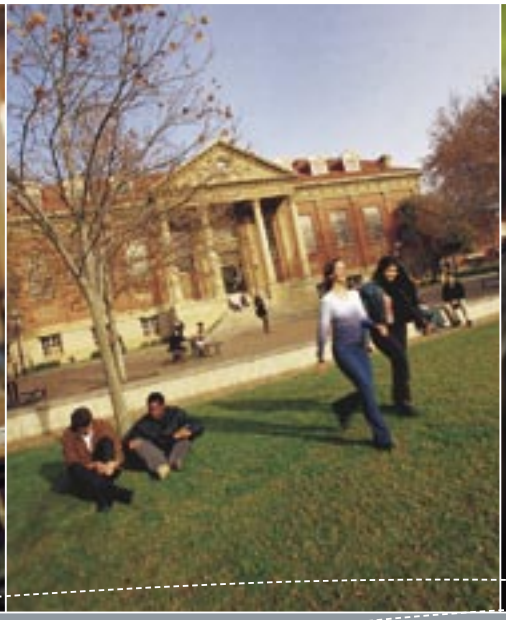
Undergraduate Calendar

THE UNIVERSITY OF ADELAIDE
AUSTRALIA

2005 The University of Adelaide



Life Impact The University of Adelaide

THE UNIVERSITY OF ADELAIDE
AUSTRALIA

The University of Adelaide

Calendar 2005

Handbook of
Undergraduate Programs

Address for Correspondence

Correspondence about academic programs, related matters (eg. admission, examinations, scholarships and prizes) and educational matters generally to:

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The Arms of the University

The heraldic description of the Coat of Arms is as follows:

Per pale Or and Argent an Open Book proper edged Gold

on a Chief Azure five Mullets, one of eight, two of seven,

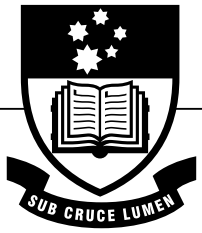
one of six and one of five points of the second,

representing the Constellation of the Southern Cross;

and the Motto associated with the Arms is

Sub Cruce Lumen

'The light (of learning) under the (Southern) Cross'



The University of Adelaide - Graduate Attributes

The University of Adelaide is a research-intensive university which seeks to develop graduates of international distinction by supporting high quality education.

The University of Adelaide provides an environment where students are encouraged to take responsibility for developing the following attributes:

1 Knowledge and understanding of the content and techniques of a chosen discipline at advanced levels that are internationally recognised.

2 The ability to locate, analyse, evaluate and synthesise information from a wide variety of sources in a planned and timely manner.

3 An ability to apply effective, creative and innovative solutions, both independently and cooperatively, to current and future problems.

4 Skills of a high order in interpersonal understanding, teamwork and communication.

5 A proficiency in the appropriate use of contemporary technologies.

6 A commitment to continuous learning and the capacity to maintain intellectual curiosity throughout life.

7 A commitment to the highest standards of professional endeavour and the ability to take a leadership role in the community.

8 An awareness of ethical, social and cultural issues and their importance in the exercise of professional skills and responsibilities.

Contents

The information in this volume is accurate as at 10 October 2004

ACADEMIC PROGRAM RULES

Centre for Aboriginal Studies in Music

Associate Diploma in Aboriginal Studies in Music 3

School of Architecture, Landscape Architecture and Urban Design

Bachelor of Architecture 13

Bachelor of Design Studies 7

Bachelor of Landscape Architecture 17

Bachelor of Architecture/Bachelor of Landscape Architecture 14, 18

Graduate Certificate/Diploma in Design Studies.....21

Graduate Certificate/Diploma in Design Studies (Landscape).....21

School of Commerce

Bachelor of Business Information Technology 27

Bachelor of Commerce

Bachelor of Commerce (Accounting)

Bachelor of Commerce (Corporate Finance)

Bachelor of Commerce (International Business)

Bachelor of Commerce (Management)

Bachelor of Commerce (Marketing) 31

Dental School

Bachelor of Dental Surgery 39

Bachelor of Oral Health 44

Bachelor of Science in Dentistry (Honours) 48

School of Economics

Bachelor of Economics 53

Bachelor of Economics (International Agricultural Business).....59

Bachelor of Finance

Bachelor of Finance (International)

Bachelor of Finance (Quantitative) 63

School of Education

Bachelor of Teaching.....71

Faculty of Engineering, Computer and Mathematical Sciences

Bachelor of Computer Sciences.....77

Bachelor of Computer Sciences (Software Engineering.....77

Bachelor of Engineering 90

Bachelor of Mathematical and Computer Sciences.....77

Faculty of Humanities and Social Sciences

Diploma in Languages 159
Bachelor of Arts 161
Bachelor of Arts (Asian Studies) 161
Bachelor of Arts (European Studies) 161
Bachelor of Environmental Studies.....178
Bachelor of International Studies 181
Bachelor of Media.....184
Bachelor of Social Sciences.....187
Bachelor of Arts (Honours).....191
Bachelor of Arts (Asian Studies)(Honours).....191
Bachelor of Arts (European Studies)(Honours).....191
Bachelor of Environmental Studies (Honours) 193
Bachelor of International Studies (Honours).....195
Bachelor of Social Sciences (Honours) 196

School of Law

Bachelor of Laws 201

Medical School

Bachelor of Health Sciences 209
Bachelor of Medical Science (Honours) 221
Bachelor of Medicine and Bachelor of Surgery 214
Bachelor of Psychology 223
Bachelor of Psychology (Honours).....227

Elder School of Music

Certificate III in Music 233
Certificate IV in Music (Classical).....233
Certificate IV in Music (Jazz) 233
Certificate IV in Music (Technology) 233
Diploma in Music (Jazz).....233
Bachelor of Music 238
Bachelor of Music Education.....238
Bachelor of Music Studies 238
Bachelor of Music (Honours) 238
Bachelor of Music Education (Honours) 238
Bachelor of Music Studies (Honours) 238
Appendix : Single Study Courses in the Elder School of Music 250

Faculty of Sciences

Diploma in Agricultural Production 259
Diploma in Natural Resource Management 261
Diploma in Wine Marketing.....263
Bachelor of Agriculture 265
Bachelor of Food Technology and Management....268
Bachelor of Natural Resource Management 270
Bachelor of Oenology 273
Bachelor of Rural Enterprise Management 274
Bachelor of Science 276
Bachelor of Science (Agricultural Science) 283
Bachelor of Science (Animal Science) 285
Bachelor of Science (Biomedical Science) 287
Bachelor of Science (Biotechnology).....289

Bachelor of Science (Ecochemistry).....291
Bachelor of Science (Evolutionary Biology) 293
Bachelor of Science (High Performance Computational Physics)(Honours).....295
Bachelor of Science (Jurisprudence).....297
Bachelor of Science (Molecular and Drug Design) 299
Bachelor of Science (Molecular Biology) 301
Bachelor of Science (Nanoscience and Materials) 303
Bachelor of Science (Optics & Photonics) 304
Bachelor of Science (Space Science and Astrophysics) 306
Bachelor of Science (Sustainable Envrionments) ..308
Bachelor of Science (Viticulture).....311
Bachelor of Arts and Bachelor of Science.....313
Bachelor of Wine Marketing 314

SYLLABUSES

Courses are listed in alphabetical order under the following disciplines:

Aboriginal Studies in Music 321
Accounting.....325
Agricultural Business.....327
Agriculture 329
Agronomy 330
Anatomical Science 333
Ancient Greek 336
Animal Science 339
Anthropology.....342
Applied Ecology 348
Architecture 352
Asian Studies.....355
Biochemistry 359
Biology 362
Biometry 363
Biotechnology 364
Chemistry.....364
Chinese 369
Classical Studies 372
Commerce 376
Commercial Law 376
Computer Science 377
Corporate Finance 383
Dentistry 384
Design Studies 390
Economics 399
Education 406

Engineering:
Chemical....409
Civil....418
Electrical & Electronic....428
Mechanical....436
Petroleum....447
English....452
Environmental Biology....458
Environmental Studies....464
European Studies....467
Food Technology & Management....470
French Studies....472
Gender Studies....476
General Practice....478
Genetics....479
Geography....482
Geology....486
German Studies....492
History....496
Horticulture....501
Indonesian....503
Information Systems....505
International Studies....505
Italian....506
Japanese....507
Labour Studies....509
Landscape Architecture....510
Latin....513
Law....515
Linguistics....534
Management....536
Marketing....537
Mathematics....538
Media....552
Medicine....555
Microbiology....562
Modern Greek....566
Music....567
Music - VET....593
Obstetrics & Gynaecology....599
Oenology....600
Oral Health....603
Pathology....606
Pharmacology....607
Philosophy....609
Physics....614
Physiology....622
Plant Science....625
Politics....627
Psychiatry....634
Psychology....634
Public Health....638
Social Science....642
Soil & Water....644
Spanish....647
Statistics....649
Viticulture....654
Wine Marketing....656
Index of Courses....663

Centre for Aboriginal Studies in Music

Contents

www.adelaide.edu.au

Associate Diploma in Aboriginal Studies in Music (New)
Ass.Dip.Ab.St.Mus.(New).....3

Undergraduate awards in the Centre for Aboriginal Studies in Music

- Associate Diploma in Aboriginal Studies in Music
- Associate Diploma in Aboriginal Studies in Music (New)

Associate Diploma in Aboriginal Studies in Music (New)

Academic Program Rules

1 General

The Associate Diploma is intended for Aboriginal and Torres Strait Islander people only.

2 Duration of program

The course of study for the Associate Diploma in Aboriginal Studies in Music (New) shall normally extend over two academic years of full-time study or the equivalent.

3 Admission

3.1 Admission to this course shall normally be through satisfactory completion of the CASM Foundation Year

3.2 For those applicants who have not completed the CASM Foundation Year admission will be based upon equivalent studies passed at another tertiary institution, or relevant musical experience of at least two years and assessed ability.

3.3 An applicant will not be permitted to defer an offer of admission to the course.

4 Assessment and examinations

4.1 A candidate shall not be eligible to present for examination unless the prescribed classes have been regularly attended, and the written, practical or other work required has been completed to the satisfaction of the teaching staff concerned.

4.2 In determining a candidate's final result the examiners may take into account oral, written, practical and examination work, provided that the candidate has been given adequate notice at the commencement of the teaching of the course of the way in which work will be taken into account and of its relative importance in the final result.

4.3 There will be six classifications of pass in the final assessment of any course offered within the Associate Diploma in Aboriginal Studies in Music (New): Pass with High Distinction, Pass with Distinction, Pass with Credit, Pass, Satisfactory and Non Graded Pass.

If the Pass classification be in two divisions, a pass in the higher division may be prescribed for admission to further studies in that course or to other courses.

4.4 A candidate who fails a course, or who obtains a lower division pass and who desires to take that course again shall, unless exempted wholly or partially therefrom by the Head of Department, again complete the required work in that course to the satisfaction of the teaching staff concerned.

4.5 A candidate who has twice failed any course for the course may not enrol for that course again or for any other course which, in the opinion of Head of Department, contains a substantial amount of the same material, except by special permission of Head of Department and then only under such conditions as Head of Department may prescribe.

4.6 A candidate who is not granted permission to sit for an examination, or who does not attend all or part of the examination after having substantially the full course of instruction in that course, shall be deemed to have failed the examination.

5 Qualification requirements

5.1 Academic program

5.1.1 The courses listed for each level under Program Rule 5.1.5 below need not all be taken in the one and same year. A candidate who has satisfied the prerequisite requirements for enrolment in later level courses may so enrol before completing all the courses of the preceding level.

5.1.2 The requirements for each course must normally be completed in one year of study. The Head of Department may permit a candidate to complete the requirements of a course over a period of two years on such conditions as it may determine.

5.1.3 Except where otherwise determined by the Head of Department,, a candidate who is eligible in any year to enrol in MUSIC 1009A/B Practical Music Study I MS (and MUSIC 1002A/B Practical Music Study I CM, MUSIC 2020A/B Practical Music Study II MS or MUSIC 2006A/B Practical Music Study II CM) and fails to do so, and who wishes to enrol in one of these courses in a subsequent year, shall be required to attend an audition and to reach a minimum audition standard for enrolment in the course in question before being authorised to so enrol.

5.1.4 Candidates must obtain the approval of Head of Department, or nominee, for the proposed courses of study and are required to take part in the general practical work of the Centre for Aboriginal Studies in Music.

5.1.5 To qualify for the Associate Diploma candidates shall satisfactorily complete the requirements for the courses listed below:

Level 1

either

MUSIC 1009A/B Practical Music Study I MS Pt 1 & 2	4
MUSIC 1010A/B Theory of Music I MS Pt 1 & 2	3
MUSIC 1011A/B Research Studies (CASM) I MS Pt 1 & 2	3
MUSIC 1013A/B Performance I MS Pt 1 & 2	4
MUSIC 1021A/B Style Studies I MS Pt 1 & 2	2

or

MUSIC 1001A/B Style Studies I CM Pt 1 & 2	2
MUSIC 1002A/B Practical Music Study I CM Pt 1 & 2	4
MUSIC 1014A/B Performance I CM Pt 1 & 2	4
MUSIC 1016A/B Research Studies (CASM) I CM Pt 1 & 2	3
MUSIC 1020A/B Theory of Music I CM Pt 1 & 2	3

and

MUSIC 1007A/B Studies in Community & Culture I Pt 1 & 2	3
MUSIC 1015A/B General Studies (New) I Pt 1 & 2	2
MUSIC 1018A/B Practical Extension I Pt 1 & 2	2
MUSIC 1024A/B Aural Development (New) I Pt 1 & 2	1

Level II

either

MUSIC 2002A/B Style Studies II MS Pt 1 & 2	2
MUSIC 2003A/B Theory of Music II MS Pt 1 & 2	4
MUSIC 2004A/B Performance II MS Pt 1 & 2	4
MUSIC 2019A/B Research Studies (CASM) II MS Pt 1 & 2	4
MUSIC 2020A/B Practical Music Study II MS Pt 1 & 2	4

or

MUSIC 2000A Theory of Music II CM Pt 1 & 2	4
MUSIC 2001A/B Style Studies II CM Pt 1 & 2	2
MUSIC 2006A/B Practical Music Study II CM Pt 1 & 2	4
MUSIC 2009A/B Performance II CM Pt 1 & 2	4
MUSIC 2023A/B Research Studies (CASM) II CM Pt 1 & 2	4

and

MUSIC 2005A/B Practical Extension II Pt 1 & 2	2
MUSIC 2011A/B Aural Development(New) II Pt 1 & 2	1

and

either

MUSIC 2016A/B Studies in Community & Culture II Pt 1 & 2	3

or

MUSIC 2017A/B General Studies (New) II Pt 1 & 2	3

5.1.6 A candidate who satisfactorily completes all of the requirements of Level 1 of the course, but does not wish to proceed to the Associate Diploma may be awarded, upon application, the Advanced Certificate in Aboriginal Studies in Music.

5.1.7 A candidate who holds the Certificate in Aboriginal Studies in Music or the Advanced Certificate in Aboriginal Studies in Music shall surrender the Certificate before being admitted to the Associate Diploma.

5.2 Unacceptable combinations of courses

No candidate will be permitted to count towards an award any course, together with any other course, which, in the opinion of the Faculty concerned, contains a substantial amount of the same material; and no course or portion of a course may be counted twice towards an award.

5.3 Graduation

Subject to Chapter 89 of the Statutes, candidates who have satisfied the requirements for this award of the University shall be admitted to the award at a graduation ceremony for the purpose.

6 Special circumstances

When in the opinion of the relevant Faculty special circumstances exist, the Council, on the recommendation of the Faculty in each case, may vary any of the provisions of the Academic Program Rules for any particular award

Note:

MS denotes Music Studies Stream

CM denotes Community Musician Stream

School of Architecture, Landscape Architecture & Urban Design

Contents

www.arch.adelaide.edu.au

Bachelor of Architecture
B.Arch 13

Bachelor of Design Studies
B.Des.St. 7

Bachelor of Landscape Architecture
B.L.Arch. 17

Bachelor of Architecture/Bachelor of Landscape Architecture
B.Arch/B.L.Arch. 14, 18

Graduate Certificate in Design Studies
Grad.Cert.Des.St.

Graduate Certificate in Design Studies (Landscape)
Grad.Cert.Des.St.(Landscape)

Graduate Diploma in Design Studies
Grad.Dip.Des.St.

Graduate Diploma in Design Studies (Landscape)
Grad.Dip.Des.St.(Landscape) 21

Undergraduate awards in the School of Architecture, Landscape Architecture and Urban Design

- Degree of Bachelor of Architecture
- Degree of Bachelor of Design Studies
- Degree of Bachelor of Landscape Architecture
- Degree of Bachelor of Architecture/Bachelor of Landscape Architecture
- Honours degree of Bachelor of Design Studies
- Honours degree of Bachelor of Architecture
- Honours degree of Bachelor of Landscape Architecture
- Graduate Certificate in Design Studies
- Graduate Certificate in Design Studies (Landscape)
- Graduate Diploma in Design Studies
- Graduate Diploma in Design Studies (Landscape)

Notes on Delegated Authority

1 Council has delegated the power to approve minor changes to the Academic Program Rules to the Executive Deans of Faculties.

2 Council has delegated the power to specify syllabuses to the Head of each department or centre concerned, such syllabuses to be subject to approval by the Faculty or by the Executive Dean on behalf of the Faculty.

Bachelor of Design Studies

Academic Program Rules

1 General

1.1 There shall be a degree and an Honours degree of Bachelor of Design Studies. The Bachelor degree shall be awarded with a major in either Architectural Studies or Landscape Studies or Architectural and Landscape Studies.

1.2 A graduate of the University or of another educational institution who wishes to proceed to the degree of Bachelor of Design Studies may do so under the requirements of these Academic Program Rules.

1.3 A candidate who has completed courses under any repealed regulations for the Bachelor of Architectural Studies shall have status in equivalent courses under the Academic Program Rules.

2 Duration of program

2.1 The program of study for the Bachelor degree shall extend over three years of full-time study or the equivalent. Students shall pass courses to the value of at least 24 units at each of the three levels. The unit values of the courses are contained in Academic Program Rule 5.1.

2.2 A candidate may interrupt the program for such periods and on such conditions as may in each case be determined by the School.

2.3 Students wishing to interrupt their studies in accordance with 2.2 above must apply through the School Executive Officer for permission and obtain beforehand the approval of the Head on behalf of the School for leave of absence for a defined period.

2.4 A student who leaves the program without approval or who extends a leave of absence beyond the time period approved under 2.2 above shall be deemed to have withdrawn his or her candidature for the degree but may reapply for admission to the program in accordance with the procedures in operation at the time.

2.5 Students who have interrupted their studies in the prescribed courses may be required to resume at such a point in the program and/or to undertake such additional or special program of study as the Head of the School deems appropriate.

3 Admission

3.1 Status, exemption and credit transfer

A candidate who has passed undergraduate, or equivalent, level courses in the Faculty or in other faculties of the University or in other educational institutions, may, on written application to the Head of the School of Architecture, Landscape Architecture and Urban Design, be granted such exemption from these Academic Program Rules as the Faculty may determine, save that a candidate shall always be required to satisfy the examiners in all courses of the final year of the program.

3.2 Articulation with other awards

3.2.1 It is possible for students in Design Studies to elect to complete both the Bachelor of Design Studies and Bachelor of Laws academic programs in a total of five and a half years of full-time study*, provided they are accepted into the Bachelor of Laws academic program. Students wishing to pursue this academic plan may apply for admission through the South Australian Tertiary Admissions Centre by September of the year before they commence University study or in a later year of the program.

*Some overload may be required for students taking the B.Des.St. (Landscape Studies major) or B.Des.St. (Architectural and Landscape Studies major).

The following program of study for the B.Des.St. (with an Architectural Studies major) is recommended

Level I

Courses listed in Academic Program Rule 5.1 at Level I of the degree of B.Des.St. to the value of at least 21 units together with LAW 1001 Introduction to Australian Law (4).

Level II

DESST 2005 Technology in the Built Environment II

DESST 2016 Twentieth Century Architecture and Landscapes II

DESST 2023 Design and Environments II

DESST 2034 Domestic Scale Construction II

LAW 1002 Law of Torts

LAW 1003 Law of Contract

Level III

DESST 3006 Building Design Studio III

DESST 3011 Issues in Urban and Landscape Sustainability III

Level III Electives to the value of at least 12 units from the LL.B degree.

Before enrolment in the Level III courses of the above scheme, students should consult the Law Program Adviser.

Students should seek advice about course choices if they wish to undertake the B.Des.St. (with a Landscape Studies major) or B.Des.St. (with an Architectural and Landscape Studies major) together with the Bachelor of Laws.

See also the Academic Program Rules of the LL.B. degree and in particular, the Introductory Notes to the LL.B. Syllabuses.

3.2.2 It is possible for students in Design Studies to elect to complete both the Bachelor of Design Studies and Bachelor of Commerce academic programs in a total of four years of full-time study by taking some overload, provided they are accepted into the Bachelor of Commerce academic program after they have completed at least one equivalent full-time year of the Bachelor of Design Studies. Students wishing to pursue this academic plan may apply for admission to the Bachelor of Commerce through the South Australian Tertiary Admissions Centre by September of their first year in the B.Des.St. program.

Students should seek advice regarding course choices in the B.Des.St. and B.Commerce programs.

3.2.3 A graduate in another faculty or other educational institution who wishes to qualify for the degree of Bachelor of Design Studies in the Faculty and to count towards that degree courses which have already been presented for another degree may do so providing such a candidate presents a range of courses which fulfils the requirements of Academic Program Rule 5.1 below, including courses to the value of 36 units which must include compulsory and elective Level III courses to the value of at least 24 units which have not been presented for any other degree.

4 Assessment and examinations

4.1 There shall normally be four classifications of pass in the final assessment of any course for the Bachelor degree, as follows: Pass with High Distinction, Pass with Distinction, Pass with Credit, Pass. If the Pass classification is in two divisions a pass in the higher division may be prescribed in the syllabuses as a prerequisite for admission to further studies in that course or to other courses. Results in certain courses as specified in the Academic Program Rules will not be classified.

4.2 A candidate shall not be eligible to attend for examination unless the prescribed work has been completed to the satisfaction of the teaching staff concerned.

4.3 In determining a candidate's final result in a course (or part of a course) the examiners may take into account oral, written, practical and examination work, provided that the candidate has been given adequate notice at the commencement of the teaching of the course of the way in which work will be taken into account and of its relative importance in the final result.

4.4 A candidate who fails a course or who obtains a lower division pass and who desires to take that course again shall, unless exempted wholly or partially therefrom by the Head of School or Head of the Department concerned, again complete the required work in that course to the satisfaction of the teaching staff concerned.

4.5 A candidate may present for the degree courses at Level I, II or III with an aggregate units value not exceeding 6 units for which a conceded pass grade has been awarded, provided that such courses do not have a value of more than three units each.

4.6 A candidate who has twice failed the examination in any elective course for the Bachelor degree may not enrol for that course again or for any other elective course which in the opinion of the School contains a substantial amount of the same material, except by special permission of the School and then only under such conditions as the School may prescribe.

4.7 There shall be three classifications of Pass in the final assessment of the course for the Honours degree as follows: First Class, Second Class and Third Class. The Second Class classification shall be divided into two divisions as follows: Division A and Division B.

* Conceded Passes are not awarded in the core courses listed in 5.1

4.8 Review of academic progress

If in the opinion of the Faculty a candidate for the degree is not making satisfactory progress, the Faculty may, with the consent of the Council, terminate the candidature and the candidate shall cease to be enrolled for the degree.

