SSB952 RESEARCH PROJECT

Review of principles in proposal development, hypothesis raising, research design and related analyses; differences between employer reports and academic reports; students will develop and carry out a project capable of report in both 'academic' and 'employer' form and two reports will be required, one for academic purposes and the other for practical and/or employer/consultant advisory purposes.

**Course:** SS07

**Prerequisites:** 60 credit points of second or third year psychology units

**Credit Points:** 12

**Contact Hours:** 3 per week

### ■ SSB953 SPECIAL TOPIC

Specifically, as determined by the special topic presenter in conjunction with the Head of School; usually at 'third year' level.

**Course:** SS07

**Prerequisites:** At least 144 credit points at degree level and specific units as required

**Credit Points:** 12

**Contact Hours:** 3 per week

### ■ SSB989 SOCIAL ANALYSIS OF LIFE-CYCLE & HEALTH

An examination of changing patterns of individual wellness, illness, and mortality often coinciding with life-cycle changes or 'Rites of Passage'; the social, cultural, anthropological and technological aspects of the pre-birth and post-death phases; analysis of the cyclical process; compared and contrasted with a psychological human developmental approach.

**Note:** Can be undertaken by students from other Faculties as an elective unit.

**Courses:** ED26, ED50

**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.

**Course:** SS10

**Credit Points:** 12

**Contact Hours:** 3 per week

### ■ SSP001 THEORY & PRACTICE OF COUNSELLING 1

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 compulsory.

**Course:** SS10

**Credit Points:** 12

**Contact Hours:** 3 per week

### ■ SSP003 COUNSELLING & HUMAN DEVELOPMENT

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.

**Course:** SS10

**Prerequisite:** SSP000 or 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.

**Course:** SS10

**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.

**Course:** SS10

**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.

**Course:** SS10

**Prerequisite:** SSP001

**Credit Points:** 8

**Contact Hours:** 3 per week

### ■ SSP007 THEORY & PRACTICE OF COUNSELLING 3

Historical development of psychoanalysis and analytic theory; psychodynamics in counselling practice; hypnosis and conscious phenomena in counselling; scientific credibility of psychoanalytic and analytic psychotherapy; neurosis and psychosis in counselling.

**Course:** SS10

**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.

Course: SS10

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.

Course: SS10

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.

Course: SS10

Prerequisite: SSP007

Credit Points: 8 Contact Hours: 3 per week

**■ SSP014 FAMILY THERAPY 1**

Self-awareness in family counselling; formation and models of the family; family systems perspectives and counselling approaches.

Course: SS10

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.

Course: SS10

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.

Course: SS10

Credit Points: 8 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.

Courses: PU62, PU68

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.

Course: BN30

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.

Courses: CN31, CN32, CN33, PU42

Credit Points: 4 Contact Hours: 2 per week

**■ SVB111 DATA PRESENTATION 1**

Drafting instruments and techniques; introductory survey drafting; introductory engineering drawing.

Courses: IF52, SV34

Co-requisite: SVB121

Credit Points: 6 Contact Hours: 3 per week

**■ SVB121 LAND SURVEYING 1**

Principles of surveying; surveying instrumentation; traversing; levelling; elements of tachymetry; contouring; elementary theory of error; plane surveying computations.

Course: IF52, SV34

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.

Course: SV34

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.

Course: CN31

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.

Course: SV34

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.

Course: IF52

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.

Course: IF52, SV34

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.

Course: IF52, SV34

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.

Course: SV34

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 experience record form, completed by both student and employer.

Course: SV34

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.

Course: CE42

Credit Points: 8 Contact Hours: 3 per week

**■ SVB311 DATA PRESENTATION 3**

Cadastral plan drawing; introduction to cartography; cartographic reproduction; mapping agencies.

Courses: IF51, IF52, SV34 Prerequisite: SVB111

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.

Courses: IF51, IF52, SV34 Co-requisite: MAB795

Prerequisites: MAB495, MAB499

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.

Courses: IF51, IF52, SV34 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.

Courses: IF51, IF52, SV34

Credit Points: 12 Contact Hours: 3 per week

**■ SVB393 LAND SURVEYING 3**

Cadastral surveying; field astronomy; off-campus field work.

Courses: IF51, IF52, SV34

Prerequisites: MAB495, 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.

Course: SV34

Contact Hours: 6 weeks

**■ SVB412 CARTOGRAPHIC PRACTICE**

Reprographic processes; colour systems, colour separation and colour correction; digital mapping techniques; cartographic data structures; geographical surfaces.

Courses: IF51, IF52, SV34

Prerequisite: SVB211, 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.