5 Qualification requirements

5.1 Academic program

5.1.1 The Bachelor degree

5.1.1.1 To qualify for the degree of Bachelor of Design Studies with an Architectural Studies major a candidate shall pass the following courses to the value of at least 72 units:

Level I

DESST 1006 Built Environments I	3
DESST 1008 Composing Architecture and Landscape I	3
DESST 1014 Construction I	3
DESST 1018 Image/Text/Architecture I	3
DESST 1023 Computer-Aided Design I	3
DESST 1024 Drawing Architecture and Landscape I	3
Level I Electives to the value of 6 units	

Level II

DESST 2005 Technology in the Built Environment II	4
DESST 2016 Twentieth Century Architecture and Landscapes II	4
DESST 2023 Design and Environments II	4
DESST 2034 Domestic Scale Construction II	4
Level II Electives to the value of 8 units	

Level III

DESST 3006 Building Design Studio III	6
DESST 3011 Issues in Urban and Landscape Sustainability III	6
Level III Electives to the value of 12 units	

5.1.1.2 To qualify for the degree of Bachelor of Design Studies with a Landscape Studies major a candidate shall pass the following courses to the value of at least 72 units:

Level I

DESST 1006 Built Environments I	3
DESST 1008 Composing Architecture and Landscape I	3
DESST 1014 Construction I	3
DESST 1018 Image/Text/Architecture I	3
DESST 1023 Computer-Aided Design I	3
DESST 1024 Drawing Architecture and Landscape I	3
Level I Electives to the value of 6 units	
Recommended elective:	
DESST 1025 Natural Systems and Design I	3

Level II

DESST 2005 Technology in the Built Environment II	4
DESST 2016 Twentieth Century Architecture and Landscapes II	4
DESST 2023 Design and Environments II	4
DESST 2034 Domestic Scale Construction II	4
Level II Electives to the value of 8 units including required elective	
DESST 2035 Natural Systems and Design II	4
[if not completed DESST 1025 Natural Systems and Design I]	

Level III

DESST 3011 Issues in Urban and Landscape Sustainability III	6
DESST 3022 Landscape Design Studio III	6
Level III Electives to the value of 12 units	

5.1.1.3 To qualify for the degree of Bachelor of Design Studies with an Architectural and Landscape Studies major a candidate shall pass the following courses to the value of at least 72 units:

Level I

DESST 1006 Built Environments I	3
DESST 1008 Composing Architecture and Landscape I	3
DESST 1014 Construction I	3
DESST 1018 Image/Text/Architecture I	3
DESST 1023 Computer-Aided Design I	3
DESST 1024 Drawing Architecture and Landscape I	3
Level I Electives to the value of 6 units	
Recommended elective:	
DESST 1025 Natural Systems and Design I	3

Level II

DESST 2005 Technology in the Built Environment II	4
DESST 2016 Twentieth Century Architecture and Landscapes II	4
DESST 2023 Design and Environments II	4
DESST 2034 Domestic Scale Construction II	4
Level II Electives to the value of 8 units including required elective	
DESST 2035 Natural Systems and Design II	4
[if not completed DESST 1025 Natural Systems & Design I]	

Level III

DESST 3006 Building Design Studio III	6
DESST 3011 Issues in Urban and Landscape Sustainability III	6
DESST 3022 Landscape Design Studio III	6
Level III Electives to the value of 6 units	

5.1.1.4 The following courses have been approved by the School of Architecture, Landscape Architecture and Urban Design as electives towards the Bachelor degree.

Design Studies courses

Level I, II and III courses listed below (subject to availability each year):

Level I

DESST 1001 Special Topic in Design Studies IB	3
DESST 1004 Australian Architecture and Landscapes I	3
DESST 1007 Special Topic in Design Studies IA	3
DESST 1009 Art History and Theories IA	3
DESST 1013 An Introduction to Contemporary Arab Culture and Architecture	3
DESST 1019 Art History and Theories IB	3
DESST 1025 Natural Systems and Design I	3
DESST 1026 Special Topic in Design Studies IC	3

Level II

DESST 2000 Special Topic in Design Studies IIC	4
DESST 2003 Islamic Architecture and Gardens II	4
DESST 2006 Special Topic in Design Studies IIB	4
DESST 2008 Computer-Aided Design IIB ##	4
DESST 2010 Conservation in the Built Environment II ##	4
DESST 2012 Colonial and Contemporary Issues in South Asian Architecture II	4
DESST 2013 Special Topic in Design Studies IIE	4
DESST 2014 Special Topic in Design Studies IIF	4
DESST 2022 Special Topic in Design Studies IIA	4
DESST 2025 Computer-Aided Design IIA #	4
DESST 2027 Special Topic in Design Studies IID	4
DESST 2032 Art History and Theories IIB	4
DESST 2033 Art History and Theories IIA	4
DESST 2035 Natural Systems and Design II	4

Level III

DESST 3000 Conservation in the Built Environment III##	6
DESST 3002 Computer-Aided Design IIIA#	6
DESST 3005 Special Topic in Design Studies IIIA	6
DESST 3012 Colonial and Contemporary Issues in South Asian Architecture III	6
DESST 3013 Computer-Aided Design IIIB##	6
DESST 3014 Special Topic in Design Studies IIID	6
DESST 3016 Special Topic in Design Studies IIIC	6
DESST 3017 Special Topic in Design Studies IIIE	6
DESST 3018 Special Topic in Design Studies IIIF	6
DESST 3023 Islamic Architecture and Gardens III	6
DESST 3024 Special Topic in Design Studies IIIB	6

Economics courses

Approved courses listed in the Academic Program Rules of the degree of Bachelor of Economics.

Engineering courses

Level I

C&ENVENG 1000 Engineering Planning and Design	2
C&ENVENG 1001 Statics	2
CHEM ENG 1002 Engineering Computing I	2
MECH ENG 1000 Dynamics	2
MECH ENG 1001 Design Graphics	2

Humanities and Social Sciences courses

Level I courses listed in Academic Program Rule 6.12.1, Level II courses listed in Academic Program Rule 6.12.2, and Level III courses listed in Academic Program Rule 6.12.3 of the degree of Bachelor of Arts.

Law courses*

Level I

LAW 1001 Introduction to Australian Law	4

Level II

LAW 1002 Law of Torts	4
LAW 1003 Law of Contract	4

Level III

LAW 1004 Law of Crime	4
LAW 1005 Property Law	4
Law elective	4

* available only to students who have gained admission to Law studies through SATAC

\# available even years only

\## available odd years only

Mathematical and Computer Sciences courses

Level I courses listed in Academic Program Rule 4.2.1.1, Level II courses listed in Academic Program Rule 4.2.2.1, and Level III courses listed in Academic Program Rule 4.2.3.1 of the degree of Bachelor of Mathematical and Computer Sciences.

Music courses

Level I courses listed in Academic Program Rules of the degree in the Elder School of Music and approved by that School.

Science courses

Level I courses listed in the Academic Program Rules of the degree of Bachelor of Agricultural Science

Level I, II and III courses listed in Academic Program Rules 5.9.1, 5.9.3 and 5.9.7 of the degree of Bachelor of Sciences in the Faculty of Sciences.

Courses offered by other faculties but not listed above may be acceptable on application and subject to the recommendation of the Head of the School of Architecture, Landscape Architecture and Urban Design and the department concerned, and the approval of the School.

Courses from other institutions

Such courses provided by other institutions as may be approved from time to time on the recommendation of the Head of School of Architecture, Landscape Architecture and Urban Design.

5.1.1.5 No candidate will be permitted to count for an award any course together with any other course which, in the opinion of the School contains a substantial amount of the same material; and no course or portion of a course may be counted twice towards the degree. No candidate may present the same section of a course in more than one course for a degree.

5.1.1.6 A candidate who has completed courses under any repealed Academic Program Rules in the Bachelor of Architectural Studies degree prior to semesterisation and amendments of the program in 1989, or in the Bachelor of Architectural Studies program between 1989 to 1996, shall have status in equivalent courses under these Academic Program Rules.

5.1.1.7 When in the opinion of the Faculty special circumstances exist for a candidate affected by Academic Program Rules 1.3 and 5.1, the Council on the recommendation of the Faculty in each case may vary any of the provisions of these Academic Program Rules.

5.1.2 The Honours degree

5.1.2.1 A candidate who wishes to proceed to the Honours degree must obtain the approval of the Head of School, normally by 15 December of the year preceding enrolment.

5.1.2.2 A candidate for the Honours degree of Bachelor of Design Studies shall pass examinations in DESST 4001A/B Honours Design Studies which shall consist of either one topic to the value of 24 units or two topics to the value of up to 12 units each of an Honours course*.

5.1.2.3 A candidate may, subject to the approval of the Head of School in each case, include in their Honours year a course to the value of 12 units taught in a department/school in another faculty; such candidates must consult the Head of the Department/Head of School concerned and must apply in writing to the School Executive Officer by 15 December of the year preceding the proposed Honours year, seeking the approval of the Head of the School of Architecture, Landscape Architecture and Urban Design.

5.1.2.4 The work of the Honours year may not be commenced before a candidate has qualified for the Bachelor degree, or has qualified for a degree regarded by the School of Architecture, Landscape Architecture and Urban Design as equivalent and has completed such prerequisite courses (if any) as may be prescribed in the syllabuses.

5.1.2.5 The work of the Honours year must be completed in one year of full-time study, save that on the recommendation of the Head of School, the School may permit a candidate to spread the work over two years but not more, under such conditions as the School may determine.

5.1.2.6 If a candidate is unable to complete the program for the Honours degree within the time allowed, or if the candidate's work is unsatisfactory at any stage of the program, or if the candidate withdraws from the program such fact shall be reported to the School. The Head of School may permit the candidate to re-enrol for an Honours degree under such conditions (if any) as the Head may determine.

5.1.2.7 No exemption from any component of the requirements of 5.1.2 is permitted.

5.1.2.8 A candidate who satisfies the requirements for Honours shall be awarded the Honours degree, but the Faculty shall decide within which of the following classes and divisions the degree shall be awarded:

1	First Class
2A	Second Class div A
2B	Second Class div B
3	Third Class
NAH	Not awarded.

5.2 Graduation

Subject to Chapter 89 of the Statutes, candidates who have satisfied the requirements for any award of the University shall be admitted to that award at a graduation ceremony for the purpose.

6 Special circumstances

When in the opinion of the relevant Faculty special circumstances exist, the Council, on the recommendation of the Faculty in each case, may vary any of the provisions of the Academic Program Rules for any particular award.

* Information on the approved courses from which the prescribed combination may be chosen shall be advised in the preceding year by the School of Architecture, Landscape Architecture and Urban Design

Note: the courses to be offered in a particular year will depend upon the availability of staff.

Bachelor of Design Studies – Graduate Attributes

Students are encouraged to take responsibility for developing the following attributes:

Knowledge

- Knowledge to form and express deep criticism of architectural and landscape design objects from a broad perspective.
- Knowledge to generate and present relevant proposals for intervention in situations in the built environment.
- Knowledge to combine criticism and proposal generation into a working process of design.

Intellectual and social capabilities

- Instrumental: finding, ordering, sifting, filtering, organising information; intelligent use of library resources and research of library materials; information acquisition, collation and management from libraries and other sources.
- Visualising, representing and manipulating spatial objects: drawing and model making using hand and computer techniques.
- Writing: designing, outlining, and refining thought expressed with the written word, using hand and computer techniques.
- Speaking: designing, outlining, organising, and refining thought expressed with the spoken word.
- Computing: computational techniques using algorithms and data relationships.
- Working in groups: acting as both a leader and a member of a group of individuals.

Attitudes and values

- Critical Thinking: to present coherent intellectual structures within which observation, analysis, understanding and judgement of situations, texts and objects can be made; to demonstrate the relevance of these structures.
- Creative Action: to present current knowledge of the act of designing from both theoretical and practical perspectives; to demonstrate its application to the management of the design process.
- Architecture and Landscape Architecture: to presently accounts of the built and human modified environments, the processes of its production, and the positions, values and preferences that influence its forms and patterns; to demonstrate the relevance of these accounts.

Bachelor of Architecture

Academic Program Rules

1 General

1.1 There shall be a degree and an Honours degree of Bachelor of Architecture. A candidate may obtain either the Bachelor degree or the Honours degree but not both.

1.2 A candidate for admission to the program of study for the degree of Bachelor of Architecture must have obtained:

(a) the degree and/or Honours degree of Bachelor of Design Studies of the University of Adelaide subject to successful completion of courses comprising the Architectural Studies major *or*

(b) the Graduate Diploma in Design Studies of the University of Adelaide or an equivalent award from another educational institution accepted by the University for the purpose *or*

(c) the degree and/or Honours degree of Bachelor of Landscape Architecture of the University of Adelaide or an equivalent award from another educational institution accepted by the University for the purpose.

1.3 The School may in special cases and subject to such conditions (if any) as the Head of the School of Architecture, Landscape Architecture and Urban Design may see fit to impose in each case, accept as a candidate for the Bachelor of Architecture an applicant who does not hold the qualifications specified in 1.2 above but who has given evidence satisfactory to the Head of School of fitness to undertake work for the Bachelor of Architecture.

1.4 A candidate accepted under 1.2 and 1.3 above may be required to satisfactorily complete such preliminary work or qualifying studies as the Head of School may determine.

2 Duration of program

2.1 The program of study for the degree shall extend over two years of full-time study or the equivalent. Students shall pass courses to the value of at least 24 units at each of the two levels. The unit values of the courses are contained in Program Rule 5.2.

2.2 A candidate may interrupt the program for such periods and on such conditions as may in each case be determined by the School.

2.3 Students wishing to interrupt their studies in accordance with 2.2 above must apply through the School Executive Officer for permission and obtain beforehand the approval of the Head on behalf of the School for leave of absence for a defined period.

2.4 A student who leaves the program without approval or who extends a leave of absence beyond the time period approved under 2.2 above shall be deemed to have withdrawn his or her candidature for the degree but may reapply for admission to the program in accordance with the procedures in operation at the time.

2.5 Students who have interrupted their studies in the prescribed courses may be required to resume at such a point in the program and/or to undertake such additional or special program of study as the Head of the School deems appropriate.

3 Admission

3.1 Status, exemption and credit transfer

A candidate who has passed postgraduate level courses in the School or other faculties of the University or in other educational institutions, may on written application to the Head of School be granted such exemption from these Academic Program Rules as the School may determine, save that:

(a) no more than 12 units of the program may be undertaken through approved exchange programs *and*

(b) a candidate shall always be required to satisfy the examiners in all courses of the final year of the program.

4 Assessment and examinations

4.1 There shall normally be four classifications of pass in the final assessment of any course for the Bachelors degree, as follows: Pass with High Distinction, Pass with Distinction, Pass with Credit, Pass. If the Pass classification be in two divisions a pass in the higher division may be prescribed in the syllabuses as a prerequisite for admission to further studies in that course or to other courses. Results in certain courses as specified in the relevant Academic Program Rules will not be classified.

4.2 A candidate shall not be eligible to attend for examination unless the prescribed work has been completed to the satisfaction of the teaching staff concerned.

4.3 In determining a candidate's final result in a course (or part of a course) the examiners may take into account oral, written, practical and examination work, provided that the candidate has been given adequate notice at the

commencement of the teaching of the course of the way in which work will be taken into account and of its relative importance in the final result.

4.4 A candidate who fails a course or who obtains a lower division pass and who desires to take that course again shall, unless exempted wholly or partially therefrom by the Head of the School concerned, again complete the required work in that course to the satisfaction of the teaching staff concerned.

Note (not forming part of the Academic Program Rules):

Previous studies in the three-year Bachelor of Architecture under former Academic Program Rules and Regulations and Schedules.

Students who commenced their program of study towards the three-year Bachelor of Architecture under previous Specific Program Rules in 1995 or 1996, or Regulations and Schedules in 1994 or earlier, are subject to the following provision:

Students who commenced their studies towards the Bachelor of Architecture in previous years will normally complete their program of study under the provisions of the Specific Course Rules as published in Volume II of the University Calendar in 1996.

4.5 Review of academic progress

If in the opinion of the Faculty a candidate for the Bachelor of Architecture is not making satisfactory progress, the Faculty may, with the consent of the Council, terminate the candidature and the candidate shall cease to be enrolled for the degree.

5 Qualification requirements

5.1 Qualifying studies

5.1.1 A candidate selected under 1.2 or 1.3 for admission to the Bachelor of Architecture program may be required to satisfactorily complete such qualifying studies as determined by the School after consideration of advice from the Head of School.

5.1.2 Candidates undertaking qualifying studies must successfully complete those studies before they may undertake courses of the Bachelor of Architecture.

5.1.3 On the recommendation of the Head of School, a supplementary examination may be offered to a candidate undertaking qualifying studies.

5.1.4 A candidate who fails all or part of the qualifying studies may repeat them in another year only with the permission of the School after it has considered advice from the Head of School.

5.2 Academic program

5.2.1 To qualify for the degree of Bachelor of Architecture a candidate shall pass the following courses to the value of at least 48 units:

Level I

ARCH 4000 Architecture Studio IC	6
ARCH 4003 Architecture Studio ID	6
ARCH 4016 Architecture Studio IA	6
ARCH 4025 Architecture Studio IB	6

Level II

ARCH 5011 Architecture Project II	12
ARCH 5018 Architecture Studio II	8
ARCH 5024 Architecture Practice II	4

5.2.2 A candidate may not enrol in Level II courses unless he or she has passed at least 18 units of Level I courses.

5.3 Honours

5.3.1 A candidate who wishes to proceed to the Honours degree of Bachelor of Architecture must obtain the approval of the Head of School, normally by December 15 of the year preceding enrolment.

5.3.2 A document setting out guidelines approved by the School which contains requirements for admission and the criteria for the award of the Honours degree is available from the School Executive Officer.

5.3.3 A candidate for the Honours degree of Bachelor of Architecture must, in addition to completing the full program prescribed for the Bachelor degree, also pass an additional course ARCH 5002 Advanced Studies in Architecture II as well as achieving a high classification of pass in the Level II courses for the Bachelor degree.

5.3.4 A candidate who satisfies the requirements for Honours shall be awarded the Honours degree, but the Faculty shall decide within which of the following classes and divisions the degree shall be awarded:

1	First Class
2A	Second Class div A
2B	Second Class div B
3	Third Class
NAH	Not awarded.

5.3.5 A candidate who fails to obtain Honours shall be awarded a degree of Bachelor of Architecture provided all requirements for the Bachelor degree are satisfactorily completed.

5.4 Combined programs

It is possible for students to enhance their architecture qualification by combining their studies with courses from the Bachelor of Landscape Architecture.

5.4.1 Direct entry

(i) Students selected on academic merit and within the double-degree program quota may enrol directly in a

program of study leading, after three years of full-time study (or the part time equivalent thereof) to the award of both the degree of Bachelor of Architecture and degree of Bachelor of Landscape Architecture in the School of Architecture, Landscape Architecture and Urban Design.

(ii) Students enrolled in the double-degree program are required to complete satisfactorily the following courses:

Option A:

Year 1

semester 1

ARCH 4000 Architecture Studio IC *or*

LARCH 4010 Landscape Architecture Studio IA 6

ARCH 4025 Architecture Studio IB 6

semester 2

ARCH 4026 Architecture/Landscape Architecture Studio IE 6

ARCH 4027 Architecture/Landscape Architecture Studio IF 6

Year 2

semester 1

ARCH 5018 Architecture Studio II 8

ARCH 5025 Architecture/Landscape Architecture Practice II 4

semester 2

ARCH 5011 Architecture Project II 12

Year 3

semester 1

LARCH 5004 Landscape Architecture Seminar II 2

LARCH 5029 Landscape Architecture Studio II 6

LARCH 5030 Architecture/Landscape Architecture IIE 4

semester 2

LARCH 5021 Landscape Architecture Project II 12

Option B

Year 1

semester 1

ARCH 4000 Architecture Studio IC *or*

LARCH 4010 Landscape Architecture Studio IA 6

LARCH 4012 Landscape Architecture Studio IB 6

semester 2

ARCH 4026 Architecture/Landscape Architecture Studio IE 6

ARCH 4027 Architecture/Landscape Architecture Studio IF 6

Year 2

semester 1

ARCH 5025 Architecture/Landscape Architecture Practice II 4

LARCH 5004 Landscape Architecture Seminar II 2

LARCH 5029 Landscape Architecture Studio II 6

semester 2

LARCH 5021 Landscape Architecture Project II 12

Year 3

semester 1

ARCH 5018 Architecture Studio II 8

ARCH 5027 Architecture/Landscape Architecture IIF 4

semester 2

ARCH 5011 Architecture Project II 12

(iii) A candidate may not enrol in Level II courses unless he or she has passed at least 18 units of Level I courses.

(iv) A candidate must complete all courses in Years 1 and 2 of their study plan before proceeding to courses in Year 3.

(v) A candidate who completes all courses in Years 1 and 2 in Option A will be eligible for the award of the Degree of Bachelor of Architecture.

(vi) A candidate who completes all courses in Years 1 and 2 in Option B will be eligible for the award of the Degree of Bachelor of Landscape Architecture.

(vii) A candidate who completes all courses in Years 1, 2 and 3 in either Option A or Option B will be eligible for the award of the Degree of Bachelor of Architecture and Bachelor of Landscape Architecture.

5.5 No candidate will be permitted to count towards an award any course, together with any other course, which, in the opinion of the Faculty concerned, contains a substantial amount of the same material; and no course or portion of a course may be counted twice towards an award.

5.6 Graduation

Subject to Chapter 89 of the Statutes, candidates who have satisfied the requirements for any award of the University shall be admitted to that award at a graduation ceremony for the purpose.

6 Special circumstances

When in the opinion of the relevant Faculty special circumstances exist, the Council, on the recommendation of the Faculty in each case, may vary any of the provisions of the Academic Program Rules for any particular award.

Bachelor of Architecture – Graduate Attributes

Students are encouraged to take responsibility for developing the following attributes:

Knowledge

- Acquired knowledge and skills sufficient for early stages of directed activity in an existing architectural practice.
- Developed intellectual and creative approaches and adaptability to form a basis for continued learning and development throughout professional life.

Intellectual and social capabilities

- Designing: The practice of architectural design, emphasising the pervasion of design from planning to detailing and the interrelationship of aesthetic, economic, environmental, legal, societal and individual reactions, and technical factors, and the nature of design as a group activity.
- Surveying: Land and building surveying.
- Communicating: The communication and documentation of designs as a part of the individual and group design process and for clients, construction, public presentation and statutory authorities; the preparation of professional reports.
- Managing: The management and operation of an architectural practice and the activities of an architectural practice.

Attitudes and values

- The profession of architecture: Ethics and the environmental, social and legal responsibilities of the profession of architecture.
- Architectural services: The recognition of situations where an architect can contribute, the formulation of appropriate strategies, and appropriate pre-design, design, project management and post construction services; processes in developing designs, including the development of a brief, and the outline, assessment, detailed design and costing of proposals in conformity with codes and other requirements; the organisation, management and documentation associated with building construction and the administration of building contracts; the marketing of architectural services.
- The technology of architecture: Building planning, construction, structure and services as they relate to new buildings and alterations to existing buildings.
- The architect in relation to other professions, organisations and the building industry: The relationship of architects to builders, structural and building services engineers, landscape architects, interior designers, urban designers, planners, and others involved in the creation of the built environment; the relationship of the profession of architecture to statutory authorities and to the building industry.

Bachelor of Landscape Architecture

Academic Program Rules

1 General

1.1 A candidate for admission to the program of study for the degree of Bachelor of Landscape Architecture must have obtained:

(a) the degree and/or Honours degree of Bachelor of Design Studies of the University of Adelaide subject to successful completion of courses comprising the Landscape Studies major *or*

(b) the Graduate Diploma in Design Studies (Landscape) of the University of Adelaide, or an equivalent award from another educational institution accepted by the University for the purpose *or*

(c) the degree and/or Honours degree of Bachelor of Architecture of the University of Adelaide or an equivalent award from another educational institution accepted by the University for the purpose.

1.2 Subject to the approval of the Faculty, the Head of School of Architecture, Landscape Architecture and Urban Design may in special cases and subject to such conditions (if any) as the Head of School may see fit to impose in each case, accept as a candidate for the Bachelor of Landscape Architecture an applicant who does not hold the qualifications specified in 1.1 above but who has given evidence satisfactory to the Head of School of fitness to undertake work for the Bachelor of Landscape Architecture.

1.3 A candidate accepted under 1.1 and 1.2 above may be required to satisfactorily complete such preliminary work or qualifying studies as the Head of School may determine.

2 Duration of program

2.1 The program of study for the degree shall extend over two years of full-time study or the equivalent. Students shall pass courses to the value of at least 24 units at each of the two levels. The unit values of the courses are contained in Academic Program Rule 5.2.

2.2 A candidate may interrupt the program for such periods and on such conditions as may in each case be determined by the School.

2.3 Students wishing to interrupt their studies in accordance with 2.2 above must apply through the School Executive Officer for permission and obtain beforehand the approval of the Head on behalf of the School for leave of absence for a defined period.

2.4 A student who leaves the program without approval or who extends a leave of absence beyond the time period approved under 2.2 above shall be deemed to have withdrawn his or her candidature for the degree but may reapply for admission to the program in accordance with the procedures in operation at the time.

2.5 Students who have interrupted their studies in the prescribed courses may be required to resume at such a point in the program and/or to undertake such additional or special program of study as the Head of the School deems appropriate.

3 Admission

3.1 Status, exemption and credit transfer

A candidate who has passed postgraduate level courses in the Faculty or in other faculties of the University or in other educational institutions, or Level IV courses in a Bachelor of Landscape Architecture program of another educational institution, may on written application to the Head be granted such exemption from these Academic Program Rules as the Faculty may determine, save that:

(a) no more than 12 units of the program may be undertaken through approved exchange programs *and*

(b) a candidate shall always be required to satisfy the examiners in all courses of the final year of the program.

4 Assessment and examinations

4.1 There shall normally be four classifications of pass in the final assessment of any course for the Bachelor degree, as follows: Pass with High Distinction, Pass with Distinction, Pass with Credit, Pass. If the Pass classification be in two divisions a pass in the higher division may be prescribed in the syllabuses as a prerequisite for admission to further studies in that course or to other courses. Results in certain courses as specified in the relevant Academic Program Rules will not be classified.

4.2 A candidate shall not be eligible to attend for examination unless the prescribed work has been completed to the satisfaction of the teaching staff concerned.

4.3 In determining a candidate's final result in a course (or part of a course) the examiners may take into account oral, written, practical and examination work, provided that the candidate has been given adequate notice at the commencement of the teaching of the course of the way

in which work will be taken into account and of its relative importance in the final result.

4.4 A candidate who fails a course or who obtains a lower division pass and who desires to take that course again shall, unless exempted wholly or partially therefrom by the Head of School concerned, again complete the required work in that course to the satisfaction of the teaching staff concerned.

4.5 Review of academic progress

If in the opinion of the Faculty a candidate for the Bachelor of Landscape Architecture is not making satisfactory progress, the Faculty may, with the consent of the Council, terminate the candidature and the candidate shall cease to be enrolled for the degree.

5 Qualification requirements

5.1 Qualifying studies

5.1.1 A candidate may be selected for admission to the Bachelor of Landscape Architecture program under 1.1 or 1.2 subject to satisfactory completion of such qualifying studies as determined by the Faculty after consideration of advice from the Head of School.

5.1.2 Candidates undertaking qualifying studies must successfully complete those studies before they may undertake courses of the Bachelor of Landscape Architecture.

5.1.3 On the recommendation of the Head of School, a supplementary examination may be offered to a candidate undertaking qualifying studies.

5.1.4 A candidate who fails all or part of the qualifying studies may repeat them in another year only with the permission of the School after it has considered advice from the Head of School.

5.2 Academic program

5.2.1 To qualify for the degree of Bachelor of Landscape Architecture a candidate shall pass the following courses to the value of at least 48 units:

Level I

LARCH 4002 Landscape Architecture Studio ID	6
LARCH 4010 Landscape Architecture Studio IA	6
LARCH 4012 Landscape Architecture Studio IB	6
LARCH 4017 Landscape Architecture Studio IC	6

Level II

LARCH 5004 Landscape Architecture Seminar II	2
LARCH 5017 Landscape Architecture Practice II	4
LARCH 5021 Landscape Architecture Project II	12
LARCH 5029 Landscape Architecture Studio II	6

5.2.2 A candidate may not enrol in Level II courses unless he or she has passed at least 18 units of Level I courses.

5.3 Honours

5.3.1 A candidate who wishes to proceed to the Honours degree of Bachelor of Landscape Architecture must obtain the approval of the Head of School, normally by December 15 of the year preceding enrolment.

5.3.2 A document setting out guidelines approved by the School which contains requirements for admission and the criteria for the award of the Honours degree is available from the School Executive Officer.

5.3.3 A candidate for the Honours degree of Bachelor of Landscape Architecture in addition to completing the full program prescribed for the degree shall also pass an additional course LARCH 5028 Advanced Studies in Landscape Architecture II.

5.3.4 A candidate who satisfies the requirements for Honours shall be awarded the Honours degree, but the Faculty shall decide within which of the following classes and divisions the degree shall be awarded:

1	First Class
2A	Second Class div A
2B	Second Class div B
3	Third Class
NAH	Not awarded.

5.3.5 A candidate who fails to obtain Honours shall be awarded a degree of Bachelor of Landscape Architecture provided all requirements for the Bachelor degree are satisfactorily completed.

5.4 Combined programs

It is possible for students to enhance their landscape architecture qualification by combining their studies with courses from the Bachelor of Architecture.

5.4.1 Direct entry

(i) Students selected on academic merit and within the double-degree program quota may enrol directly in a program of study leading, after three years of full-time study (or the part time equivalent thereof) to the award of both the degree of Bachelor of Architecture and degree of Bachelor of Landscape Architecture in the School of Architecture, Landscape Architecture and Urban Design.

(ii) Students enrolled in the double-degree program are required to complete satisfactorily the following courses:

Option A:

Year 1

semester 1

ARCH 4000 Architecture Studio IC *or*	
LARCH 4010 Landscape Architecture Studio IA	6
ARCH 4025 Architecture Studio IB	6

semester 2

ARCH 4026 Architecture/Landscape Architecture Studio IE	6
ARCH 4027 Architecture/Landscape Architecture Studio IF	6

Year 2

semester 1

ARCH 5018 Architecture Studio II	8
ARCH 5025 Architecture/Landscape Architecture Practice II	4

semester 2

ARCH 5011 Architecture Project II	12

Year 3

semester 1

LARCH 5004 Landscape Architecture Seminar II	2
LARCH 5029 Landscape Architecture Studio II	6
ARCH 5030 Architecture/Landscape Architecture IIE	4

semester 2

LARCH 5021 Landscape Architecture Project II	12

Option B

Year 1

semester 1

ARCH 4000 Architecture Studio IC *or*	
LARCH 4010 Landscape Architecture Studio IA	6
LARCH 4012 Landscape Architecture Studio IB	6

semester 2

ARCH 4026 Architecture/Landscape Architecture Studio IE	6
ARCH 4027 Architecture/Landscape Architecture Studio IF	6

Year 2

semester 1

LARCH 5004 Landscape Architecture Seminar II	2
ARCH 5025 Architecture/Landscape Architecture Practice II	4
LARCH 5029 Landscape Architecture Studio II	6

semester 2

LARCH 5021 Landscape Architecture Project II	12

Year 3

semester 1

ARCH 5018 Architecture Studio II	8
ARCH 5027 Architecture/Landscape Architecture IIF	4

semester 2

ARCH 5011 Architecture Project II	12

(iii) A candidate may not enrol in Level II courses unless he or she has passed at least 18 units of Level I courses.

(iv) A candidate must complete all courses in Years 1 and 2 of their study plan before proceeding to courses in Year 3.

(v) A candidate who completes all courses in Years 1 and 2 in Option A will be eligible for the award of the Degree of Bachelor of Architecture.

(vi) A candidate who completes all courses in Years 1 and 2 in Option B will be eligible for the award of the Degree of Bachelor of Landscape Architecture.

(vii) A candidate who completes all courses in Years 1, 2 and 3 in either Option A or Option B will be eligible for the award of the Degree of Bachelor of Architecture and Bachelor of Landscape Architecture.

5.5 No candidate will be permitted to count towards an award any course, together with any other course, which, in the opinion of the Faculty concerned, contains a substantial amount of the same material; and no course or portion of a course may be counted twice towards an award.

5.6 Graduation

Subject to Chapter 89 of the Statutes, candidates who have satisfied the requirements for any award of the University shall be admitted to that award at a graduation ceremony for the purpose.

6 Special circumstances

When in the opinion of the relevant Faculty special circumstances exist, the Council, on the recommendation of the Faculty in each case, may vary any of the provisions of the Academic Program Rules for any particular award.

Bachelor of Landscape Architecture – Graduate Attributes

Students are encouraged to take responsibility for developing the following attributes:

Knowledge

- Acquired knowledge and skills sufficient for early stages of directed activity in an existing architectural practice.
- Developed intellectual and creative approaches and adaptability to form a basis for continued learning and development throughout professional life.

Intellectual and social capabilities

- Designing: The practice of landscape architectural design, emphasising the pervasion of design from planning to detailing and the interrelationship of aesthetic, economic, environmental, legal, societal and individual reactions, and technical factors, and the nature of design as a group activity.
- Site Planning: The practice of comprehending and taking advantage of variables relevant to site planning including flora, fauna, soils, water systems, energy systems, building materials, human activities and desires, heritage conservation and the poetics of space, site and structure assembly and arrangement, etc.
- Communication: The communication and documentation of designs as a part of the individual and group processes and for clients, construction, public presentation and statutory authorities; the preparation of professional reports.
- Managing: The management and operation of a landscape architectural practice and the activities of a landscape architectural practice.

Attitudes and values

- The profession of landscape architecture: Ethics and the environmental, social and legal responsibilities of the profession of landscape architecture.
- Landscape architectural services: The recognition of situations where a landscape architect can contribute, the formulation of appropriate strategies, and appropriate pre-design, design, project management and post construction services; processes in developing designs, including the development of a brief, and the outline, assessment, detailed design and costing of proposals in conformity with codes and other requirements; the organisation, management and documentation associated with construction and the administration of contracts; the marketing of landscape architectural services.
- The technology of landscape architecture: site planning, construction, vegetation and habitat provision, water systems and hydrology, structures and services as they relate to new buildings, alterations, and site planning and design interventions.
- The landscape architect in relation to other professions, organisations and the building industry: the relationship of landscape architects to builders, structural and building services engineers, architects, interior designers, urban designers, planners, and others included in the creation of the built environment and human-dominated and shaped landscapes; the relationship of the profession of landscape architecture to statutory authorities and to the design industry.

Graduate Certificate in Design Studies
Graduate Certificate in Design Studies (Landscape)
Graduate Diploma in Design Studies
Graduate Diploma in Design Studies (Landscape)

Note: Postgraduate tuition fees apply to these programs.

Academic Program Rules

1 Duration of programs

1.1 Except with the permission of the School of Architecture, Landscape Architecture and Urban Design, the program for the Graduate Certificate in Design Studies or the Graduate Certificate in Design Studies (Landscape) shall be completed in not less than one semester and not more than one year of full-time study and in not less than one year and not more than two years of part-time study.

1.2 Except with the permission of the School of Architecture, Landscape Architecture and Urban Design, the program for the Graduate Diploma in Design Studies or the Graduate Diploma in Design Studies (Landscape) shall be completed in not less than two semesters and not more than three semesters of full-time study and in not less than one year and not more than two years of part-time study.

2 Admission

2.1 Applications for admission to the program shall be made through the South Australian Tertiary Admissions Centre (SATAC) on the appropriate form by the required date. Successful applicants to the program may not defer their studies to the following year.

An applicant for admission to the program of study for the Graduate Certificate in Design Studies or the Graduate Certificate in Design Studies (Landscape) must have obtained:

(a) the degree or Honours degree of Bachelor of Design Studies of the University of Adelaide *or*

(b) a degree or Honours degree of the University of Adelaide or an equivalent award from another educational institution accepted by the University for that purpose, subject to the approval of the Head of the School of Architecture, Landscape Architecture and Urban Design.

2.2 An applicant for admission to the program of study for the Graduate Diploma in Design Studies must have obtained:

(a) the Graduate Certificate in Design Studies of the University of Adelaide or an equivalent award from another educational institution accepted by the University for the purpose *or*

(b) the degree or Honours degree of Bachelor of Design Studies of the University of Adelaide *or*

(c) a Bachelor or Honours degree of the University of Adelaide or an equivalent award from another educational institution accepted by the University for that purpose, subject to the approval of the Head of the School of Architecture, Landscape Architecture and Urban Design.

2.3 An applicant for admission to the program of study for the Graduate Diploma in Design Studies (Landscape) must have obtained:

(a) the Graduate Certificate in Design Studies (Landscape) of the University of Adelaide or an equivalent award from another educational institution accepted by the University for the purpose *or*

(b) the degree or Honours degree of Bachelor of Design Studies of the University of Adelaide *or*

(c) a Bachelor or Honours degree of the University of Adelaide or an equivalent award from another educational institution accepted by the University for that purpose, subject to the approval of the Head of the School of Architecture, Landscape Architecture and Urban Design.

2.4 The Faculty may in special cases and subject to such conditions (if any) as the Head of the School of Architecture, Landscape Architecture and Urban Design may see fit to impose in each case, accept as a candidate for the Graduate Certificate in Design Studies or Graduate Certificate in Design Studies (Landscape), or Graduate

Diploma in Design Studies or Graduate Diploma in Design Studies (Landscape), an applicant who does not hold the qualifications specified in 2.1, 2.2 or 2.3 above but who has given evidence satisfactory to the Head of School of fitness to undertake work for the Graduate Certificate in Design Studies or Graduate Certificate in Design Studies (Landscape) or Graduate Diploma in Design Studies or Graduate Diploma in Design Studies (Landscape).

2.5 Status, exemption and credit transfer

2.5.1 A candidate who has passed postgraduate level courses in the School of Architecture, Landscape Architecture and Urban Design or in other faculties of the University or in other educational institutions may on written application to the School Executive Officer be granted such exemption from Academic Program Rule 5.1 as the Head of School may determine.

2.5.2 Candidates who have previously completed the requirements of the Graduate Certificate in Design Studies shall receive full status towards the Graduate Diploma in Design Studies for studies undertaken in the Graduate Certificate.

2.5.3 Candidates who have previously completed the requirements of the Graduate Certificate in Design Studies (Landscape) shall receive full status towards the Graduate Diploma in Design Studies (Landscape) for studies undertaken in the Graduate Certificate.

2.5.4 No candidate may be granted more than 12 units of status towards the Graduate Diploma in Design Studies or the Graduate Diploma in Design Studies (Landscape).

2.6 Articulation with other awards

2.6.1 A candidate who holds a Graduate Certificate in Design Studies of the University of Adelaide shall surrender it before being admitted to the Graduate Diploma in Design Studies.

2.6.2 A candidate who holds a Graduate Certificate in Design Studies (Landscape) of the University of Adelaide shall surrender it before being admitted to the Graduate Diploma in Design Studies (Landscape).

3 Assessment and examinations

3.1 There shall normally be four classifications of pass in the final assessment of any course for the Graduate Certificate and Graduate Diploma awards, as follows: Pass with High Distinction, Pass with Distinction, Pass with Credit, Pass. If the Pass classification is in two divisions a pass in the higher division may be prescribed in the syllabuses as a prerequisite for admission to further studies in that course or to other courses. Results in certain courses as specified in the Academic Program Rules will not be classified.

3.2 A candidate shall not be eligible to attend for examination unless the prescribed work has been completed to the satisfaction of the teaching staff concerned.

3.3 In determining a candidate's final result in a course (or part of a course) the examiners may take into account oral, written, practical and examination work, provided that the candidate has been given adequate notice at the commencement of the teaching of the course of the way in which work will be taken into account and of its relative importance in the final result.

3.4 A candidate who fails a course or who obtains a lower division pass and who desires to take that course again shall, unless exempted wholly or partially therefrom by the Head of School, again complete the required work in that course to the satisfaction of the teaching staff concerned.

3.5 Review of academic progress

If in the opinion of the Faculty a candidate for the Graduate Certificate or Graduate Diploma is not making satisfactory progress, the Faculty may, with the consent of the Council, terminate the candidature and the candidate shall cease to be enrolled for the Graduate Certificate or Graduate Diploma awards.

4 Qualification requirements

4.1 Academic program

4.1.1 To qualify for the Graduate Certificate in Design Studies a candidate shall pass a combination of the courses listed in Rule 4.1.3 to the value of at least 12 units.

4.1.2 To qualify for the Graduate Certificate in Design Studies (Landscape) a candidate shall pass a combination of the courses listed in Rule 4.1.4 to the value of at least 12 units.

4.1.3 To qualify for the Graduate Diploma in Design Studies a candidate shall pass the following courses to the value of at least 24 units:

DESST 6000 Special Topic (Design) IVA*	4
DESST 6002 Building Design Studio IV	4
DESST 6006 Special Topic (Design) IVB*	4
DESST 6009 Design and Environments IV	4
DESST 6013 Issues in Urban and Landscape Sustainability IV	4
DESST 6014 Design Communications IV	4
DESST 6015 Twentieth Century Architecture and Landscapes IV	4
DESST 6016 Technology in the Built Environment IV	4

4.1.4 To qualify for the Graduate Diploma in Design Studies (Landscape) a candidate shall pass the following courses to the value of at least 24 units:

DESST 6009 Design and Environments IV	4
DESST 6010 Special Topic (Landscape) IVB*	4
DESST 6011 Special Topic (Landscape) IVA*	4
DESST 6012 Landscape Design Studio IV	4
DESST 6013 Issues in Urban and Landscape Sustainability IV	4
DESST 6014 Design Communications IV	4
DESST 6015 Twentieth Century Architecture and Landscapes IV	4
DESST 6017 Natural Systems and Design IV	4

*Students should consult the Head of the School of Architecture, Landscape Architecture and Urban Design about availability of courses.

4.1.5 Course substitutions will normally be selected from a list available from the School Executive Officer; in unusual cases the Head of the School of Architecture, Landscape Architecture and Urban Design may approve different studies upon application by a candidate. In considering an application for a course substitution the Head of School shall have regard to the candidate's previous academic and practical experience.

4.2 Unacceptable combination of courses

No candidate will be permitted to count towards an award any course, together with any other course, which, in the opinion of the Faculty concerned, contains a substantial amount of the same material; and no course or portion of a course may be counted twice towards an award.

4.3 Graduation

Subject to Chapter 89 of the Statutes, candidates who have satisfied the requirements for any award of the University shall be admitted to that award at a graduation ceremony for the purpose.

5 Special circumstances

When in the opinion of the relevant Faculty special circumstances exist, the Council, on the recommendation of the Faculty in each case, may vary any of the provisions of the Academic Program Rules for any particular award.

School of Commerce

Contents

www.commerce.adelaide.edu.au

Bachelor of Business Information Technology
B.Bus.IT. 27

Bachelor of Commerce
B.Com.

Bachelor of Commerce (Accounting)
B.Com.(Accounting)

Bachelor of Commerce (Corporate Finance)
B.Com.(Corporate Finance)

Bachelor of Commerce (International Business)
B.Com.(International Business)

Bachelor of Commerce (Management)
B.Com.(Management).

Bachelor of Commerce (Marketing)
B.Com.(Marketing).....31

Bachelor of Finance
B.Fin.
See entry in the School of Economics 63

Undergraduate awards in the School of Commerce

- Degree of Bachelor of Business Information Technology
- Degree of Bachelor of Commerce
- Degree of Bachelor of Commerce (Accounting)
- Degree of Bachelor of Commerce (Corporate Finance)
- Degree of Bachelor of Commerce (International Business)
- Degree of Bachelor of Commerce (Management)
- Degree of Bachelor of Commerce (Marketing)
- Honours degree of Bachelor of Commerce

Notes on Delegated Authority

1 Council has delegated the power to approve minor changes to the Academic Program Rules to the Executive Deans of Faculties.

2 Council has delegated the power to specify syllabuses to the Head of each department or centre concerned, such syllabuses to be subject to approval by the Faculty or by the Executive Dean on behalf of the Faculty.

Bachelor of Information Technology

Academic Program Rules

1 General

There shall be a degree of Bachelor of Business Information Technology.

2 Duration of program

The program for the degrees shall extend over three years of full-time study or the part-time equivalent.

3 Assessment and examinations

3.1 A candidate for the degree shall attend lectures and pass examinations in accordance with the Academic Program Rules.

3.2 A candidate shall not be eligible to attend for examination unless the prescribed work has been completed to the satisfaction of the teaching staff concerned. A candidate who is not eligible to attend for examination shall be deemed to have failed the examination.

3.3 In determining a candidate's final result in a course (or part of a course) the examiners may take into account oral, written, practical and examination work, provided that the candidate has been given adequate notice at the commencement of the teaching of the course of the way in which work will be taken into account and of its relative importance in the final result.

3.4 There shall be four classifications of pass in each course for the degree, as follows: Pass with High Distinction, Pass with Distinction, Pass with Credit, Pass. If the Pass classification be in two divisions, a pass in the higher division may be prescribed in the syllabuses as a prerequisite for admission to further studies in that course or to other courses.

3.5 A candidate may present a limited number of courses for which a Conceded Pass has been obtained, as specified in 4.3 below.

3.6 A candidate who fails a course or who obtains a lower division pass and who desires to take that course again shall, unless exempted wholly or partially therefrom by the Head of the department concerned, again complete the required work in that course to the satisfaction of the teaching staff concerned.

3.7 A candidate who has twice failed the examination in any course for the degree may not enrol for that course again, or for any other course which in the opinion of the Faculty contains a substantial amount of the same material, except by permission of the Faculty and then only under such conditions as the Faculty may prescribe.

4 Qualification requirements

4.1 To qualify for the degree of Bachelor of Business Information Technology, candidates must pass courses with a combined total of not less than 72 units, including:

(a) not more than 24 units at Level I, including
ACCTING 1002 Accounting for Decision Makers I
COMP SCI 1008 Computer Science IA,
COMP SCI 1009 Computer Science IB,
ECOMMRCE 1000 Information Systems I
ECON 1000 Principles of Macroeconomics I
ECON 1004 Principles of Microeconomics I
either
MATHS 1008 Mathematics for Information Technology I
or both
MATHS 1001 Mathematics IA and
MATHS 1012 Mathematics IB,
and either
STATS 1000 Statistical Practice I
or
ECON 1008 Business Data Analysis I

(b) ECOMMRCE 2004 Internet Commerce II plus 8 units of Level II Commerce courses

(c) ECOMMRCE 3016 Electronic Commerce III plus 8 units of Level III Commerce courses

(d) COMP SCI 2000 Computer Systems,
COMP SCI 2002 Database and Information Systems
COMP SC 2004 Data Structures and Algorithms
COMP SCI 2006 Introduction to Software Engineering

(e) COMP SCI 3002 Programming Techniques,
COMP SCI 3006 Software Engineering and Project
plus 6 units of Level III Computer Science courses.