Courses: IF51, IF52, SV34 Prerequisite: SVB121

Co-requisites: SVB431, SVB442

Credit Points: 9 Contact Hours: 4 per week

**■ SVB431 OBSERVATIONS & ADJUSTMENTS 2**

Introduction to least squares adjustment; standard problems one and two; extensive practical applications to linear and non-linear problems with both univariate data sets.

Courses: IF51, IF52, SV34 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.

Courses: IF51, IF52, SV34 Co-requisite: SVB430

Prerequisites: MAB495, SVB121

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.

Courses: IF51, IF52, SV34 Co-requisite: SVB431

Prerequisites: MAB795, SVB343

Credit Points: 11 Contact Hours: 6 per week

**■ SVB451 LAND STUDIES B**

Introduction to theory of price; location theory; land economics.

Course: SV34

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.

Courses: IF51, IF52, SV34

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.

Courses: IF51, IF52, SV34

Prerequisites: CSB294, SVB211, SVB393

Co-requisite: SVB393, SVB573

Credit Points: 5 Contact Hours: 3 per week

**■ SVB535 LAND SURVEYING 5**

Hydrographic surveying; topographic surveying.

Courses: IF51, IF52, SV34

Prerequisites: MAB495, SVB121, 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.

Courses: IF51, IF52, SV34 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.

Courses: IF52, SV34

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.  
**Courses:** IF51, IF52, SV34  
**Prerequisite:** SVB473 **Co-requisite:** SVB412  
**Credit Points:** 4 **Contact Hours:** 2 per week

■ **SVB571 CADASTRE**  
Complex and modern problems involved in the cadastre.  
**Course:** SV34 **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.  
**Courses:** IF51, IF52, SV34 **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.  
**Course:** SV34  
**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.  
**Course:** SV34  
**Prerequisite:** SVB431 **Co-requisite:** SVB639  
**Credit Points:** 5 **Contact Hours:** 3 per week

■ **SVB636 LAND SURVEYING 6**  
Geophysical surveying; mine surveying; field astronomical observation.  
**Courses:** IF51, IF52, SV34  
**Prerequisites:** PHB170, SVB430  
**Credit Points:** 6 **Contact Hours:** 3 per week

■ **SVB639 OBSERVATIONS & ADJUSTMENTS 3**  
Design, pre-analysis and optimisation followed by execution, adjustment and assessment of horizontal (two-dimensional) control networks, traverse and level networks (one-dimensional).  
**Course:** SV34 **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.  
**Course:** SV34 **Co-requisite:** SVB639  
**Prerequisites:** PHB170, SVB430, SVB442  
**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.  
**Course:** SV34  
**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.  
**Courses:** EE43, IF51, SV34 **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.  
**Course:** SV34 **Prerequisites:** SVB561, SVB574  
**Credit Points:** 10 **Contact Hours:** 6 per week

■ **SVB670 LAND ADMINISTRATION 5**  
Organisation theory; development planning procedures; land development analysis.  
**Courses:** IF51, SV34  
**Prerequisites:** SVB451, SVB470  
**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.  
**Course:** SV34 **Prerequisite:** SVB470  
**Credit Points:** 6 **Contact Hours:** 3 per week

■ **SVB682 SEMINAR 2**  
Preparation and presentation of at least one technical seminar paper in a field germane to surveying.  
**Courses:** IF51, IF52, SV34  
**Prerequisites:** SVB282, successful completion of units 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.  
**Course:** SV34  
**Prerequisites:** Successful completion of units totalling not less than 85 hours of weekly contact time.  
**Credit Points:** 8 **Contact Hours:** 1 per week

■ **SVB684 MAP PRODUCTION PLANNING**  
Planning of photogrammetric projects, specifications, control, costs accuracy; critical path method.  
**Course:** SV34 **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.  
**Course:** SV34 **Prerequisites:** SVB311, SVB412  
**Co-requisite:** SVB443  
**Credit Points:** 16 **Contact Hours:** 4 per week

**■ SVB688 PROFESSIONAL PRACTICE A**

Preparing surveyors for professional practice either as employer or employee.

Course: IF51, IF52

**Prerequisites:** Successful completion of units totalling not less than 100 hours of weekly contact time 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 three dimensions, euler angles, datum transformations, the development of datums.

Course: SV34      **Co-requisite:** 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.

Course: SV34

**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.

Course: SV34

**Credit Points:** 9      **Contact Hours:** 4 per week

**■ SVP111 CADASTRAL SURVEYING 1**

The practice of cadastral surveying; off-campus field work on real surveys, partly in a camp situation; subdivision design of a broadhectare area; real urban and rural identification surveys; office reinstatement exercises; group title project, including council requirements, procedures, application and plan specification; full documentation and quality control on all projects; plan production.