4.2 In determining a candidate's eligibility for the award of the degree, the Faculty may disallow any course passed more than 10 years previously.

4.3 A candidate may present for the degree conceded passes in Level II and Level III courses provided that the units value for any individual course for which a conceded pass is presented does not exceed 3 units, and the aggregate value does not exceed 6 units. Conceded passes are not awarded for Commerce courses.

4.4 Candidates who have completed courses for the degree under previous schedules may continue under the schedules then in force, with such modifications (if any) as shall be prescribed by the Head.

4.5 A candidate may not count for the degree any course together with any other course which, in the opinion of the Faculty, contains a substantial amount of the same material, and no course may be counted twice towards the degree. A table of unacceptable combinations of courses is available from the School of Commerce.

4.6 To qualify for the degree, a student who transferred into the program from another degree program or another university and has been granted status for studies completed prior to transfer must satisfy all conditions in 4.1 and must pass at least 24 units of Level II or III courses taught at the University of Adelaide. These must include 8 units of Level III Commerce courses and 8 units of Level III Computer Science courses. However, this requirement may be waived in special circumstances approved by the School.

4.7 A candidate for the degree who wishes to undertake courses elsewhere towards the degree must satisfy all conditions in 4.1 and present courses taught at the University of Adelaide having a minimum value of 48 units, and also arrange for the proposed scheme of study elsewhere to be approved in advance by the School of Commerce. However, these requirements may be waived in special circumstances approved by the School.

4.8 (a) Graduates of the University of Adelaide (except those specified in 4.8(b) below) or of other institutions, who wish to proceed to the Business Information Technology degree and to count towards that degree courses which they have already presented for another qualification, may be permitted to do so subject to the following conditions:

(i) they may present for the degree such courses to a maximum aggregate value of 24 units

(ii) they shall present at least 16 units of courses at Level III which have not been presented to any other degree *and*

(iii) they shall present a range of courses which fulfil the requirements for 4.1 above.

(b) Graduates of the University of Adelaide who wish to proceed to the Business Information Technology degree and to count towards that degree courses which they have already presented for the Bachelor of Commerce, Bachelor of Computer Science, Bachelor of Economics, Bachelor of Mathematical and Computer Sciences, Bachelor of Finance, Bachelor of Arts, Bachelor of Design Studies, or Bachelor of Wine Marketing degree may be permitted to do so subject to the following conditions:

(i) they may present for the degree such courses to a maximum aggregate value of 48 units

(ii) they shall present at least 24 units of Level III Commerce and/or Computer Science courses which have not been presented to any other degree

(iii) they shall present a range of courses which fulfil the requirements for 4.1 above

(iv) they hold only one of the degrees listed in 4.8(b).

4.9 Academic program

In addition to the compulsory courses specified in 4.1 above, a candidate may present Level II and III Commerce courses listed in the Academic Program Rules for the Bachelor of Commerce degree, and Level II and III Computer Science courses listed in the Academic Program Rules for the Bachelor of Computer Science degree.

4.10 Graduation

Subject to Chapter 89 of the Statutes, candidates who have satisfied the requirements for any award of the University shall be admitted to that award at a graduation ceremony for the purpose.

5 Special circumstances

When in the opinion of the relevant Faculty special circumstances exist, the Council, on the recommendation of the Faculty in each case, may vary any of the provisions of the Academic Program Rules for any particular award.

Notes (not forming part of the Academic Program Rules)

1 Students are advised that a knowledge of mathematics is helpful for several of the courses in this program.

2 Studies in Law within the degree of Bachelor of Business Information Technology

(1) Candidates who have successfully completed courses to the value of 24 units of the B.Bus.IT degree may apply for admission to Law Studies. Applications for admission to Law must be made through SATAC by the closing date of the year during which the 24 units are completed. Students will remain candidates for the degree of B.Bus.IT.

(2) See also the Academic Program Rules of the LL.B. degree and the Introductory Notes to the LL.B. Syllabuses

(3) Candidates who wish to present for the B Bus.IT degree Law courses passed prior to 1999 should apply in writing to the School of Commerce to have their position determined. Such candidates will not be disadvantaged by the transition.

3 Students from other programs will be considered for eligibility for the Bachelor of Business Information Technology degree in accordance with the Academic Program Rules of the Bachelor of Business Information Technology degree which are applicable in the year in which the student first enrols in one of its compulsory courses.

4 Candidates may enrol for the degree of Bachelor of Business Information Technology concurrently with one of the degrees Bachelor of Arts, Bachelor of Commerce, Bachelor of Computer Science, Bachelor of Design Studies, Bachelor of Economics, Bachelor of Finance, Bachelor of Mathematical and Computer Sciences or Bachelor of Wine Marketing. Candidates already enrolled in the degrees of B.A, B.Com, B.Comp.Sc, B.Des.St, B.Ec, B.Fin, B.Ma & Comp.Sc. or B.Wine.Mark wishing to proceed to the B.Bus.IT concurrently may apply for admission to the B.Bus.IT. Candidates already enrolled in the B.Bus.IT wishing to proceed to one of these other degrees concurrently may apply towards the end of their first year for admission to the second degree in the following year.

(1) The combined degrees may be completed in a minimum of four years of full-time study provided appropriate courses are selected. Candidates should seek program advice regarding course choice.

(2) Candidates must complete all of the requirements for the Bachelor of Business Information Technology, together with the following minimum requirements for the other degree:

(i) Candidates must complete the compulsory courses for that degree

(ii) Candidates must complete all of the Level III requirements in accordance with the Academic Program Rules for that degree. Courses presented to complete the Level III requirements for the other degree must include at least 24 units which have not been presented for the Bachelor of Business Information Technology degree.

(3) Candidates should note that an enrolment in courses exceeding a total value of 24 units per year will result in a program overload. Candidates should be aware of the full implications of their choice to take a program overload.

5 Students enrolled in the Bachelor of Commerce program or Bachelor of Computer Science program may choose instead to graduate with the Bachelor of Business Information Technology degree provided they satisfy all requirements.

Bachelor of Business Information Technology – Graduate Attributes

Students are encouraged to take responsibility for developing the following attributes:

Knowledge

- An understanding of the application of information technology to the development of business solutions.
- The knowledge for a career in the development, implementation and management of business information systems.
- A general understanding of accounting, economics, information systems, electronic commerce, computer science, computer systems, database management, software engineering, networks and data communications.

Intellectual and social capabilities

- Developed skills in business problem analysis and the design and development of information systems.
- Good literacy, numeracy, oral communication, interpersonal and decision-making skills.
- The ability to keep up-to-date in the discipline of information systems.
- Confidence in their skills levels.
- Teamwork and leadership capabilities.
- Good work habits.

Attitudes and values

- Awareness of the ethical standards expected of information systems professionals.
- Being informed about social, moral and cultural issues in Australia and the rest of the world.

Bachelor of Commerce
Bachelor of Commerce (Accounting)
Bachelor of Commerce (Corporate Finance)
Bachelor of Commerce (International Business)
Bachelor of Commerce (Management)
Bachelor of Commerce (Marketing)

Academic Program Rules

1 General

1.1 There shall be a degree and an Honours degree of Bachelor of Commerce. A candidate may obtain either degree or both.

1.2 On satisfying the admission requirements for entry to undergraduate studies in the School of Commerce, students will enrol in a program of study to allow them to qualify for one of the following degrees:

Degree of Bachelor of Commerce

Degree of Bachelor of Commerce (Accounting)

Degree of Bachelor of Commerce (Corporate Finance)

Degree of Bachelor of Commerce (International Business)

Degree of Bachelor of Commerce (Management)

Degree of Bachelor of Commerce (Marketing).

A student may not hold two concurrent places in the Bachelor of Commerce degree. After completion of their first Bachelor of Commerce degree in a particular specialisation, a student may apply for a further place in the Bachelor of Commerce degree in a different specialisation. Students entering the Bachelor of Commerce for a second time may be granted status up to a maximum of 48 units

1.3 The degree of Bachelor of Commerce was awarded for the first time in May 1993. Candidates graduating later than May 1993, who were originally enrolled for another degree may graduate with one of the above degrees provided that all requirements for that degree are satisfied.

2 Duration of program

The program for the Bachelor degrees shall extend over three years of full-time study or the part-time equivalent.

3 Assessment and examinations

3.1 A candidate for the Bachelor degree shall attend lectures and pass examinations in accordance with the Academic Program Rules.

3.2 A candidate shall not be eligible to attend for examination unless the prescribed work has been completed to the satisfaction of the teaching staff concerned. A candidate who is not eligible to attend for examination shall be deemed to have failed the examination.

3.3 In determining a candidate's final result in a course (or part of a course) the examiners may take into account oral, written, practical and examination work, provided that the candidate has been given adequate notice at the commencement of the teaching of the course of the way in which work will be taken into account and of its relative importance in the final result.

3.4 There shall be four classifications of pass in each course for the Bachelor degree, as follows: Pass with High Distinction, Pass with Distinction, Pass with Credit, Pass. If the Pass classification be in two divisions, a pass in the higher division may be prescribed in the syllabuses as a prerequisite for admission to further studies in that course or to other courses.

3.5 A candidate may present, for the Bachelor degree a limited number of courses for which a Conceded Pass has been obtained, as specified in 4.7.2 below.

3.6 A candidate who fails a course or who obtains a lower division pass and who desires to take that course again shall, unless exempted wholly or partially therefrom by the Head of the Department concerned, again complete the required work in that course to the satisfaction of the teaching staff concerned.

3.7 A candidate who has twice failed the examination in any course for the Bachelor degree may not enrol for that course again or for any other course which in the opinion of the School contains a substantial amount of the same material, except by permission of the School and then only under such conditions as the School may prescribe.

4 Qualification requirements

4.1 Bachelor of Commerce

To qualify for the degree of Bachelor of Commerce, candidates must pass courses with a combined total of not less than 72 units drawn from 4.8 below including:

(a) not more than 24 units at Level I, including ACCTING 1002 Accounting for Decision Makers I, ECON 1004 Principles of Microeconomics I, ECON 1000 Principles of Macroeconomics I, and ECON 1008 Business Data Analysis I or STATS 1000 Statistical Practice I

(b) at least 12 units of Level II Commerce courses

(c) 12 units of Level III Commerce courses and

(d) *either*

(i) a further 4 units of Level III Commerce courses

or

(ii) a further 12 units of Level III courses in 4.8 below.

4.2 Bachelor of Commerce (Accounting)

4.2.1 To qualify for the degree of Bachelor of Commerce (Accounting), candidates must satisfy all conditions in 4.1 above.

4.2.2 In addition, the courses presented must include the accounting courses in 4.8.1 below required to meet the educational requirements for entry into the accounting profession.

4.3 Bachelor of Commerce (Corporate Finance)

4.3.1 To qualify for the degree of Bachelor of Commerce (Corporate Finance), candidates must satisfy all conditions in 4.1 above.

4.3.2 In addition, the courses presented must include

CORPFIN 2006 Business Finance II

CORPFIN 3008 Corporate Finance Theory III

CORPFIN 3019 Corporate Investment and Strategy III

ECON 2012 Financial Economics II

and one other Level III Corporate Finance course from 4.8.1 below to the value of 4 units, or such courses as approved by the Head of the School of Commerce.

4.4 Bachelor of Commerce (International Business)

4.4.1 To qualify for the degree of Bachelor of Commerce (International Business), candidates must satisfy all conditions in 4.1 above.

4.4.2 In addition, the courses presented must include:

COMMGMT 2008 Management II

COMMGMT 3001 International Management III

MARKETNG 2009 Marketing II

MARKETNG 3015 International Marketing III

4.4.3 In addition, one of the following must be included:

either

(i) at least 4 units of Level II Humanities and Social Sciences courses and 12 units of study undertaken at an approved institution abroad *or*

(ii) at least 8 units of approved Level II Humanities and Social Sciences courses *or*

(iii) at least 14 units of foreign language studies *or*

(iv) completion of the Diploma of Languages .

4.5 Bachelor of Commerce (Management)

4.5.1 To qualify for the degree of Bachelor of Commerce (Management), candidates must satisfy all conditions in 4.1 above.

4.5.2 In addition, the courses presented must include COMMGMT 2008 Management II, COMMGMT 2007 Organisational Behaviour II, and Level III Management courses from 4.8.1 below to the value of 12 units, or such courses as approved by the Head of the School of Commerce.

4.6 Bachelor of Commerce (Marketing)

4.6.1 To qualify for the degree of Bachelor of Commerce (Marketing), candidates must satisfy all conditions in 4.1 above.

4.6.2 In addition, the courses presented must include MARKETNG 2009 Marketing II, MARKETNG 2011 Consumer Behaviour II, and Level III Marketing courses from 4.8.1 below to the value of 12 units, or such courses as approved by the Head of the School of Commerce.

4.7 All degrees

4.7.1 In determining a candidate's eligibility for the award of the degree, the School may disallow any course passed more than 10 years previously.

4.7.2 A candidate may present for the degree conceded passes in Level II and Level III courses provided that the units value for any individual course for which a conceded pass is presented does not exceed 3 units, and the aggregate

value does not exceed 6 units. Conceded passes are not awarded for those courses listed in 4.8.1 below.

4.7.3 Candidates who have completed courses for the degree under previous schedules may continue under the schedules then in force, with such modifications (if any) as shall be prescribed by the Head.

4.7.4 A candidate may not count for the degree any course together with any other course which, in the opinion of the School, contains a substantial amount of the same material and no course may be counted twice towards the degree. A table of unacceptable combinations of courses is available from the School of Commerce.

4.7.5 To qualify for an undergraduate degree in the School of Commerce a student who has transferred into Commerce from another degree program or from another university and has been granted status for courses completed prior to transfer must satisfy all conditions in 4.1 above and must pass at least 24 units of Level II or III courses taught at the University of Adelaide. These must include 12 units of Level III Commerce courses. However, this requirement may be waived in special circumstances approved by the School of Commerce.

4.7.6 A candidate for an undergraduate degree in the School of Commerce at the University of Adelaide, who wishes to undertake courses elsewhere towards that degree, must satisfy all conditions in 4.1 above and present courses taught at the University of Adelaide having a minimum value of 48 units, including at least 12 units of Level II or III Commerce courses, and also arrange for the proposed scheme of study elsewhere to be approved in advance by the School. However, this requirement may be waived in special circumstances approved by the School of Commerce.

4.7.7 (a) Graduates of the University of Adelaide (except those specified in 4.7.7(b) below) or of other institutions, who wish to proceed to an undergraduate degree in the School of Commerce and to count towards that degree courses which they have already presented for another qualification may be permitted to do so subject to the following conditions:

(i) they may present for the degree such courses to a maximum aggregate value of 24 units. No such course(s) may be presented in lieu of 12 units of Level II Commerce courses and 12 units of Level III Commerce courses

(ii) they shall present at least 16 units of courses at Level III, which have not been presented to any other degree *and*

(iii) they shall present a range of courses which fulfil the requirements for 4.1 above.

(b) Graduates of the University of Adelaide who wish to proceed to an undergraduate degree in the School of Commerce and to count towards that degree courses which they have already presented for the Bachelor of Arts, Bachelor of Business Information Technology, Bachelor of Computer Science, Bachelor of Design Studies, Bachelor of Economics, Bachelor of Engineering (Telecommunications), Bachelor of Environmental Studies, Bachelor of Finance, Bachelor of Mathematical and Computer Sciences, Bachelor of Media, Bachelor of International Studies, Bachelor of Social Sciences or Bachelor of Wine Marketing degree, may be permitted to do so subject to the following conditions:

(i) they may present for the degree such courses to a maximum aggregate value of 48 units

(ii) they shall present at least 24 units which have not been presented to any other degree, comprising *either*

16 units of Level III Commerce courses and an additional 8 units of Level II or III courses from 4.8 below, *or*

12 units of Level III Commerce courses and an additional 12 units of Level III courses from 4.8 below

(iii) they shall present the courses specified in 4.1(a) and 4.1(b) above

(iv) they hold only one of the degrees listed in 4.7.7(b).

4.8 Academic program

The following courses may be presented for an undergraduate degree in the School of Commerce:

4.8.1 Commerce courses

Level I

ACCTING 1002 Accounting for Decision Makers I@	3
ACCTING 1005 Accounting Method I@	3
COMMLAW 1004 Commercial Law I(S)@	3
ECOMMRCE 1000 Information Systems I@	3

Level II

ACCTING 2001 Management Accounting II@	4
ACCTING 2010 Financial Accounting II@	4
COMMGMT 2007 Organisational Behaviour II+	4
COMMGMT 2008 Management II+	4
COMMLAW 2000 Commercial Law II@	4
CORPFIN 2005 Investment Analysis and Valuation II#	4
CORPFIN 2006 Business Finance II@#	4
ECOMMRCE 2003 Information Systems II	4

ECOMMRCE 2004 Internet Commerce II	4
MARKETNG 2009 Marketing II*	4
MARKETNG 2011 Consumer Behaviour II*	4

Level III

ACCTING 3006 Accounting Theory III@	4
ACCTING 3011 Corporate Accounting III@	4
ACCTING 3012 Auditing III@	4
ACCTING 3018 Management Accounting for Business Advice III	4
COMMGMT 3001 International Management III+	4
COMMGMT 3007 Strategic Management III+	4
COMMGMT 3014 Human Resource Management III+	4
COMMLAW 3010 Income Tax Law III@	4
CORPFIN 3008 Corporate Finance Theory III#	4
CORPFIN 3009 Portfolio Theory and Management III#	4
CORPFIN 3013 Options, Futures and Risk Management III#	4
CORPFIN 3019 Corporate Investment and Strategy III#	4
ECOMMRCE 3016 Electronic Commerce III	4
MARKETNG 3000 Marketing Communications III*	4
MARKETNG 3015 International Marketing III*	4
MARKETNG 3017 Market Research and Project III*	4

@ Accounting course
# Corporate Finance course
+ Management course
* Marketing course

4.8.2 Economics courses

Courses listed in the Academic Program Rules of the degree of Bachelor of Economics. Some Economics courses are compulsory for the undergraduate degrees in the School of Commerce.

4.8.3 Humanities and Social Sciences courses

Courses listed in the Academic Program Rules of the degree of Bachelor of Arts, excluding PURE MTH 1002 Quantitative Methods Using Computers I. Note that the Program Rules include courses in Psychology (listed in the Academic Program Rules of the Degree of Bachelor of Health Sciences).

4.8.4 Law courses

Courses, to a maximum of 27 units, listed in the Academic Program Rules of the degree of Bachelor of Laws (see note 2 of the notes (not forming part of the Academic Program Rules) below)

4.8.5 Finance courses

Courses listed in the Academic Program Rules of the degree of Bachelor of Finance

4.8.6 Wine Marketing courses

Courses listed in the Academic Program Rules of the degree of Bachelor of Wine Marketing, excluding:

WINEMKTG 1013WT Food and Wine Marketing

WINEMKTG 2011WT Applied Marketing Research II

WINEMKTG 2014WT International Marketing of Wine and Agricultural Products II

WINEMKTG 2033WT Consumer Behaviour Analysis

WINEMKTG 2034WT Strategic Marketing Management II

WINEMKTG 3034WT Advertising and Promotion III

4.8.7 A candidate may not present both ECON 3034 Economic Theory III and 4367 Applied Economics III for the degree.

4.8.8 A candidate may not present COMMLAW 1004 Commercial Law I(S) for the degree if passed after LAW 1003 Law of Contract.

4.8.9 A candidate may not present COMMLAW 2000 Commercial Law II for the degree if passed after LAW 2004 Corporate Law.

4.8.10 The Honours degree

4.8.10.1 A candidate for the Honours degree shall attend lectures and pass examinations in accordance with the provisions of these Academic Program Rules.

4.8.10.2 A candidate who satisfies the requirements for Honours shall be awarded the Honours degree, but the Faculty shall decide within which of the following classes and divisions the degree shall be awarded:

1	First Class
2A	Second Class div A
2B	Second Class div B
3	Third Class
NAH	Not awarded.

4.8.10.3 A candidate may, subject to the approval of the Head of the School of Commerce, proceed to the Honours degree in the following course: COMMERCE 4000A/B Honours Commerce.

4.8.10.4 A candidate may, subject to the approval of the Heads of Schools or Departments concerned, proceed to the Honours degree taught jointly by the School of Commerce and another department. Candidates must apply in writing for the proposed program of study to be approved in advance by the School of Commerce.

4.8.10.5 (a) A candidate preparing for the Honours year taught by the School of Commerce must complete the

requirements for a Bachelor degree of the School of Commerce (or the equivalent elsewhere) before proceeding with the Honours year, and must obtain a high standard in courses presented for the Bachelor degree.

(b) A candidate who has satisfied the requirements for admission to Honours as set out in previous schedules is also eligible to apply for admission to the Honours year as above.

4.8.10.6 The work of the Honours year is normally completed in one year of full-time study. The School may permit a candidate to spread the work over two years, but not more, under such conditions as it may determine.

4.8.10.7 A candidate who is unable to complete the program for the Honours degree within the time allowed, or whose work is unsatisfactory at any stage of the program, or who withdraws from the program shall be reported to the School, which may permit re-enrolment for an Honours degree under such conditions (if any) as it may determine.

4.9 Graduation

Subject to Chapter 89 of the Statutes, candidates who have satisfied the requirements for any award of the University shall be admitted to that award at a graduation ceremony for the purpose.

5 Special circumstances

When in the opinion of the relevant Faculty special circumstances exist, the Council, on the recommendation of the Faculty in each case, may vary any of the provisions of the Academic Program Rules for any particular award.

Notes (not forming part of the Academic Program Rules)

1 Students are advised that a knowledge of Mathematics is helpful for Commerce courses and is assumed knowledge for some Corporate Finance courses.

2 Studies in Law within the degree of Bachelor of Commerce

(1) Candidates who have successfully completed courses to the value of 24 units of the B.Com. degree may apply for admission to Law Studies. Applications for admission to Law must be made through SATAC by the closing date of the year during which the 24 units are completed. Students will remain candidates for the degree of B.Com. and may present for the degree of B.Com. Law courses up to the value of 27 units.

(2) See also the Academic Program Rules of the LL.B. degree and the Introductory Notes to the LL.B. Syllabuses.

(3) Candidates who wish to present for the B.Com. degree Law courses passed prior to 1999 should apply in writing to have their position determined by the School of Commerce. Such candidates will not be disadvantaged by the transition.

3 Students from other Faculties will be considered for eligibility for the Bachelor of Commerce degree in accordance with the Regulations and Academic Program Rules of the Bachelor of Commerce degree which are applicable in the year in which the student first enrols in a course offered by the Economics or Commerce Schools.

4 Candidates may enrol for the degree of Bachelor of Commerce concurrently with one of the degrees Bachelor of Arts, Bachelor of Business Information Technology, Bachelor of Computer Science, Bachelor of Design Studies, Bachelor of Economics, Bachelor of Engineering (Telecommunications), Bachelor of Environmental Studies, Bachelor of Finance, Bachelor of Mathematical and Computer Sciences, Bachelor of Media, Bachelor of Social Science, Bachelor of International Studies or Bachelor of Wine Marketing. Candidates already enrolled in the degrees of B.A., B.B.I.T., B.Des.St., B.Ec., B.E (Tele.), B.Env.St., B.Fin., B.Ma & Comp.Sc., B.Media, B Soc Sc,. B Int St, or B.Comp.Sc. wishing to proceed to the B.Com. concurrently, may apply for admission to the B.Com. Candidates already enrolled in the B.Com. wishing to proceed to one of these other degrees concurrently, may apply towards the end of their first year for admission to the second degree in the following year.

(1) The combined degrees (apart from B.Com/BE (IT&T) may be completed in a minimum of four years of full time study provided appropriate courses are selected. Candidates should seek program advice regarding course choice.

(2) Candidates must complete all of the requirements for the Bachelor of Commerce, together with the following minimum requirements for the other degree:

(i) Candidates must complete the compulsory courses for that degree

(ii) Candidates must complete all of the Level III requirements in accordance with the Academic Program Rules for that degree. Courses presented to complete the Level III requirements for the other degree must include at least 24 units which have not been presented to the Bachelor of Commerce degree.

(3) Candidates should note that an enrolment in courses exceeding a total units value of 24 units per year will result in a program overload. Candidates should be aware of the full implications of their choice to take a program overload.

Bachelor of Commerce – Graduate Attributes

Students are encouraged to take responsibility for developing the following attributes:

Knowledge

- A thorough understanding of the content of their major discipline.
- Some understanding of other related disciplines.
- A general understanding of an ability to use modern information technology.

Intellectual and social capabilities

- Good literacy, numeracy and oral communication skills.
- The ability to keep up-to-date in their chosen discipline.
- Confidence in their skill levels.
- Leadership capabilities.
- Good interpersonal skills.
- Grood work habits.
- Good analytical and problem solving skills.

Attitudes and values

- Aware of the ethical standards expected in their chosen discipline.
- Being informed about social, moral and cultural issues in Australia and the rest of the world.

Dental School

Contents

www.dentistry.adelaide.edu.au

Bachelor of Dental Surgery
B.D.S. 39

Bachelor of Oral Health
B.Oral Hlth 44

Bachelor of Science in Dentistry (Honours)
B.Sc.Dent. 48

Undergraduate awards in the Dental School

- Diploma in Dental Therapy*
- Degree of Bachelor of Dental Surgery
- Degree of Bachelor of Oral Health
- Honours degree of Bachelor of Science in Dentistry

* no further intake of new students into this program.

Notes on Delegated Authority

1 Council has delegated the power to approve minor changes to the Academic Program Rules to the Executive Deans of Faculties.

2 Council has delegated the power to specify syllabuses to the Head of each department or centre concerned, such syllabuses to be subject to approval by the Faculty or by the Executive Dean on behalf of the Faculty. The Head of department or centre and the Principal of the School of Dental Therapy may approve minor changes to any previously approved syllabus.

Bachelor of Dental Surgery

Academic Program Rules

1 General

There shall be a degree of Bachelor of Dental Surgery.

2 Duration of program

The program of study for the degree of Bachelor of Dental Surgery, unless otherwise approved by the Council on the recommendation of the School, shall extend over five years of full-time study.

A candidate may interrupt his or her studies for the program:

(a) for the purpose of proceeding to the Honours degree of Bachelor of Science in Dentistry *or*

(b) for such period and on such conditions as may in each case be determined by the School

Students wishing to interrupt their studies must apply for permission and obtain beforehand the approval of the Dean on behalf of the School for leave of absence for a defined period.

A student who leaves the program without approval or who extends leave of absence beyond the time period approved by the Dean shall be deemed to have withdrawn his or her candidature for the degree but shall be permitted to reapply for admission to the program in accordance with the procedures in operation at the time.

Students who have interrupted their studies in the prescribed courses may be required to resume at such a point in the program and/or to undertake such additional or special program of study as the Dean of the School deems appropriate.

3 Enrolment

3.1 Approval of enrolment

The following students must have their programs approved by the Dean or nominee at the time of enrolment in the year concerned:

(a) students who have been granted or are seeking status or exemption from these Rules (see relevant section under Student Related Polices In Student Guide 2003)

(b) students who are repeating a stream or streams; such students may be required to resume at a point in the program and/or undertake such additional or special program of study as the Dean of School deems appropriate

(c) students who have obtained permission from the School to intermit their program, either to proceed to the Honours degree of Bachelor of Science in Dentistry, or for other reasons approved in each case.

3.2 Prescribed communicable infections policy

The University promotes a pro-active public health approach to prescribed communicable infections (PCI) such as HIV/AIDS, Hepatitis B and Hepatitis C, and seeks to minimise the impact of these infections on students' academic progress. It offers understanding and practical support to students with such infections, and aims to provide a work and study environment free from discrimination, challenging views that result in discriminatory attitudes toward people with PCIs.

The University also has a legal and ethical obligation to take all reasonable measures to prevent the transmission of prescribed communicable infections among students, staff members and visitors, and recognises that some students with such infections will not be permitted to complete the Bachelor of Medicine, Bachelor of Surgery, the Bachelor of Dental Surgery or other clinical programs offered by the Faculty of Health Sciences.

All prospective medical and dental school students are strongly advised to consult the University's *Students With Prescribed Communicable Infections Policy* - available through the University's website at www.adelaide.edu.au/student/current/policies.html - which makes reference to the relevant legislation, elaborates on the reasons for the adoption of this policy, and outlines procedures for implementing the policy.

4 Assessment and examinations

4.1 A candidate may not be eligible to attend for examination unless the prescribed work has been completed to the satisfaction of the academic staff concerned.

4.2 In determining a candidate's final result in a stream (or part of a stream) the examiners may take into account oral, written, clinical, practical and examination work, provided that the candidate has been given adequate notice at the commencement of the teaching of the stream of the way in which work will be taken into account and of its relative importance in the final result.

4.3 There shall be four classifications of pass in the final assessment of any stream for the Bachelor degree, as

follows: Pass with High Distinction, Pass with Distinction, Pass with Credit, Pass.

4.4 A candidate who fails a stream shall, unless exempted wholly or partially therefrom by the Head of the School concerned, again complete the required work in that stream to the satisfaction of the teaching staff concerned. Such a candidate may be required to attend concurrently such lectures, clinical practice, laboratory and other practical work as the School may prescribe, in other streams of annual examination.

4.5 A candidate who has twice failed the examination in any stream for the Bachelor degree may not enrol for that stream again or for any other stream which in the opinion of the School contains a substantial amount of the same material, except by special permission of the School and then only under such conditions as School may prescribe.

4.6 A candidate who is exempt from more than 50% in a stream shall not be granted a classified pass in that stream.

5 Qualification requirements

5.1 Lectures, practical work, clinical instruction

The program for the degree of Bachelor of Dental Surgery shall extend over five years. To qualify for the degree a candidate shall regularly attend lectures, tutorials and clinical practice, do written and laboratory or other practical work to the satisfaction of the academic staff concerned, and pass the prescribed examinations. Students shall attend at clinics of the South Australian Dental Service and other teaching hospitals and health centres as required for their clinical instruction.

5.2 Curriculum

First Year:

During the first year every student shall attend programs of instruction in: (a) Human Biology, (b) General Studies, (c) Dental and Health Science, (d) Dental Clinical Practice.

Second Year:

During the second year every student shall attend programs of instruction in: (a) Structure and Function of the Body, (b) General Studies, (c) Dental and Health Science, (d) Dental Clinical Practice.

Third Year:

During the third year every student shall attend programs of instruction in: (a) Diseases and Disorders of the Body, (b) Dental and Health Science, (c) Dental Clinical Practice.

Fourth Year:

During the fourth year every student shall attend programs of instruction in: (a) Selectives, (b) Dental and Health Science, (c) Dental Clinical Practice.

Fifth Year:

During the fifth year every student shall attend programs of instruction in: (a) Selectives, (b) Dental and Health Science, (c) Dental Clinical Practice.

5.3 Rules for the admission of dental students to the practice of the South Australian Dental Service and other teaching hospitals and health centres:

5.3.1 Each dental student of the University of Adelaide shall attend clinics of the South Australian Dental Service, or other teaching hospitals or health centres, as directed by the Dean of the Dental School; and each student shall be admitted to the practice of the South Australian Dental Service or other teaching hospitals or health centres under the disciplinary control of the Chief Executive Officer, in the case of the former, or the Medical Superintendent or Director, in the case of the latter, whilst in attendance.

5.3.2 No student may introduce visitors into any of the said clinics, hospitals or health centres without permission of the above designated officers.

5.3.3 Students shall conduct themselves with propriety and discharge the duties assigned, and pay for or replace any article damaged, lost or destroyed by them together; and make good any loss sustained by their negligence.

5.3.4 Each student shall at all times be under the direction and supervision of a duly appointed member of the teaching staff of the University of Adelaide, or a person who has been granted appropriate University status, and shall carry out such work as shall be allotted.

5.3.5 No student shall administer treatment to any patient without the approval of an appointed teacher.

5.3.6 Except in the performance of the associated clinical duties, no student may disclose any information whatsoever concerning a patient without the permission of both the patient and the Senior Dental or Medical Officer in charge.

5.3.7 No student shall publish a report on any case without the written permission of the Chief Executive Officer in the case of the South Australian Dental Service, or the Medical Superintendent or Director in the case of teaching hospitals or health centres, and the Senior Dental or Medical Officer under whose care the patient is or has been.

5.3.8 No student shall communicate directly to the press, radio or television any matter concerning the clinical practice of the institution to which that student is attached.

5.3.9 Students shall pay such fees as are laid down by the South Australian Dental Service in consultation with the Dean of the Dental School; no student shall be admitted to clinics until such fees are paid.

5.3.10 Misconduct or infringement of any of these rules, may lead to temporary suspension by the Chief Executive Officer, South Australian Dental Service, or the Medical

Superintendent or Director, other teaching hospitals or health centres. In the case of such temporary suspension, written notice shall immediately be given to the Dean of the Dental School.

5.4 Academic program

5.4.1 Curriculum

5.4.1.1 DENT 1000HO First Annual BDS Examination

At the First Annual Examination the candidate shall satisfy the examiners in each of the following streams:

DENT 1001AHO/BHO Dental and Health Science I Part 1 & 2

DENT 1002AHO/BHO Dental Clinical Practice I Part 1 & 2

DENT 1003AHO/BHO Human Biology ID Part 1 & 2

DENT 1004AHO/BHO General Studies ID Part 1 & 2

5.4.1.2 DENT 2000HO Second Annual BDS Examination

At the Second Annual Examination the candidate shall satisfy the examiners in each of the following streams:

DENT 2001AHO/BHO Dental and Health Science II Part 1 & 2

DENT 2002AHO/BHO Dental Clinical Practice II Part 1 & 2

DENT 2003AHO/BHO Structure and Function of the Body IID Part 1 & 2

DENT 2004AHO/BHO General Studies IID Part 1 & 2

5.4.1.3 DENT 3000HO Third Annual BDS Examination

At the Third Annual Examination the candidate shall satisfy the examiners in each of the following streams:

DENT 3001AHO/BHO Dental and Health Science III Part 1 & 2

DENT 3002AHO/BHO Dental Clinical Practice III Part 1 & 2

DENT 3003AHO/BHO Diseases and Disorders of the Body IIID Part 1 & 2

5.4.1.4 DENT 4000HO Fourth Annual BDS Examination

At the Fourth Annual Examination the candidate shall satisfy the examiners in each of the following streams:

DENT 4001AHO/BHO Dental and Health Science IV Part 1 & 2

DENT 4002AHO/BHO Dental Clinical Practice IV Part 1 & 2

DENT 4003AHO/BHO Dental Selectives IV Part 1 & 2

5.4.1.5 DENT 5000HO Fifth Annual (Final) BDS Examination

At the Fifth Annual Examination the candidate shall satisfy the examiners in each of the following streams:

DENT 5001AHO/BHO Dental and Health Science V Part 1 & 2

DENT 5002AHO/BHO Dental Clinical Practice V Part 1 & 2

DENT 5003AHO/BHO Dental Selectives V Part 1 & 2

5.5 General

A candidate shall complete each annual examination before entering upon the work of the following year's program of study provided that:

(a) A candidate shall enrol in all clinical streams of the year undertaken and shall enrol in any other streams that the School mandates. Except by permission of School the candidate may not enrol concurrently for any additional streams from the following year.

(b) A candidate may begin the first semester's work in the following year's program of study pending the result of any supplementary examination for which the candidate has been permitted to present.

(c) A candidate shall not be re-examined at a supplementary examination in any stream previously passed at the annual examination. A supplementary examination shall not be awarded on academic grounds in any stream where the student obtained an aggregate score of 35% or less.

(d) The annual examination at the end of the fifth year shall be known as the Final Examination. In exceptional circumstances a candidate's results in the Final Examination may be withheld if the candidate's performance in the required clinical work is considered unsatisfactory by the Board of Examiners. In such a case, the candidate will be required to complete satisfactorily such additional work as the Dean of the School may recommend to the Board of Examiners.

5.6 No candidate will be permitted to count towards an award any course, together with any other course, which, in the opinion of the School concerned, contains a substantial amount of the same material; and no course or portion of a course may be counted twice towards an award.

5.7 Graduation

Subject to Chapter 89 of the Statutes, candidates who have satisfied the requirements for any award of the University shall be admitted to that award at a graduation ceremony for the purpose.

6 Special circumstances

When in the opinion of the relevant Faculty special circumstances exist, the Council, on the recommendation of the Faculty in each case, may vary any of the provisions of the Academic Program Rules for any particular award.

Bachelor of Dental Surgery – Graduate Attributes

Philosophy of Dental Education

Good oral health is an integral part of good general health. The aim of this program is to enable graduates to register as dentists to practice in Australia. Graduates are encouraged to strive through their advocacy and clinical practice to empower patients and communities to maintain optimal oral health throughout their lives.

Graduate Outcomes/Responsibilities

The following outcomes should be developed through the learning experiences of the dental degree. The dental graduate should

- Adopt and employ professional attitudes and standards/values
- Effectively manage community-based health
- Effectively manage individual patient care
- Effectively manage a dental team
- Engage in self-directed life-long learning

Graduate Outcome Indicators

The dental graduate should

1 Adopt and employ professional attitudes and standards/values by

- Advocating for change
- Communicating effectively with a range of audiences, eg professional, policy-making bodies, community and patients
- Providing dental care in a contemporary ethical and legal environment
- Displaying integrity in all aspects of professional life
- Applying a wide understanding of social, political and cultural perspectives to inform practice

2 Effectively manage community-based health by

- Having a vision of oral health in the wider community
- Committing to improvement of oral health in the whole community including disadvantaged groups through diagnosis, treatment and education
- Being informed by a preventive approach to management
- Engaging in promotion of oral health as it is related to general health
- Committed to optimising their own health

3 Effectively manage individual patient care by

- Using an evidence-based approach to provide holistic management
- Acting as an advocate for patients
- Providing a broad range of dental interventions
- Having expertise in diagnosis, treatment planning and dental care in the long term
- Integrating and applying an understanding of basic, clinical, behavioural and social science concepts to inform practice

4 Effectively manage a dental team by

- Working effectively as a team-member of an integrated dental team and interprofessional teams
- Managing self, resources, and people within the constraints of the practice context
- Utilising information technology for communication, patient management and practice management

5 Engage in self-directed life-long learning by

- Using reflection and critical self-assessment to inform evidence-based practice
- Accessing the most current information and research, and critically evaluating it, individually and in collaboration
- Using up-to-date learning technologies
- Monitoring social and economic trends and considering their implications for practice
- Recognising the need for further education and undertaking appropriate courses as necessary.

Bachelor of Oral Health

Academic Program Rules

1 General

There shall be a Bachelor of Oral Health.

2 Duration of program

The program of study for the Bachelor of Oral Health shall extend over three years of full-time study.

Students wishing to interrupt their studies must apply for permission and obtain beforehand the approval of the Dean on behalf of the School for leave of absence for a defined period.

A student who leaves the program without approval or who extends leave of absence beyond the time period approved by the Dean shall be deemed to have withdrawn his or her candidature for the degree but shall be permitted to reapply for admission to the program in accordance with the procedures in operation at the time.

Students who have interrupted their studies in the prescribed courses may be required to resume at such a point in the program and/or undertake such additional or special program of study as the Dean of the School deems appropriate.

3 Admission

3.1 Applicants shall, unless exempted by the Dental School, have satisfied the University's admission requirements under the South Australian Certificate of Education or the equivalent.

3.2 Applicants shall, in addition to meeting the admission requirements in 3.1 above, satisfactorily participate in an oral health selection test (UMAT) and interview conducted by the Selection Committee appointed by the Dental School.

3.3 Status and exemption

3.3.1 No candidate may be granted more than 48 units of status toward the Degree for other studies undertaken in the University, or other post secondary institution.

3.3.2 A candidate who has previously passed courses or whose employment has included appropriate clinical experience may, on written application to the Dean or nominee, be exempted from part of the requirements of a course.

3.3.3 When 36 units of status or more is awarded for a previous qualification, the previous qualification shall be surrendered.

4 Enrolment

4.1 Approval of enrolment

The following students must have their program of study approved by the Dean or nominee at the time of enrolment in the year concerned:

(a) students who have been granted or are seeking status or exemption from these Rules (see relevant section under Student Related Polices In Student Guide 2003)

(b) students who are repeating a course or courses; such students may be required to resume at a point in the program and/or undertake such additional or special program of study as the Dean of Dental School deems appropriate

(c) students who have obtained permission from the Dental School to intermit their program for reasons approved in each case.

4.2 General

A candidate shall satisfactorily complete each annual examination before entering upon the work of the following year's program of study provided that:

(a) A candidate shall enrol in all clinical streams of the year undertaken and shall enrol in any other courses that the Dental School mandates. Except by permission of the Dental School the candidate may not enrol concurrently for any additional courses from the following year.

(b) A candidate may begin the first semester's work in the following year's program of study pending the result of any supplementary examination for which the candidate has been permitted to present.

(c) A supplementary examination shall not be awarded on academic grounds if the student has achieved an aggregate score of less than 35%. Students shall not be awarded more than two supplementary examinations on academic grounds per year.

4.3 Prescribed communicable infections policy

The University promotes a pro-active public health approach to prescribed communicable infections (PCI) such as HIV/AIDS, Hepatitis B and Hepatitis C, and seeks to minimise the impact of these infections on students' academic progress. It offers understanding and practical support to students with such infections, and aims to provide a work and study environment free from discrimination, challenging views that result in discriminatory attitudes toward people with PCIs.

The University also has a legal and ethical obligation to take all reasonable measures to prevent the transmission of prescribed communicable infections among students, staff members and visitors, and recognises that some students with such infections will not be permitted to complete the Bachelor of Medicine, Bachelor of Surgery, the Bachelor of Dental Surgery or other clinical programs offered by the Faculty of Health Sciences.

All prospective medical and dental school students are strongly advised to consult the University's *Students With Prescribed Communicable Infections Policy* - available through the University's website at www.adelaide.edu.au/student/current/policies.html - which makes reference to the relevant legislation, elaborates on the reasons for the adoption of this policy, and outlines procedures for implementing the policy.

5 Assessment and examinations

5.1 There shall be four classifications of pass in the final assessment of any course for the Bachelor Degree, as follows: Pass with High Distinction, Pass with Distinction, Pass with Credit, Pass. The Pass result in the Annual Oral Health Examinations shall be Non-Graded.

5.2 In determining a candidate's final result in a course (or part of a course) the examiners may take into account oral, written, clinical, practical and examination work.

5.3 A candidate may not be eligible to attend for examination unless the prescribed work has been completed to the satisfaction of the academic staff concerned.

5.4 A candidate who fails a course shall, unless exempted wholly or partially therefrom by the Dean of the Dental School, again complete the required work in that course to the satisfaction of the teaching staff concerned. Such a candidate may be required to attend concurrently such lectures, clinical practice, laboratory and other practical work as the Dental school may prescribe, in other course(s) of an annual examination.

5.5 A candidate who has twice failed the examination in any course for the Degree may not enrol for that course again except by special permission of the Dental School and then only under such conditions as Dental School may prescribe.

5.6 A candidate who is exempt from more than 50% in a stream shall not be granted a classified pass in that stream

6 Qualification requirements

6.1 The program for the degree of Bachelor of Oral Health shall extend over three years. To qualify for the degree a candidate shall regularly attend class meetings, tutorials and clinical practice, do written and laboratory or other practical work to the satisfaction of the academic staff concerned, and pass the prescribed examinations. Students shall attend at clinics, teaching hospitals and health centers as required for their clinical instruction.

6.2 Academic program

To qualify for the Degree a candidate shall meet the requirements in the course outlines which may include attendance in class meetings, tutorials and clinical practice, do written and laboratory or other practical work to the satisfaction of the Dean of the Dental School and pass the prescribed examinations.

The following are the courses of study for DENT 1200HO First Annual Oral Health Examination:

DENT 1201AHO/BHO Dental and Health Science I OH Part 1 & 2	6
DENT 1202AHO/BHO Clinical Practice I OH Part 1 & 2	9
DENT 1203AHO/BHO Human Biology I OH Part 1 & 2	6
DENT 1204AHO/BHO General Studies I OH Part 1 & 2	3

The following are the courses of study for DENT 2200HO Second Annual Oral Health Examination:

DENT 2201AHO/BHO Dental and Health Science II OH Part 1 & 2	6
DENT 2202AHO/BHO Clinical Practice II OH Part 1 & 2	12
DENT 2203AHO/BHO Human Biology II OH Part 1 & 2	3
DENT 2204AHO/BHO General Studies II OH Part 1 & 2	3

The following are the courses of study for DENT 3200HO Third Annual Oral Health Examination:

DENT 3201AHO/BHO Dental and Health Science IIIOH Part 1 & 2	3
DENT 3202AHO/BHO Clinical Practice IIIOH Part 1 & 2	12
DENT 3203AHO/BHO Human Biology IIIOH Part 1 & 2	3
DENT 3204AHO/BHO Oral Health Electives IIIOH Part 1 & 2	6

6.3 Rules for the admission of dental school students to the practice of the South Australian Dental Service and other teaching hospitals and health centres:

6.3.1 Each Dental School student of the University of Adelaide shall attend clinics of the South Australian Dental Service, or other teaching hospitals or health centres, as directed by the Dean of the Dental School; and each student shall be admitted to the practice of the South Australian Dental Service or other teaching hospitals or health centres under the disciplinary control of the Chief Executive Officer, in the case of the former, or the Medical Superintendent or Director, in the case of the latter, whilst in attendance.

6.3.2 No student may introduce visitors into any of the said clinics, hospitals or health centres without permission of the above designated officers.

6.3.3 Students shall conduct themselves with propriety and discharge the duties assigned, and pay for or replace any article damaged, lost or destroyed by them together; and make good any loss sustained by their negligence.

6.3.4 Each student shall at all times be under the direction and supervision of a duly appointed member of the teaching staff of the University of Adelaide, or a person who has been granted appropriate University status, and shall carry out such work as shall be allotted.

6.3.5 No student shall administer treatment to any patient without the approval of an appointed teacher.

6.3.6 Except in the performance of the associated clinical duties, no student may disclose any information whatsoever concerning a patient without the permission of both the patient and the Senior Dental or Medical Officer in charge.

6.3.7 No student shall publish a report on any case without the written permission of the Chief Executive Officer in the case of the South Australian Dental Service, or the Medical Superintendent or Director in the case of teaching hospitals or health centres, and the Senior Dental or Medical Officer under whose care the patient is or has been.

6.3.8 No student shall communicate directly to the press, radio or television any matter concerning the clinical practice of the institution to which that student is attached.

6.3.9 Students shall pay such fees as are laid down by the South Australian Dental Service in consultation with the Dean of the Dental School; no student shall be admitted to clinics until such fees are paid.