Course: SV68

**Credit Points:** 26      **Contact Hours:** 356 total

**■ SVP112 SURVEY COMPUTING**

Computer applications in the practice of surveying; a study of various surveying and drafting packages; project management software; the operating system; elementary programming.

Course: SV68

**Credit Points:** 3      **Contact Hours:** 47 total

**■ SVP113 OFFICE OPERATIONS**

Written and oral communication; interviewing & seminar presentation; office management; industrial relations; preparation of a business plan.

Course: SV68

**Credit Points:** 7      **Contact Hours:** 90 total

**■ SVP114 PRACTICE LAW**

The significance of court decisions on professional indemnity; statutes and regulations affecting surveyors. Preparation of brief and appearance in practice court sessions in conjunction with the legal practice course.

Course: SV68

**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.

Course: SV68

**Credit Points:** 1      **Contact Hours:** 8 total

**■ SVP116 SURVEY PROJECT MANAGEMENT**

Management of a large project; initial planning; field survey; preparation of plans; final report; computerised time and cost analysis.

Course: SV68

**Credit Points:** 7      **Contact Hours:** 100 total

**■ SVP211 CADASTRAL SURVEYING 2**

The practice of cadastral surveying; off-campus field work on real surveys, partly in a camp situation; mining lease and real property surveys; office reinstatement exercises.

Course: SV68

**Credit Points:** 18      **Contact Hours:** 247 total

**■ SVP212 BUILDING CONTROL SURVEYS**

Horizontal and vertical building control surveys; calculation of building control points from architectural drawings; interpretation of plans; client relationships; off-campus field work, site inspections.

Course: SV68

**Credit Points:** 3      **Contact Hours:** 38 total

**■ SVP213 DETAIL SURVEYS**

Surveys for the location and presentation of natural and man-made detail; off-campus field work on real surveys, mainly in a camp situation; automated data capture and presentation.

Course: SV68

**Credit Points:** 2      **Contact Hours:** 30 total

**■ SVP214 MAPPING**

Mapping techniques and their relative costs; preparation of a mapping project, specifications and tender.

Course: SV68

**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. LIS and GPS workshops.

Course: SV68

**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. Written report based on inspections of government agencies.

Course: SV68

**Credit Points:** 3      **Contact Hours:** 38 total

**■ SVP217 ENGINEERING SURVEYING**

Engineering surveys for a variety of development projects; off-campus field work on real surveys, partly in a camp situation; on-site inspections; computerised data manipulation and processing.

Course: SV68

**Credit Points:** 16      **Contact Hours:** 210 total

**■ 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.

Course: CE21

**Credit Points:** 7      **Contact Hours:** 3 per week

#### ■ SVT343 PHOTOGRAMMETRY 2

Use of stereoplotters, relative and absolute orientation; radial line methods; terrestrial photogrammetry; differential rectification and orthophoto construction; positioning and identification of ground control; introduction to remote sensing; one evening visit to a mapping organisation.

Course: SV24

Prerequisite: SVT243

Co-requisite: SVT115

Credit Points: 8

Contact Hours: 3 per week

#### ■ SVT443 PHOTOGRAMMETRY 3

The operation of stereoplotters; aerial triangulation; compilation of maps.

Course: SV24

Prerequisite: SVT343

Credit Points: 8

Contact Hours: 3 per week

#### ■ SVT511 CAD SYSTEMS

Principles of digital mapping; use of an interactive graphics system for mapping operations.

Course: SV24

Prerequisite: SVT991

Credit Points: 8

Contact Hours: 3 per week

#### ■ SVT513 DIGITAL MAPPING

Advanced three-dimensional mapping; analytical plotting systems including digital and graphical mapping, digital elevation models and unconventional mapping.

Course: SV24

Prerequisites: SVT315, SVT443

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.

Course: SV24

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.

Course: SV24

Prerequisite: SVT115

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.

Course: SV24

Prerequisite: SVT642

Credit Points: 8

Contact Hours: 3 per week

#### ■ SVT826 CARTOGRAPHIC ADMINISTRATION

Government and public administration; theory of organisations and its application to mapping agencies.

Course: SV24

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.

Course: SV24

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.

Course: SV24

Prerequisites: SVT315, SVT991

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.

Course: SV24

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.

Course: SV24

Prerequisites: SVT315, SVT991

Credit Points: 8

Contact Hours: 3 per week