6.3.10 Misconduct or infringement of any of these rules, may lead to temporary suspension by the Chief Executive Officer, South Australian Dental Service, or the Medical Superintendent or Director, other teaching hospitals or health centres. In the case of such temporary suspension, written notice shall immediately be given to the Dean of the Dental School.

6.4 No candidate will be permitted to count towards an award any course, together with any other course, which, in the opinion of the Faculty concerned, contains a substantial amount of the same material; and no course or portion of a course may be counted twice towards an award.

6.5 Graduation

Subject to Chapter 89 of the Statutes, candidates who have satisfied the requirements for any award of the University shall be admitted to that award at a graduation ceremony for the purpose.

7 Special circumstances

When in the opinion of the relevant Faculty special circumstances exist, the Council, on the recommendation of the Faculty in each case, may vary any of the provisions of the Academic Program Rules for any particular award.

Bachelor of Oral Health – Graduate Attributes

On successful completion of the Bachelor of Oral Health, the graduates will have received education and training in the theory and practice of dental therapy and dental hygiene, to enable them to work in both private and government oral health services, in accordance with the legal and legislative limitations governing each Australian state.

l Each graduate will have developed the skills which will enable them to:

- Work as an integral part of the dental team providing holistic oral health care on an individual and community level
- Recognise dental diseases and formulate strategies that address the treatment and preventive needs of each individual
- Promote the importance of general and oral health to individuals in a dental and community health setting
- Work effectively with other allied health professionals to foster optimum oral health practices within the community
- Communicate effectively and provide education to people within a multicultural society that will encourage patterns of behaviour which favour effective oral health
- Maintain the highest level of ethics and professionalism in the practice of dental hygiene and dental therapy
- Utilise the principles of self evaluation that will contribute to the continuous development of skills within their field of practice
- Embrace the principles of lifelong learning that will enhance the practice of dental therapy and dental hygiene.

Bachelor of Science in Dentistry (Honours)

Academic Program Rules

1 General

There shall be a degree of Bachelor of Science in Dentistry (Honours).

2 Duration of program

To qualify for the degree a candidate shall undertake advanced study extending over one academic year as a full-time candidate, or with the approval of the Dental School, over a period of not more than two academic years as a half-time candidate and satisfy the examiners at the first attempt.

3 Admission

3.1 Before entering upon the program of study for the degree a candidate must:

(a) have completed the prerequisite work, or work accepted by the Dental School as appropriate for the proposed program of study *and*

(b) be deemed by the Dean of the School concerned to be a suitable candidate for advanced work.

3.2 Prescribed communicable infections policy

The University promotes a pro-active public health approach to prescribed communicable infections (PCI) such as HIV/AIDS, Hepatitis B and Hepatitis C, and seeks to minimise the impact of these infections on students' academic progress. It offers understanding and practical support to students with such infections, and aims to provide a work and study environment free from discrimination, challenging views that result in discriminatory attitudes toward people with PCIs.

The University also has a legal and ethical obligation to take all reasonable measures to prevent the transmission of prescribed communicable infections among students, staff members and visitors, and recognises that some students with such infections will not be permitted to complete the Bachelor of Medicine, Bachelor of Surgery, the Bachelor of Dental Surgery or other clinical programs offered by the Faculty of Health Sciences.

All prospective medical and dental school students are strongly advised to consult the University's *Students With Prescribed Communicable Infections Policy* - available through the University's website at www.adelaide.edu.au/student/current/policies.html - which makes reference to the relevant legislation, elaborates on the reasons for the adoption of this policy, and outlines procedures for implementing the policy.

4 Assessment and examinations

4.1 A candidate shall not be eligible to attend for examination unless the prescribed work has been completed to the satisfaction of the teaching staff concerned

4.2 The examination for the degree may consist of such written, oral and practical examinations as may be required. Assessments of any essays submitted by the candidate, practical work completed during the program, and the report on a research investigation may be taken into account.

5 Qualification requirements

5.1 Academic program

5.1.1 A program of study for the degree may be undertaken in one of the following disciplines:

ANAT SC 4000A/B Honours Anatomical Sciences

BIOCHEM 4000A/B Honours Biochemistry

DENT 4100AHO/BHO Honours Dentistry

GENETICS 4005A/B Honours Genetics

PATHOL 4000A/B Honours Pathology

PHARM 4000A/B Honours Pharmacology

PHYSIOL 4005A/B Honours Physiology

5.1.2 Assumed knowledge

All programs of study assume a pass in the Third Annual BDS Examination for the degree of Bachelor of Dental Surgery; or a Bachelor degree in another field of study that the Dental School deems equivalent.

Honours Genetics specifically assumes a pass in the course Genetics II as prescribed for the degree of Bachelor of Science.

5.1.3 A program of study will consist of such of the following as may be required:

(a) reading in selected fields and submissions of essays

(b) attendance at lectures

(c) practical work *and*

(d) the undertaking of a research investigation on a topic assigned early in the program.

5.2 Honours grading scheme

A candidate who satisfies the requirements for Honours shall be awarded the Honours degree, but the Faculty shall decide within which of the following classes and divisions the degree shall be awarded:

1	First Class
2A	Second Class div A
2B	Second Class div B
3	Third Class
NAH	Not awarded.

5.3 Graduation

Subject to Chapter 89 of the Statutes, candidates who have satisfied the requirements for any award of the University shall be admitted to that award at a graduation ceremony for the purpose.

6 Special circumstances

When in the opinion of the relevant Faculty special circumstances exist, the Council, on the recommendation of the Faculty in each case, may vary any of the provisions of the Academic Program Rules for any particular award.

School of Economics

Contents

www.economics.adelaide.edu.au

Bachelor of Economics
B.Ec. 53

Bachelor of Economics (International Agricultural Business)
B.Ec.(Int.Ag.Bus.).....59

Bachelor of Finance
B.Fin.

Bachelor of Finance (International)
B.Fin.(Int.)

Bachelor of Finance (Quantitative)
B.Fin.(Quant.).....63

Undergraduate awards in the School of Economics

- Degree of Bachelor of Economics
- Degree of Bachelor of Economics (International Agricultural Business)
- Degree of Bachelor of Finance
- Degree of Bachelor of Finance (International)
- Degree of Bachelor of Finance (Quantitative)
- Honours degree of Bachelor of Economics
- Honours degree of Bachelor of Finance

Notes on Delegated Authority

1 Council has delegated the power to approve minor changes to the Academic Program Rules to the Executive Deans of Faculties.

2 Council has delegated the power to specify syllabuses to the Head of each department or centre concerned, such syllabuses to be subject to approval by the Faculty or by the Executive Dean on behalf of the Faculty.

Bachelor of Economics

Academic Program Rules

1 General

There shall be a degree and an Honours degree of Bachelor of Economics. A candidate may obtain either degree or both.

2 Duration of program

The program of study for the degree of Bachelor of Economics shall extend over three years of full-time study or its part-time equivalent. A candidate for the Bachelor degree shall attend lectures and pass examinations in accordance with the provisions of these Academic Program Rules.

3 Assessment and examinations

3.1 (a) A candidate shall not be eligible to attend for examination unless the prescribed work has been completed to the satisfaction of the teaching staff concerned.

(b) For the purposes of these Academic Program Rules a candidate who has failed to comply with the provisions of 3.1(a) above shall be deemed to have failed the examination.

3.2 In determining a candidate's final result in a course (or part of a course) the examiners may take into account oral, written, practical and examination work, provided that the candidate has been given adequate notice at the commencement of the teaching of the course of the way in which work will be taken into account and of its relative importance in the final result.

3.3 There shall be four classifications of pass in the final assessment of any course for the Bachelor degree, as follows: Pass with High Distinction, Pass with Distinction, Pass with Credit, Pass. A pass of a certain standard may be prescribed in the syllabuses as a prerequisite for admission to further studies in other courses. A candidate may present, for the degree of Bachelor of Economics, a limited number of courses for which a Conceded Pass has been obtained, as specified in 4.6 below.

3.4 A candidate who fails a course or who obtains a lower division pass and who desires to take that course again shall, unless exempted wholly or partially therefrom by the Head of the School of Economics, again complete the required work in that course to the satisfaction of the teaching staff concerned.

3.5 A candidate who has twice failed the examination in any course for the Bachelor degree may not enrol for that course again or for any other course which in the opinion of the School contains a substantial amount of the same material, except by permission of the School and then only under such conditions as School may prescribe.

4 Qualification requirements

4.1 Academic program

To qualify for the degree of Bachelor of Economics, candidates must pass courses with a combined total of not less than 72 units drawn from 4.7 including:

(a) not more than 24 units from Level I, including:

ECON 1000 Principles of Macroeconomics I

ECON 1004 Principles of Microeconomics I

ECON 1008 Business Data Analysis I *or*

STATS 1000 Statistical Practice I

Note: candidates who have not completed SACE Stage 2 Mathematical Studies or equivalent, must complete ECON 1005 Mathematics for Economists I before proceeding to Level II Economics courses.

(b) the following Level II courses:

ECON 2009 Consumers, Firms & Markets II

ECON 2011 Macroeconomic Theory & Policy II

ECON 2006 Economic and Financial Data Analysis II *or*

STATS 2002 Introduction to Mathematical Statistics II

and

STATS 2003 Statistical Practice II

(c) either

(i) at least 16 units of Level III Economics courses from those listed in 4.7.1(a) with the remaining units from courses at Level II (or higher) included in 4.7 *or*

(ii) 12 units of Level III Economics courses, with at least another 12 units of Level III courses from those listed in 4.7(see note (d)).

(d) Included in the 72 units there must be:

(i) at least one of the following Economic History courses:

ECON 2007 Australian Economic History II

ECON 3030 International Economic History III

(ii) see also note 5.4 (a) below, covering prerequisites for the Bachelor of Economics (Honours) degree.

4.2 To qualify for the degree of Bachelor of Economics a student who transferred into the Bachelor of Economics from another university and has been granted status for studies completed prior to transfer must satisfy all conditions in 4.1 and must pass at least 24 units of Level II or III courses taught at the University of Adelaide. These must include 12 units of Level III Economics courses. However, this requirement may be waived in special circumstances approved by the School.

4.3 A candidate for the degree of Bachelor of Economics at the University of Adelaide, who wishes to undertake courses elsewhere towards their degree, must satisfy all conditions in 4.1 above and present courses taught at the University of Adelaide having a minimum value of 48 units, including at least 12 units of Level III Economics courses, and also arrange for the proposed scheme of study elsewhere to be approved in advance by the School. However, this requirement may be waived in special circumstances approved by the School.

4.4 (a) Graduates of the University of Adelaide (except those specified in 4.4 (b) below) or of other institutions who wish to proceed to the degree of Bachelor of Economics and to count towards that degree courses which they have already presented for another qualification may be permitted to do so subject to the following conditions:

(i) they may present for the degree such courses to a maximum aggregate value of 24 units;

(ii) they shall present at least 16 units for courses at Level III, which have not been presented to any other degree, including at least 12 units for Economics courses, and

(iii) they shall present a range of courses which fulfil the requirements of 4.1 above

(b) Graduates of the University of Adelaide who wish to proceed to the degree of Bachelor of Economics and to count towards that degree courses which they have already presented for the Bachelor of Arts, Bachelor of Commerce, Bachelor of Computer Science, Bachelor of Engineering (Chemical), Bachelor of Engineering (Civil & Environmental), Bachelor of Engineering (Civil & Structural), Bachelor of Engineering (Computer Systems), Bachelor of Engineering (Electrical & Electronic), Bachelor of Engineering (Mechanical), Bachelor of Engineering (Mechatronic), Bachelor of Engineering (Telecommunications), Bachelor of Finance, Bachelor of Finance (International), Bachelor of Finance (Quantitative), Bachelor of International Studies, Bachelor of Mathematical and Computer Sciences, Bachelor of Media and Bachelor of Social Sciences degree may be permitted to do so subject to the following conditions:

(i) they may present for the degree such courses to a maximum aggregate value of 48 units

(ii) they shall present at least 24 units which have not been presented for any other degree comprising either at least 16 units of Level III Economics courses from those listed in 4.7(a) with the remaining units from courses at Level II or Level III included in 4.7 *or*

12 units of Level III Economics courses, with at least another 12 units of Level III courses from those listed in 4.7 *and*

(iii) they shall present the courses specified in 4.1(a), 4.1(b) and 4.1(d) above

(iv) they hold only one of the degrees listed in 4.4(b).

4.5 In determining a candidate's eligibility for the award of the degree, the School may disallow any course passed more than 10 years previously.

4.6 A candidate may present for the degree of Bachelor of Economics conceded passes in Level II and Level III courses provided that the unit value for any individual course for which a conceded pass is presented does not exceed 3 units, and the aggregate value does not exceed 6 units. Conceded passes are not awarded in those courses listed in 4.7.1(a) of the Degree of Bachelor of Economics.

Notes (not forming part of the Academic Program Rules)

1 Not all Level II and Level III courses will be offered every year. Courses will be offered according to numbers of students enrolled and staff availability. Students can increase their flexibility by taking ECON 2009 Consumers, Firms & Markets II in their second semester concurrently with ECON 1000 Principles of Macroeconomics I and ECON 2011 Macroeconomic Theory & Policy II in their third semester so that some Level III courses will be available in their third semester and almost all by their fourth semester.

2 Students are advised that a knowledge of mathematics is helpful for economics courses and is essential for some courses. Students who are particularly interested in Mathematics, and are intending to apply for Honours, are encouraged to take some courses in the School of Mathematical and Computer Sciences. (For example: MATHS 1011/1012 Mathematics IA/B or MATHS 1013/1014 Mathematics IMA/B, STATS 1000 Statistical Practice I instead of ECON 1008 Business Data Analysis I; and both of the 2-unit courses STATS 2003 Statistical Practice II and STATS 2002 Introduction to Mathematical Statistics II instead of ECON 2006 Economic & Financial Data Analysis II).

3 Studies in Law within the Degree of Bachelor of Economics.

(1) It is possible for students in Economics to elect to complete both the Bachelor of Economics and Bachelor of Laws academic program in a total of 5.5 years of full-time study, provided they are accepted into the Bachelor of Laws academic program. Students wishing to pursue this academic plan may apply for admission through the South

Australian Tertiary Admission Centre by September of the year before they commence university study or in a later year of the program.

(2) Students will enrol concurrently for the degree of B.Ec. and LL.B and may present for the degree of B.Ec. the Law courses listed in the Academic Program Rules for the degree of Bachelor of Laws. Students must complete all the requirements for the B.Ec. before they can obtain their LL.B degree.

(3) See also the Academic Program Rules of the LL.B degree and Introductory Notes to the LL.B Syllabuses.

4 Candidates undertaking study for the degree of Bachelor of Economics and one of the degrees of Bachelor of Commerce, Bachelor of Finance, Bachelor of Mathematical and Computer Sciences or Bachelor of Computer Science concurrently:

Candidates may enrol for the degree of Bachelor of Economics concurrently with one of the degrees of Bachelor of Arts, Bachelor of Commerce, Bachelor of Computer Science, Bachelor of Engineering (Chemical), Bachelor of Engineering (Civil and Environmental), Bachelor of Engineering (Civil & Structural), Bachelor of Engineering (Computer Systems), Bachelor of Engineering (Electrical & Electronic), Bachelor of Engineering (Mechanical), Bachelor of Engineering (Telecommunications), Bachelor of Finance, Bachelor of Finance (International), Bachelor of Finance (Quantitative), Bachelor of International Studies, Bachelor of Mathematical and Computer Sciences, Bachelor of Media, or Bachelor of Social Sciences, if they apply for admission and are admitted to both programs. Candidates already enrolled in the Bachelor of Economics wishing to proceed to one of these additional degrees concurrently, may apply towards the end of their first year for admission to the B.A., B.Com., B.E.(Chem.), B.E.(Civil), B.E.(Civil & Env.), B.E.(Comp.Sys.), B.E.(Elect.), B.E.(I T & T), B.E.(Mech.), B.E.(Mechatronic), B.Fin., B.Ma. & Comp. Sc. or B.Comp.Sc. in the following year.

(1) The combined degrees may be completed in a minimum of four years of full-time study provided appropriate courses are selected. Candidates should seek program advice regarding course choice.

(2) Candidates must complete all of the requirements for the Bachelor of Economics, together with the following minimum requirements for the other degree:

i they must complete the compulsory courses for that degree

ii they shall present 24 units for courses at Level III which have not been presented to the Bachelor of Economics degree.

(3) Candidates should note that an enrolment in courses exceeding a total unit value of 24 units per year will result in a program overload and is subject to approval. Candidates should be aware of the full implications of their choice to take a program overload.

4.7 Academic program

4.7.1 The following may be presented for the Bachelor degree:

(Note that the teaching period of each course is one semester)

(a) Economics courses

Level I

ECON 1000 Principles of Macroeconomics I	3
ECON 1002 Australia & the Global Economy *	3
ECON 1004 Principles of Microeconomics I	3
ECON 1005 Mathematics for Economists I	3
ECON 1008 Business Data Analysis I	3
ECON 1009 International Financial Institutions and Markets I	3

Level II

ECON 2000 International Trade and Investment Policy II	4
ECON 2001 Resource and Environmental Economics II	4
ECON 2004 Employment Relations II	4
ECON 2005 Mathematical Economics II	4
ECON 2006 Economic and Financial Data Analysis II	4
ECON 2007 Australian Economic History II	4
ECON 2009 Consumers, Firms & Markets II	4
ECON 2011 Macroeconomic Theory & Policy II	4
ECON 2012 Financial Economics II	4

Level III

ECON 3003 Resource & Environmental Economics	4
ECON 3006 Development Economics III	4
ECON 3013 Applied Econometrics III	4
ECON 3016 Strategic Thinking for Decision Making III	4
ECON 3017 Labour Economics III	4
ECON 3021 International Trade III	4
ECON 3023 Econometrics III *	4
ECON 3024 Public Economics III	4
ECON 3030 International Economic History III	4
ECON 3032 International Finance III	4
ECON 3034 Economic Theory III	4
ECON 3035 Money, Banking and Financial Markets III	4

* not available in 2005

(b) Commerce courses

Courses listed in the Academic Program Rules of the degree of Bachelor of Commerce.

(c) Humanities and Social Sciences courses

Courses listed in the Academic Program Rules of the degree of Bachelor of Arts, (which include courses offered by other Faculties) not listed in (a) or (b) above and

excluding PURE MTH 1002 Quantitative Methods Using Computers IH.

(d) Law courses

For students who have obtained a place in the Bachelor of Laws, courses to a maximum of 27 units, listed in the Academic Program Rules of the degree of Bachelor of Laws (see note 4 of the Notes (not forming part of the Academic Program Rules).

(e) Finance courses

Courses listed in the Academic Program Rules of the degree of Bachelor of Finance.

4.7.2 A candidate may not present COMMLAW 1004 Commercial Law I(S) for the degree if passed after 3731 Contract or LAW 1003 Law of Contract.

4.7.3 A candidate may not present COMMLAW 2000 Commercial Law II for the degree if passed after LAW 4035 Associations.

4.7.4 Candidates who have completed courses for the degree under previous schedules may continue under the schedules then in force, with such modifications (if any) as shall be prescribed by the Head.

4.7.5 A candidate may not count for the degree any course together with any other course which, in the opinion of the School, contains a substantial amount of the same material, and no course may be counted twice towards the degree. A table of unacceptable combinations of courses is available from the School of Economics Office.

4.7.6 Except with the permission of the School, a candidate may not enrol in non-Economics courses at Level II to the value of more than 12 units unless he or she has already passed or is concurrently enrolled in the compulsory Level II courses ECON 2006 Economic and Financial Data Analysis II, ECON 2009 Consumers, Firms & Markets II and ECON 2011 Macroeconomic Theory & Policy II (or equivalents). These non-Economics courses to the value of not more than 12 units shall not include courses in which the candidate has previously failed or from which the candidate has withdrawn.

4.7.7 Except with the permission of the School, a candidate may not enrol in non-Economics courses at Level III to the value or more than 8 units unless he or she has already passed or is concurrently enrolled in the compulsory Level II courses ECON 2006 Economic and Financial Data Analysis II, ECON 2009 Consumers, Firms & Markets II and ECON 2011 Macroeconomic Theory & Policy II (or equivalents) and has already passed or is concurrently enrolled in Level III Economics courses to the value of 12 units. These non-Economics courses to the value of not more than 8 units shall not include courses in which the candidate has previously failed or from which the candidate has withdrawn.

4.8 The Honours degree

4.8.1 A candidate for the Honours degree shall attend lectures and pass examinations in accordance with the provisions of these Academic Program Rules.

4.8.2 A candidate may, subject to the approval of the Head of the School of Economics, proceed to the Honours degree in the course ECON 4003A/B Honours Economics.

4.8.3 A candidate may, subject to the approval of the Head of the Schools concerned, proceed to the Honours degree taught jointly by the School of Economics and another Department. Candidates must apply in writing for the proposed program of study to be approved in advance by the School.

4.8.4 (a) A candidate preparing for the Honours year taught by the School of Economics must complete the requirements for the Bachelor degree of B.Ec. or its equivalent including ECON 3034 Economic Theory III or its equivalents (such as the previously offered courses ECON 3010 Microeconomics III and ECON 3011 Macroeconomics III) before proceeding to the Honours degree, and must obtain a high standard in courses presented for the Bachelor degree. Students who have not passed ECON 2005 Mathematical Economics II (or MATHS 1011/1012 Mathematics IA/B or MATHS 1013/1014 Mathematics IMA/B), and either ECON 3023 Econometrics III or ECON 3013 Applied Econometrics III may be required to undertake preliminary work in those areas before proceeding to the Honours Year.

(b) A candidate who has satisfied the requirements for admission to Honours as set out in previous schedules is also eligible to apply for admission to the Honours year as above.

4.8.5 The work of the Honours year is normally completed in one year of full-time study, after completion of the Bachelor degree or its equivalent. The School may permit a candidate to spread the work over two years, but not more, under such conditions as it may determine.

4.8.6 A candidate who is unable to complete the program for the Honours degree within the time allowed, or whose work is unsatisfactory at any stage of the program, or who withdraws from the program shall be reported to the School, which may permit re-enrolment for an Honours degree under such conditions (if any) as it may determine.

4.8.7 A candidate who satisfies the requirements for Honours shall be awarded the Honours degree, but the Faculty shall decide within which of the following classes and divisions the degree shall be awarded:

1	First Class
2A	Second Class div A
2B	Second Class div B
3	Third Class
NAH	Not awarded.

4.8.8 A graduate who has obtained the Honours Degree of Bachelor of Arts in Economics may not obtain the Honours degree of Bachelor of Economics.

4.9 Graduation

Subject to Chapter 89 of the Statutes, candidates who have satisfied the requirements for this award of the University shall be admitted to the award at a graduation ceremony for the purpose.

5 Special circumstances

When in the opinion of the relevant Faculty special circumstances exist, the Council, on the recommendation of the Faculty in each case, may vary any of the provisions of the Academic Program Rules for any particular award.

Bachelor of Economics – Graduate Attributes

Knowledge

- Knowledge and understanding of the content of economics and finance at levels that are internationally recognised. This includes core analytical knowledge, appropriate quantitative skills, and an understanding of the relevant institutional context.

Intellectual and social capabilities

- Cognitive skills such as the ability to analyse, evaluate and synthesise economic and financial information, both quantitative and qualitative, from a wide variety of sources.
- Critical thinking and problem-solving skills, especially as these apply to the analysis of economic and financial problems.
- Numeracy skills, especially in economic statistics and econometrics. Literacy and verbal communication skills of a high order in the presentation of arguments or evidence of an economic or financial nature.
- Skills in interpersonal understanding, with the capacity to communicate effectively and to work both independently and cooperatively with other professional economics or finance specialists.
- Capacity for future employment based on a professional education that appropriately balances the reflective, intuitive, and decision-making requirements of work in the economics and finance areas.
- To stimulate and maintain intellectual curiosity and a commitment to continuous learning.
- The ability to take a leadership role in the economics or finance profession as well as in the wider community, and a commitment to high standards of professional ethics.
- Proficiency in the use of computer-based technologies.

Attitudes and values

- A desire to be an informed, responsible and critically discriminating participant in academic, social, cultural and ethical issues, in the community of economists or finance specialists, in the workforce more generally, and both in Australia and abroad.
- A commitment to the highest community standards of ethical behaviour.
- An abiding sense of curiosity and enquiry both within and beyond the discipline.

Bachelor of Economics (International Agricultural Business)

Academic Program Rules

1 General

There shall be a degree and an Honours degree of Bachelor of Economics (International Agricultural Business). A candidate may obtain either degree or both.

2 Duration of program

The program of study for the degree of Bachelor of Economics (International Agricultural Business) shall extend over three years of full-time study or its part-time equivalent. A candidate for the Bachelor degree shall attend lectures and pass examinations in accordance with the provisions of these Academic Program Rules.

3 Assessment and examinations

3.1 (a) A candidate shall not be eligible to attend for examination unless the prescribed work has been completed to the satisfaction of the teaching staff concerned.

(b) For the purposes of these Academic Program Rules a candidate who has failed to comply with the provisions of 3.1(a) above shall be deemed to have failed the examination.

3.2 In determining a candidate's final result in a course (or part of a course) the examiners may take into account oral, written, practical and examination work, provided that the candidate has been given adequate notice at the commencement of the teaching of the course of the way in which work will be taken into account and of its relative importance in the final result.

3.3 There shall be four classifications of pass in the final assessment of any course for the Bachelor degree, as follows: Pass with High Distinction, Pass with Distinction, Pass with Credit, Pass. There shall also be a classification of Conceded Pass. A Conceded Pass may not be used to satisfy prerequisite requirements. Courses passed at the Conceded Pass level to a maximum total of eight units may be presented for the Bachelor Degree. A pass of a certain standard may be prescribed in the syllabuses as a prerequisite for admission to further studies in other courses. A candidate may present, for the degree of Bachelor of Economics (International Agricultural Business), a limited number of courses for which a Conceded Pass has been obtained, as specified in 4.5 below.

3.4 A candidate who fails a course or who obtains a lower division pass and who wishes to repeat that course shall, unless exempted wholly or partially therefrom by the Head of the School of Economics, again complete the required work in that course to the satisfaction of the teaching staff concerned.

3.5 A candidate who has twice failed the examination in any course for the Bachelor degree may not enrol for that course again or for any other course which in the opinion of the School contains a substantial amount of the same material, except by permission of the School and then only under such conditions as School may prescribe.

4 Qualification requirements

4.1 Academic program

To qualify for the degree of Bachelor of Economics (International Agricultural Business), candidates must pass courses with a combined total of not less than 70 units drawn from 4.6 including

(a) not more than 24 units from Level I, including:

ACCTING 1002 Accounting for Decision Makers I	3
COMMLAW 1004 Commercial Law I (S)	3
ECON 1000 Principles of Macroeconomics I	3
ECON 1004 Principles of Microeconomics I	3
ECON 1008 Business Data Analysis I	3
WINEMKTG 1013WT Principles of Food and Wine Marketing I	3

Note: candidates who have not completed SACE Stage 2 Mathematical Studies or equivalent, must complete ECON 1005 Mathematics for Economists I before proceeding to Level II Economics courses.

(b) the following Level II courses:

AGRIBUS 2004WT Issues in Australian Agribusiness II

ECON 2006 Economic and Financial Data Analysis II

ECON 2009 Consumers, Firms & Markets II

(c) the following Level III course:

AGRIBUS 3041WT International Business Environment III

and either

(i) an additional 8 units of Level III Economics courses from those listed in 4.6.1(a) with at least another 12 units of Level III courses from those listed in 4.6 *or*

(ii) an additional 12 units of Level III Economics from those listed in 4.6.1(a) with the remaining courses at Level II or higher included in 4.6.

4.2 To qualify for the degree of Bachelor of Economics (International Agricultural Business) a student who transferred into the Bachelor of Economics (International Agricultural Business) from another university and has been granted status for studies completed prior to transfer must satisfy all conditions in 4.1 above and must pass at least 24 units of Level II or III courses taught at the University of Adelaide. These must include 8 units of Level III Economics courses and AGRIBUS 3041WT International Business Environment III. However, this requirement may be waived in special circumstances approved by the School.

4.3 A candidate for the degree of Bachelor of Economics (International Agricultural Business) at the University of Adelaide, who wishes to undertake courses elsewhere towards their degree, must satisfy all conditions in 4.1 above and present courses taught at the University of Adelaide having a minimum value of 48 units, including at least 12 units of Level III Economics courses, and also arrange for the proposed scheme of study elsewhere to be approved in advance by the School. However, this requirement may be waived in special circumstances approved by the School.

4.4 In determining a candidate's eligibility for the award of the degree, the School of Economics may disallow any course passed more than 10 years previously.

4.5 A candidate may present for the degree of Bachelor of Economics (International Agricultural Business) conceded passes in Level II and Level III courses provided that the units value for any individual course for which a conceded pass is presented does not exceed 3 units, and the aggregate value does not exceed 8 units. Conceded passes are not awarded in those courses listed in 4.6.1(a) of the Degree of Bachelor of Economics (International Agricultural Business).

Notes (not forming part of the Academic Program Rules)

1 Not all Level II and Level III courses will be offered every year. Courses will be offered according to numbers of students enrolled and staff availability. Students can increase their flexibility by taking ECON 2009 Consumers, Firms & Markets II in their second semester concurrently with ECON 1000 Principles of Macroeconomics I so that some Level III courses will be available in their third semester and almost all by their fourth semester.

2 Candidates should note that an enrolment in courses exceeding a total units value of 24 units per year will result in a program overload. Candidates should be aware of the full implications of their choice to take a program overload

4.6 Program of study

4.6.1 The following may be presented for the Bachelor degree:

(a) Economics courses

Level I

ECON 1000 Principles of Macroeconomics I	3
ECON 1002 Australia & the Global Economy *	3
ECON 1004 Principles of Microeconomics I	3
ECON 1005 Mathematics for Economists I	3
ECON 1008 Business Data Analysis I	3
ECON 1009 International Financial Institutions and Markets I	3

Level II

ECON 2000 International Trade and Investment Policy II	4
ECON 2001 Resource & Environmental Economics II	4
ECON 2004 Employment Relations II	4
ECON 2005 Mathematical Economics II	4
ECON 2006 Economic and Financial Data Analysis II	4
ECON 2007 Australian Economic History II	4
ECON 2009 Consumers, Firms & Markets II	4
ECON 2011 Macroeconomic Theory & Policy II	4
ECON 2012 Financial Economics II	4

Level III

ECON 3003 Resource and Environmental Economics III	4
ECON 3006 Development Economics III	4
ECON 3013 Applied Econometrics III	4
ECON 3016 Strategic Thinking for Decision Making III	4
ECON 3017 Labour Economics III	4
ECON 3021 International Trade III	4
ECON 3023 Econometrics III *	4
ECON 3024 Public Economics III	4
ECON 3030 International Economic History III	4
ECON 3032 International Finance III	4
ECON 3034 Economic Theory III	4

* Not available in 2005

(b) Sciences courses

Level I

FOODT&M 1001 Consumers, Food and Health	3
PLANT SC 1000 Environment and Society	3
WINEMKTG 1013WT Principles of Food and Wine Marketing I	3

Level II

AGRIBUS 2004WT Issues in Australian Agribusiness II	4
WINEMKTG 2010WT Strategic Marketing Management II	4
WINEMKTG 2011WT Applied Marketing Research II	4
WINEMKTG 2014WT International Marketing of Wine and Agricultural Products II	4
WINEMKTG 2037WT Applied Management Science II	4

Level III

AGRIBUS 3041WT International Agri-business Environment III	4
WINEMKTG 3014WT Food Marketing III	4
WINEMKTG 3034WT Advertising and Promotion III	4
WINEMKTG 3040WT Retail Management III	4
WINEMKTG 3047WT Internet Marketing & E-Commerce	4
WINEMKTG 3065WT Database Marketing for Wine & Food Business	4

(c) Humanities and Social Sciences courses

Courses listed in the Academic Program Rules of the degree of Bachelor of Arts, (which include courses offered by other Faculties) not listed in (a) or (b) above and excluding PURE MTH 1002 Quantitative Methods Using Computers I

(d) Commerce courses

Courses listed in the Academic Program Rules of the degree of Bachelor of Commerce

(e) Finance courses

Courses listed in the Academic Program Rules of the degree of Bachelor of Finance

4.6.2 Candidates who have completed courses for the degree under previous schedules may continue under the schedules then in force, with such modifications (if any) as shall be prescribed by the Head of School.

4.6.3 Unacceptable combinations of courses

A candidate may not count for the degree any course together with any other course which, in the opinion of the School, contains a substantial amount of the same material, and no course may be counted twice towards the degree. A table of unacceptable combinations of courses is available from the School of Economics Office.

4.7 Graduation

Subject to Chapter 89 of the Statutes, candidates who have satisfied the requirements for any award of the University shall be admitted to that award at a graduation ceremony for the purpose.

5 Special circumstances

When in the opinion of the relevant Faculty special circumstances exist, the Council, on the recommendation of the Faculty in each case, may vary any of the provisions of the Academic Program Rules for any particular award.

Bachelor of Economics (International Agricultural Business) – Graduate Attributes

Knowledge

- Knowledge and understanding of the content of economics and finance at levels that are internationally recognised. This includes core analytical knowledge, appropriate quantitative skills, and an understanding of the relevant institutional context.

Intellectual and social capabilities

- Cognitive skills such as the ability to analyse, evaluate and synthesise economic and financial information, both quantitative and qualitative, from a wide variety of sources.
- Critical thinking and problem-solving skills, especially as these apply to the analysis of economic and financial problems.
- Numeracy skills, especially in economic statistics and econometrics. Literacy and verbal communication skills of a high order in the presentation of arguments or evidence of an economic or financial nature.
- Skills in interpersonal understanding, with the capacity to communicate effectively and to work both independently and cooperatively with other professional economics or finance specialists.
- Capacity for future employment based on a professional education that appropriately balances the reflective, intuitive, and decision-making requirements of work in the economics and finance areas.
- To stimulate and maintain intellectual curiosity and a commitment to continuous learning.
- The ability to take a leadership role in the economics or finance profession as well as in the wider community, and a commitment to high standards of professional ethics.
- Proficiency in the use of computer-based technologies.

Attitudes and values

- A desire to be an informed, responsible and critically discriminating participant in academic, social, cultural and ethical issues, in the community of economists or finance specialists, in the workforce more generally, and both in Australia and abroad.
- A commitment to the highest community standards of ethical behaviour.
- An abiding sense of curiosity and enquiry both within and beyond the discipline.

Bachelor of Finance
Bachelor of Finance (International)
Bachelor of Finance (Quantitative)

Academic Program Rules

Note: SACE Stage 2 Mathematical Studies (or equiv.) is a prerequisite for the Bachelor of Finance (Quantitative) degree.

1 General

1.1 There shall be a degree and an Honours degree of Bachelor of Finance. A candidate may obtain either degree or both.

1.2 On satisfying the admission requirements for entry into the Bachelor of Finance degree, students will enroll in a program of study to allow them to qualify for one of the following:

Degree of Bachelor of Finance

Degree of Bachelor of Finance (International)

Degree of Bachelor of Finance (Quantitative).

2 Duration of program

The program of study for the degree of Bachelor of Finance shall extend over three years of full-time study or its part-time equivalent. A candidate for the Bachelor degree shall attend lectures and pass examinations in accordance with the Academic Program Rules.

3 Assessment and examinations

3.1 A candidate shall not be eligible to attend for examination unless the prescribed work has been completed to the satisfaction of the teaching staff concerned. A candidate who is not eligible to attend for examination shall be deemed to have failed the examination.

3.2 In determining a candidate's final result in a course (or part of a course) the examiners may take into account oral, written, practical and examination work, provided that the candidate has been given adequate notice at the commencement of the teaching of the course of the way in which work will be taken into account and of its relative importance in the final result.

3.3 There shall be four classifications of pass in each course for the Bachelor degree, as follows: Pass with High Distinction, Pass with Distinction, Pass with Credit, Pass. If the Pass classification be in two divisions, a pass in the higher division may be prescribed in the syllabuses as a prerequisite for admission to further studies in that course or to other courses. There shall also be a classification of Conceded Pass.

3.4 A candidate may present, for the Bachelor degree, a limited number of courses for which a Conceded Pass has been obtained, as specified in 4.8.

3.5 A candidate who fails a course or who obtains a lower division pass and who desires to take that course again shall, unless exempted wholly or partially therefrom by the Head of the School or Head of the Department concerned, again complete the required work in that course to the satisfaction of the teaching staff concerned.

3.6 A candidate who has twice failed the examination in any course for the Bachelor degree may not enrol for that course again or for any other course which in the opinion of the Board of Studies contains a substantial amount of the same material, except by permission of the Board of Studies and then only under such conditions as the Board of Studies may prescribe.

4 Qualification requirements

4.1 Bachelor of Finance

To qualify for the degree of Bachelor of Finance, candidates must pass courses with a combined total of not less than 72 units drawn from 4.9 including:

(a) not more than 24 units at Level I, including:

ACCTING 1002 Accounting for Decision Makers I

ECON 1000 Principles of Macroeconomics I

ECON 1004 Principles of Microeconomics I

ECON 1008 Business and Data Analysis I *or*

STATS 1000 Statistical Practice I

ECON 1009 International Financial Institutions and Markets I

MATHS 1009 Introduction to Financial Mathematics I

and

MATHS 1010 Applications of Quantitative Methods in Finance I

or

MATHS 1011/1012 Mathematics IA/B

or

MATHS 1013/1014 Mathematics IMA/B

(b) at least 24 units at Level II, including:

CORPFIN 2006 Business Finance II

ECON 2012 Financial Economics II

and either

ECON 2006 Economic and Financial Data Analysis II

or both

STATS 2002 Introduction to Mathematical Statistics II

and

STATS 2003 Statistical Practice II

(c) at least 12 units of Level III Finance courses from 4.9.1(a) below including

CORPFIN 3009 Portfolio Theory and Management III

and either

APP MTH 3011 Financial Modelling Techniques III

or

CORPFIN 3013 Options, Futures & Risk Management III

plus either

(i) an additional 12 units at Level III from 4.9.1 below

or

(ii) an additional 4 units of Level III Finance courses from 4.9.1(a) below and an additional 8 units at Level II or III from 4.9.1 below.

4.2 Bachelor of Finance (International)

4.2.1 To qualify for the degree of Bachelor of Finance (International), candidates must satisfy all conditions in 4.1 above.

4.2.2 In addition, the courses presented must include:

ECON 2009 Consumers, Firms & Markets II

ECON 3032 International Finance III

ECON 3035 Money, Banking and Financial Markets III

4.3 Bachelor of Finance (Quantitative)

4.3.1 To qualify for the degree of Bachelor of Finance (Quantitative), candidates must satisfy all conditions in 4.1 above, including 16 units of Level III Finance courses from 4.9.1(a) below.

4.3.2 In addition, the courses presented must include:

STATS 1000 Statistical Practice I

STATS 2002 Introduction to Mathematical Statistics II

STATS 2003 Statistical Practice II

APP MTH 3011 Financial Modelling Techniques III

PURE MTH 3014 Mathematics of Finance III

PURE MTH 2004 Mathematics IIM *or*

APP MTH 2005 Financial Computing II

4.4 To qualify for a Bachelor of Finance degree a student who transferred into the Bachelor of Finance from another university and has been granted status for studies completed prior to transfer must satisfy all conditions in 4.1, 4.2 or 4.3 above and must pass at least 24 units of Level II or III courses taught at the University of Adelaide. These must include 12 units of Level III Finance courses. However, this requirement may be waived in special circumstances approved by the Board of Studies.

4.5 A candidate for a Bachelor of Finance degree at the University of Adelaide who wishes to undertake courses elsewhere towards their degree, must satisfy all conditions in 4.1, 4.2 or 4.3 above and present courses taught at the University of Adelaide having a minimum value of 48 units, including at least 12 units of Level III Finance courses, and also arrange for the proposed scheme of study elsewhere to be approved in advance by the Board of Studies. However, this requirement may be waived in special circumstances approved by the Board of Studies.

4.6 (a) Graduates of the University of Adelaide (except those specified in 4.4(b)) or of other institutions, who wish to proceed to the degree of Bachelor of Finance and to count towards that degree courses which they have already presented for another qualification may be permitted to do so subject to the following conditions:

(i) they may present for the degree such courses to a maximum aggregate value of 24 units. No such course/s may be presented in lieu of 8 units Level II Finance courses and 12 units Level III Finance courses

(ii) they shall present at least 16 units for courses at Level III, which have not been presented to any other degree *and*

(iii) they shall present a range of courses which fulfil the requirements of 4.1, 4.2 or 4.3.

(b) Graduates of the University of Adelaide who wish to proceed to a Bachelor of Finance degree and to count towards that degree courses which they have already presented for the Bachelor of Commerce, Bachelor of Computer Science, Bachelor of Economics, Bachelor of Engineering (Chemical), Bachelor of Engineering (Civil), Bachelor of Engineering (Civil & Environmental), Bachelor of Engineering (Computer Systems), Bachelor of Engineering (Electrical & Electronic), Bachelor of Engineering (IT&T), Bachelor Engineering (Mechanical) or Bachelor of Mathematical and Computer Sciences, degree may be permitted to do so subject to the following conditions:

(i) they may present for the degree such courses to a maximum aggregate value of 48 units

(ii) they shall present at least 24 units which have not been presented to any other degree comprising at least 12 units of Level III Finance courses from 4.9.1(a) below, plus

either

an additional 12 units at Level III from 4.9.1 below

or

an additional 4 units of Level III Finance courses from 4.9.1(a) below and an additional 8 units at Level II or III from 4.9.1 below *and*

(iii) they shall present the courses specified in 4.1, 4.2 or 4.3 above

(iv) they hold only one of the degrees listed in 4.6 (b) above.

4.7 In determining a candidate's eligibility for the award of the degree, the Schools of Economics, Commerce and Mathematical and Computer Sciences may disallow any course passed more than 10 years previously.

4.8 A candidate may present for a Bachelor of Finance degree conceded passes in Level II and Level III courses provided that the units value for any individual course for which a conceded pass is presented does not exceed 3 units, and the aggregate value does not exceed 6 units. Conceded passes are not awarded for those courses in 4.9.1(a) and 4.9.1(b) below.

Notes (not forming part of the Academic Program Rules)

1 Students are advised that a knowledge of mathematics is helpful for finance, commerce and economics courses and is essential for some courses.

2 Studies in Law within a Bachelor of Finance degree

(1) It is possible for students in Finance to elect to complete both the Bachelor of Finance and Bachelor of Laws academic program in a total of 5.5 years of full-time study, provided they are accepted into the Bachelor of Laws academic program. Students wishing to pursue this academic plan may apply for admission through the South Australian Tertiary Admission Centre by September of the year before they commence university study or in a later year of the program.

(2) Students will enrol concurrently for the degree of B.Fin. and LL.B and may present for the degree of B.Fin. the Law courses listed in the Academic Program Rules for the degree of Bachelor of Laws. Students must complete all the requirements for the B.Fin. before they can obtain their LL.B degree.

(3) See also the Academic Program Rules of the LL.B degree and Introductory Notes to the LL.B Syllabuses.

4.9 Academic program

4.9.1 The following courses may be presented for the Bachelor degree:

(a) Finance courses

Level I

ACCTING 1002 Accounting for Decision Makers I	3
ECON 1000 Principles of Macroeconomics I	3
ECON 1004 Principles of Microeconomics I	3
ECON 1008 Business Data Analysis	3
ECON 1009 International Financial Institutions and Markets I	3
MATHS 1009 Introduction to Financial Mathematics I	3
MATHS 1010 Applications of Quantitative Methods in Finance I	3
MATHS 1011 Mathematics IA	3
MATHS 1012 Mathematics IB	3
MATHS 1013 Mathematics IMA	3
MATHS 1014 Mathematics IMB	3
STATS 1000 Statistical Practice I	3

Level II

APP MTH 2005 Financial Computing II	4
CORPFIN 2005 Investment Analysis and Valuation II	4
CORPFIN 2006 Business Finance II	4
ECON 2000 International Trade and Investment Policy II	4
ECON 2006 Economic and Financial Data Analysis II	4
ECON 2009 Consumers, Firms & Markets II	4
ECON 2011 Macroeconomic Theory & Policy II	4
ECON 2012 Financial Economics II	4
STATS 2002 Introduction to Mathematical Statistics II	2
STATS 2003 Statistical Practice II	2

Level III

APP MTH 3003 Life Contingencies III	2
APP MTH 3011 Financial Modelling Techniques III	4
CORPFIN 3008 Corporate Finance Theory III	4
CORPFIN 3009 Portfolio Theory and Management III	4
CORPFIN 3013 Options, Futures and Risk Management III	4
CORPFIN 3019 Corporate Investment and Strategy III	4
ECON 3021 International Trade III	4
ECON 3023 Econometrics III*	4
ECON 3024 Public Economics III	4
ECON 3032 International Finance III	4
ECON 3034 Economic Theory III	4

ECON 3035 Money, Banking and Financial Markets III	4
MATHS 3014 Mathematics of Finance III	2
STATS 3005 Time Series III	2

* Not available in 2005

(b) Other Economics and Commerce courses

All other courses listed in the Academic Program Rules for the degrees of Bachelor of Economics and Bachelor of Commerce.

(c) Other Mathematical & Computer Sciences courses

All other courses listed in the Academic Program Rules for the degrees of Bachelor of Mathematical and Computer Sciences and Bachelor of Computer Science.

(d) Humanities and Social Sciences courses

Courses listed in the Academic Program Rules of the degree of Bachelor of Arts (which include courses offered by other Faculties), excluding PURE MTH 1002 Quantitative Methods Using Computers IH and COMP SCI 1004 Computer Literacy I.

(e) Law courses

For students who have obtained a place in the Bachelor of Laws, courses, to a maximum of 27 units, listed in the Academic Program Rules of the degree of the Bachelor of Laws (see note 2 of the Notes (not forming part of the Academic Program Rules) above).

4.9.2 Candidates who have completed courses for a Bachelor of Finance degree under previous schedules may continue under the schedules then in force, with such modifications (if any) as shall be prescribed by the Board of Studies.

4.9.3 A candidate may not count for a Bachelor of Finance degree any course together with any other course which, in the opinion of the Board of Studies, contains a substantial amount of the same material and no course may be counted twice towards the degree. A table of unacceptable combinations of courses is available from the Schools of Economics, Commerce or Mathematical and Computer Sciences.

4.9.4 Except with the permission of the Board of Studies, a candidate may not enrol in non-Finance courses at Level II to the value of more than 8 units unless he or she has already passed or is concurrently enrolled in the compulsory Level II courses CORPFIN 2006 Business Finance II, ECON 2006 Economic and Financial Data Analysis II and ECON 2012 Financial Economics II (or equivalent). These non-Finance courses to the value of not more than 8 units shall not include courses in which the candidate has previously failed or from which they candidate has withdrawn.

4.9.5 Except with the permission of the Board of Studies, a candidate may not enrol in non-Finance courses at Level III to the value of more than 8 units unless he or she has already passed or is concurrently enrolled in the compulsory Level II courses CORPFIN 2006 Business Finance II, ECON 2006 Economic and Financial Data Analysis II and ECON 2012 Financial Economics II (or equivalent), and has already passed or is concurrently enrolled in Level III Finance courses to the value of 12 units. These non-Finance courses to the value of not more than 8 units shall not include courses in which the candidate has previously failed or from which the candidate has withdrawn.

4.10 The Honours degree

4.10.1 A candidate for the Honours degree shall attend lectures and pass examinations in accordance with the provisions of these Academic Program Rules.

4.10.2 A candidate may, subject to the approval of the Heads of the Schools of Commerce and Economics, and Heads of the Departments of Mathematics, Applied Mathematics or Statistics, proceed to the Honours degree in the course ECON 4005A/B Honours Finance.

4.10.3 A candidate may, subject to the approval of the Heads of the Schools/Departments concerned, proceed to the Honours degree taught jointly by more than one Department/School. Candidates must apply in writing to the Board of Studies for the proposed program of study to be approved in advance.

4.10.4 (a) A candidate preparing for the Honours year must complete the requirements for a Bachelor of Finance degree before proceeding with the Honours year, including ECON 3023 Econometrics III (ECON 3023 Econometrics III may be waived by permission of the Head of the School), and must obtain a high standard in courses presented for the Bachelor degree (or their equivalent elsewhere)

(b) A candidate who has satisfied the requirements for admission to Honours as set out in previous Academic Program Rules is also eligible to apply for admission to the Honours year as above.

4.10.5 The work of the Honours year is normally completed in one year of full-time study. The Board of Studies may permit a candidate to spread the work over two years, but not more, under such conditions as it may determine.

4.10.6 A candidate who is unable to complete the program for the Honours degree within the time allowed, or whose work is unsatisfactory at any stage of the program, or who withdraws from the program shall be reported to the Board of Studies, which may permit re-enrolment for an Honours degree under such conditions (if any) as it may determine.

4.10.7 A candidate who satisfies the requirements for Honours shall be awarded the Honours degree, but the Faculty shall decide within which of the following classes and divisions the degree shall be awarded:

1	First Class
2A	Second Class div A
2B	Second Class div B
3	Third Class
NAH	Not awarded.

4.11 Graduation

Subject to Chapter 89 of the Statutes, candidates who have satisfied the requirements for any award of the University shall be admitted to that award at a graduation ceremony for the purpose.

5 Special circumstances

When in the opinion of the relevant Faculty special circumstances exist, the Council, on the recommendation of the Faculty in each case, may vary any of the provisions of the Academic Program Rules for any particular award.

Bachelor of Finance – Graduate Attributes

Knowledge

- Knowledge and understanding of the content of economics and finance at levels that are internationally recognised. This includes core analytical knowledge, appropriate quantitative skills, and an understanding of the relevant institutional context.

Intellectual and social capabilities

- Cognitive skills such as the ability to analyse, evaluate and synthesise economic and financial information, both quantitative and qualitative, from a wide variety of sources.
- Critical thinking and problem-solving skills, especially as these apply to the analysis of economic and financial problems.
- Numeracy skills, especially in economic statistics and econometrics. Literacy and verbal communication skills of a high order in the presentation of arguments or evidence of an economic or financial nature.
- Skills in interpersonal understanding, with the capacity to communicate effectively and to work both independently and cooperatively with other professional economics or finance specialists.
- Capacity for future employment based on a professional education that appropriately balances the reflective, intuitive, and decision-making requirements of work in the economics and finance areas.
- To stimulate and maintain intellectual curiosity and a commitment to continuous learning.
- The ability to take a leadership role in the economics or finance profession as well as in the wider community, and a commitment to high standards of professional ethics.
- Proficiency in the use of computer-based technologies.

Attitudes and values

- A desire to be an informed, responsible and critically discriminating participant in academic, social, cultural and ethical issues, in the community of economists or finance specialists, in the workforce more generally, and both in Australia and abroad.
- A commitment to the highest community standards of ethical behaviour.
- An abiding sense of curiosity and enquiry both within and beyond the discipline.

School of Education

Contents

www.adelaide.edu.au/professions/education

Bachelor of Teaching

B.Teach. 71

Undergraduate awards in the School of Education

■ Degree of Bachelor of Teaching

Notes on Delegated Authority

1 Council has delegated the power to approve minor changes to the Academic Program Rules to the Executive Deans of Faculties.

2 Council has delegated the power to specify syllabuses to the Head of each department or centre concerned, such syllabuses to be subject to approval by the Faculty or by the Executive Dean on behalf of the Faculty.

Bachelor of Teaching

Academic Program Rules

1 General

There shall be a degree of Bachelor of Teaching.

2 Duration of program

To qualify for the Bachelor of Teaching as part of a double degree program, a student shall satisfactorily complete a program of 4 years of full time study or equivalent part time study in the two degrees concerned.

3 Admission

An applicant for admission will have been accepted for enrolment in a University of Adelaide Bachelor program that is approved by the Head of the School of Education as one appropriate to be taken concurrently with the Bachelor of Teaching.

3.1 Status, exemption and credit transfer.

A student of the School of Education who gains entry to another undergraduate degree program in the University, where that degree is associated with secondary school curricula, will have the following status granted towards the Bachelor of Teaching:

16 units of the other degree program at level 2,

24 units of the other degree program at level 3.

3.1.1 No student may be granted more than 12 units of status in the required Education courses listed in 5.1 below.

3.1.2 A candidate who has had practical teaching experience may, after enrolment, apply in writing to the School of Education for status in teaching practice.

4 Assessment and examinations

4.1 There shall be one of two systems of classification of pass in individual courses for the Bachelor of Teaching;

either

Non-Graded Pass *or*

Pass with High Distinction, Pass with Distinction, Pass with Credit, and Pass.

4.2 Review of Academic Progress

4.2.1 A student who fails a course and desires to take the course again shall again attend lectures and satisfactorily do such written and practical work as the teaching staff concerned may prescribe.

4.2.2 A student who has twice failed a course may not enroll for that course again except by special permission to be obtained in writing from the School and then only under such conditions as may be prescribed.

4.2.3 For the purposes of this clause a student who is refused permission to sit for an examination, or who does not, without a reason accepted by the Head of the School of Education as adequate, attend all or part of a final examination (or supplementary examination if granted) after having enrolled for at least two thirds of the normal period during which the course is taught, shall be deemed to have failed the examination.

5 Qualification requirements

5.1 Academic Program

To qualify for the degree of Bachelor of Teaching, students must successfully complete courses to the value of 73 units, which satisfy the following requirements:

5.1.1 Level I

EDUC1000 Primary School Interaction 3

5.1.2 Level II

EDUC 2000 Issues in Contemporary Education 4

plus 16 units of Level II courses in the other degree program.

5.1.3 Level III

EDUC 3000 Secondary School Interaction 2

plus 24 units of Level III courses in the other degree program.

5.1.4 Level IV Education courses

Students must successfully complete courses to the value of 24 units comprising the following:

Teaching Practice courses to the value of 6 units:

semester 1

EDUC 4300 Teaching Practice Part I 3

semester 2

EDUC 4301 Teaching Practice Part II 3

Curriculum and Methodology courses to the value of 6 units:

semester 1

EDUC 4302 Curriculum and Methodology A	3
EDUC 4306 Curriculum Issues in Australian Schools A	6

semester 2

EDUC 4303 Curriculum and Methodology B	3
EDUC 4307 Curriculum Issues in Australian Schools B	6

Education Studies courses to a total value of 12 units:

semester 1

EDUC 4304 Advanced Education Studies A	6

semester 2

EDUC 4305 Advanced Education Studies B	6

5.2 No candidate will be permitted to count towards an award any course, together with any other course, which, in the opinion of the Faculty concerned, contains a substantial amount of the same material; and no course or portion of a course may be counted twice towards an award.

5.3 Graduation

Subject to Chapter 89 of the Statutes, candidates who have satisfied the requirements for any award of the University shall be admitted to that award at a graduation ceremony for the purpose.

6 Special circumstances

When in the opinion of the relevant Faculty special circumstances exist, the Council, on the recommendation of the Faculty in each case, may vary any of the provisions of the Academic Program Rules for any particular award.

Bachelor of Teaching – Graduate Attributes

Students will acquire the following skills:

- A significant understanding of basic domains of knowledge - gained through the discipline-based undergraduate degree.
- A competence in constructing a pedagogical approach to teaching in the classroom - gained through the courses in the Bachelor of Teaching and in courses that might be designed especially in the other degree.
- A capacity to integrate the particular and special concern of families, peers and neighbourhoods in to their teaching - gained from ongoing experiences in a variety of schools, from year 1 of the double degree.
- An understanding of the existing school systems and the ability to explore how the next generation of schools might most appropriately be designed.

In particular, the Bachelor of Teaching, as part of a double-degree program, w ill contribute to the development of the following graduate attributes:

- Knowledge and understanding of the students' chosen discipline areas
- Cognitive skills in analysing, evaluating and synthesising information.
- The capacity for critical thinking and problem solving.
- Interpersonal and communication skills of a high order.
- The ability to fulfil leadership roles within the teaching profession and community at large.
- A commitment to participate responsibly and critically within their disciplines and their profession, as well as their local communities and the wider world.
- A strong sense of social justice and commitment to moral standards and cultural diversity.

Faculty of Engineering, Computer and Mathematical Sciences

Contents

www.adelaide.edu.au/ecms

Bachelor of Computer Science
B.Comp.Sc.
and

Bachelor of Computer Science (Software Engineering)
B.Comp.Sc. (Software Eng.) 77

Bachelor of Engineering
B.E. 90

Bachelor of Mathematical and Computer Sciences
B.Ma.& Comp.Sc. 77

Undergraduate awards in the Faculty of Engineering, Computer and Mathematical Sciences

- Degree of Bachelor of Computer Science
- Degree of Bachelor of Computer Science (Software Engineering)
- Degree of Bachelor of Engineering (Aerospace Engineering)
- Degree of Bachelor of Engineering (Automotive Engineering)
- Degree of Bachelor of Engineering (Chemical Engineering)
- Degree of Bachelor of Engineering (Chemical: Energy & Environment)
- Degree of Bachelor of Engineering (Chemical: Process & Product Engineering))
- Degree of Bachelor of Engineering (Chemical: Food, Wine & Biomolecular))
- Degree of Bachelor of Engineering (Civil and Environmental Engineering)
- Degree of Bachelor of Engineering (Civil and Structural Engineering)
- Degree of Bachelor of Engineering (Computer Systems Engineering)
- Degree of Bachelor of Engineering (Electrical and Electronic Engineering)
- Degree of Bachelor of Engineering (Electrical and Electronic Engineering) and Bachelor of Science (Physics)
- Degree of Bachelor of Engineering (Mechanical Engineering)
- Degree of Bachelor of Engineering (Mechatronic Engineering)
- Degree of Bachelor of Engineering (Petroleum Engineering)
- Degree of Bachelor of Engineering (Petroleum Engineering) and Bachelor of Engineering (Chemical Engineering)
- Degree of Bachelor of Engineering (Petroleum Engineering) and Bachelor of Engineering (Civil and Environmental Engineering)
- Degree of Bachelor of Engineering (Petroleum Engineering) and Bachelor of Engineering (Civil and Structural Engineering)
- Degree of Bachelor of Engineering (Petroleum Engineering) and Bachelor of Engineering (Mechanical Engineering)
- Degree of Bachelor of Engineering (Petroleum Engineering) and Bachelor of Science (Geology and Geophysics)
- Degree of Bachelor of Engineering (Petroleum Engineering) and Bachelor of Science (Physics)
- Degree of Bachelor of Engineering (Telecommunications Engineering)
- Degree of Bachelor of Engineering and Bachelor of Arts*
- Degree of Bachelor of Mathematical and Computer Sciences
- Honours degree of Bachelor of Computer Science
- Honours degree of Bachelor of Mathematical and Computer Sciences

* Available in disciplines of Aerospace, Chemical, Civil, Computer Systems, Electrical and Electronic, Environmental, I.T. & T, Mechanical and Mechatronic Engineering

Notes on Delegated Authority

1 Council has delegated the power to approve minor changes to the Academic Program Rules to the Executive Deans of Faculties.

2 Council has delegated the power to specify syllabuses to the Head of each department or centre concerned, such syllabuses to be subject to approval by the Faculty or by the Executive Dean on behalf of the Faculty.

Bachelor of Computer Science
Bachelor of Computer Science (Software Engineering)
Bachelor of Mathematical and Computer Sciences

Academic Program Rules

1 General

1.1 There shall be a degree of Bachelor of Mathematical and Computer Sciences and a degree of Bachelor of Computer Science in the Faculty of Engineering, Computer and Mathematical Sciences. A candidate may obtain either degree or both.

1.2 There shall be an Honours degree of Bachelor of Mathematical and Computer Sciences. A candidate may obtain either a degree of Bachelor of Mathematical and Computer Sciences or an Honours degree of Bachelor of Mathematical and Computer Sciences or both.

1.3 There shall be an Honours degree of Bachelor of Computer Science. A candidate may obtain either a degree of Bachelor of Computer Science or an Honours degree of Bachelor of Computer Science or both.

2 Duration of programs

The program of study for the Bachelor degrees shall extend over three years of full-time study or the equivalent part-time study.

3 Assessment and examinations

3.1 A candidate shall not be eligible to attend for examination unless the prescribed work has been completed to the satisfaction of the teaching staff concerned.

3.2 In determining a candidate's final result in a course (or part of a course) the examiners may take into account oral, written, practical and other work, provided that the candidate has been given adequate notice at the commencement of the teaching of the course of the way in which such work will be taken into account and of its relative importance in the final result.

3.3 There shall be four classifications of pass in the final assessment of any course for the Bachelor degree, as follows: Pass with High Distinction, Pass with Distinction, Pass with Credit, Pass. If the Pass classification be in two divisions, a pass in the higher division may be prescribed in the syllabuses as a prerequisite for admission to further studies in that course or to other courses or as assumed knowledge for such studies. There shall also be a classification of Conceded Pass. A candidate may present for the Bachelor degree only a limited number of courses for which a Conceded Pass has been obtained, as specified in the relevant Rule made under these Academic Program Rules.

3.4 A candidate who fails a course for the Bachelor degree or who obtains a lower division pass and who desires to take that course again shall, unless exempted wholly or partially therefrom by the Head of the School concerned, again complete the required work in that course to the satisfaction of the teaching staff concerned.

3.5 A candidate who has twice failed any course for the Bachelor degree may not enrol for that course again or for any other course which in the opinion of the Faculty contains a substantial amount of the same material, except by permission of the Faculty and then only under such conditions as the Faculty may prescribe.

4 Qualification requirements

4.1 General: the degree of Bachelor of Mathematical and Computer Sciences

4.1.2 To qualify for the Bachelor degree a candidate shall, subject to the conditions and modifications specified under 3.3 above, pass courses from 4.2 below to the value of at least 72 units which satisfy the following requirements:

(a) A candidate shall pass in Mathematical and Computer Sciences courses to the value of at least 36 units, of which courses to the value of at least 12 units shall be Level III Mathematical and Computer Sciences courses

(b) A candidate shall present either:

MATHS 1011 Mathematics IA

and

MATHS 1012 Mathematics IB

or both

MATHS 1014 Mathematics IMB and

MATHS 2004 Mathematics IIM

for the degree with the following provisions:

(i) A candidate shall obtain a Pass Division I standard or higher in either MATHS 1012 Mathematics IB or MATHS 2004 Mathematics IIM *and*

(ii) A candidate shall not present both MATHS 1012 Mathematics IB and MATHS 2004 Mathematics IIM for the degree.

(c) A candidate shall pass Level I courses to the value of at least 18 units

(d) A candidate shall pass Level II courses to the value of at least 20 units

(e) A candidate presenting MATHS 1012 Mathematics IMB and MATHS 2004 Mathematics IIM shall present passes in Level II courses other than Mathematics IIM to the value of at least 20 units, and may present no more than 24 units at Level I

(f) A candidate shall pass Level II and Level III courses to a minimum value of 44 units, with at least 20 units being Level III courses.

4.1.3 A candidate may present for the degree courses with the result of Conceded Pass within the following limits: courses with an aggregate units value of not more than 6, provided that no course thus presented has a units value of more than 3.

4.1.4 Subject to 4.1.3, a candidate who has been previously enrolled in an Engineering degree and who has presented the following courses toward a Bachelor of Engineering degree may present them as Mathematical and Computer Sciences courses:

APP MTH 2000 Differential Equations & Fourier Series	2
APP MTH 2001 Linear Programming and Numerical Analysis	2
APP MTH 2002 Vector Analysis & Complex Analysis	1.5
APP MTH 2004 Numerical Methods in Engineering (Chemical)	2
APP MTH 2009 Numerical Analysis and Probability and Statistics	2
APP MTH 2010 Differential Equations and Statistical Methods (Civil)	3
CHEM ENG 1002 Engineering Computing I	2
COMP SCI 1000 Engineering Programming IE	2.5
ELEC ENG 1004 Logic Design	1.5
STATS 2001 Statistical Methods (Civil)	1.5
STATS 2004 Laplace Transforms and Probability and Statistical Methods	2

In addition, such a candidate may present Level I and II Engineering courses that are not listed under 4.2.1 and 4.2.2 of these Academic Program Rules. These courses do not count as Mathematical and Computer Sciences courses.

Notes (not forming part of the Academic Program Rules)

This clause enables Engineering students to complete the first three years of their program and to qualify for the B.Ma.& Comp.Sc. within four years, by fulfilling the requirements of 4.1.8. Students wishing to qualify for the B.Ma.& Comp.Sc. in this way must apply for admission to the B.Ma.& Comp.Sc. program.

4.1.5 Except with the permission of the Faculty, a candidate may not enrol in courses to the value of more than 18 units taught by disciplines other than Applied Mathematics, Pure Mathematics and Computer Science before obtaining at least a Division I pass in MATHS 1014 Mathematics IMB or MATHS 1012 Mathematics IB. These courses to the value of not more than 18 units shall not include courses in which a candidate has failed or from which a candidate has withdrawn.

4.1.6 A candidate may enrol in no more than 12 Level II units in total offered by the Schools of Economics and Commerce. These courses to the value of not more than 12 units shall not include courses in which a candidate has failed or from which a candidate has withdrawn.

4.1.7 Except with the permission of the Faculty, a candidate may not enrol in courses to the value of more that 50 units taught by disciplines other than Applied Mathematics, Pure Mathematics and Computer Science. These courses shall not include courses in which a candidate has failed or from which a candidate has withdrawn.

4.1.8 A graduate who wishes to qualify for the degree of Bachelor of Mathematical and Computer Sciences and to count towards that degree courses which have already been presented for another degree may do so providing such a candidate presents a range of courses which fulfils the requirements of 4.1.2 above, including Level II and Level III courses to the value of at least 24 units, which comprise Level III courses to the value of at least 20 units and Level II courses to the value of at most 4 units which have not been presented for any other degree. This must include Level III Mathematics and Computer Science courses to the value of at least 12 units.

4.1.9 No candidate will be permitted to count for the degree any course together with any other course which, in the opinion of the Faculty, contains a substantial amount of the same material; and no course may be counted twice towards the degree. No candidate may present the same section of a course in more than one course for the degree.

4.1.10 Candidates who commenced their programs of study for the degree prior to 1989 may qualify for the degree by fulfilling the requirements of the regulations and schedules in force prior to 1989, with such modifications as the Faculty may deem necessary to take account of changes to courses from 1989 onwards. Alternatively, candidates may complete their programs of study under present Academic Program Rules, with such modifications as the Faculty may deem necessary to ensure that courses validly passed

under previous regulations and schedules may be counted under the present Rules. For the purposes of this clause the following equivalences will be used:

First year course 6 units at Level I

First year half-course 3 units at Level I

Second year course 8 units at Level II

Second year half-course 4 units at Level II

Third year course 12 units at Level III

Third year half-course 6 units at Level III

4.1.11 Except with permission of the Faculty, students who have completed at another institution part of the equivalent of the requirements for the Adelaide degree of Bachelor of Mathematical and Computer Sciences will be required as a minimum to complete Level III courses from 4.2.3 with an aggregate units value of 24 including Mathematical and Computer Sciences courses with an aggregate units value of 12.

4.1.12 With special permission of the Faculty a student who has completed most of the courses for the degree of Bachelor of Mathematical and Computer Sciences at the University of Adelaide including Level III courses with an aggregate units value of 12 may be permitted to complete the requirements for the degree at another institution. All applications must be made in writing to the Faculty.

4.1.13 To complete a major in a Mathematical and Computer Sciences discipline, a candidate shall satisfy the criteria specified below and present passes (not Conceded Passes) in the required courses.

Applied Mathematics

Level III courses offered in Applied Mathematics to the value of at least 10 units.

Computer Science

Level II courses offered by the School of Computer Science to the value of 8 units. In addition, candidates must present Level III Computer Science courses to the value of at least 12 units, including COMP SCI 3006 Software Engineering and Project.

Pure Mathematics

Level III courses offered in Pure Mathematics to the value of at least 10 units.

Statistics

Level III courses in Statistics to the value of at least 10 units, including STATS 3001 Statistical Modelling III, and STATS 3006 Mathematical Statistics III, and at least 4 units chosen from:

APP MTH 3001 Applied Probability III*

APP MTH 3003 Life Contingencies III*

APP MTH 3016 Telecommunications Systems Modelling III*

STATS 3000 Industrial Statistics III

STATS 3002 Environmental Statistics III

STATS 3003 Sampling Theory and Practice III

STATS 3005 Time Series III

STATS 3008 Biostatistics III

STATS 3010 Experimental Design III

* These courses may be presented towards a major in Statistics or a major in Applied Mathematics but not both.

4.2 Program of study for the degree of Bachelor of Mathematical and Computer Sciences

Students are advised that some courses cannot be counted with others towards the degree of Bachelor of Mathematical and Computer Sciences. A list of unacceptable combinations is available from the Faculty Office.

Notwithstanding the Academic Program Rules and syllabuses published in this volume, a number of the courses listed in the program leading to the degree of Bachelor of Mathematical and Computer Sciences may not be offered in 2005.

4.2.1 Level I courses

4.2.1.1 Mathematical & Computer Sciences courses

APP MTH 1000 Scientific Computing I	3
COMP SCI 1003 Internet Computing	3
COMP SCI 1008 Computer Science IA	3
COMP SCI 1009 Computer Science IB	3
MATHS 1008 Mathematics for Information Technology I	3
MATHS 1011 Mathematics IA	3
MATHS 1012 Mathematics IB	3
MATHS 1013 Mathematics IMA	3
MATHS 1014 Mathematics IMB	3
STATS 1000 Statistical Practice I	3

4.2.1.2 Humanities and Social Sciences courses

Level I courses listed in 6.12.1 for the degree of B.A. except COMP SCI 1004 Computer Literacy I, MATHS 1002 Quantitative Methods Using Computers I, LBST 1010 Democratic Organising Technology I and courses listed which are taught by the Schools of Economics and Commerce.

4.2.1.3 Economics and Commerce courses

Courses listed in 4.7.1 (a) for the degree of B.Ec. except the courses ECON 1008 Business Data Analysis I and ECON 1005 Mathematics for Economists I. Level I courses listed in 4.8.1 for the degree of B.Com.

*4.2.1.4 Law courses**

LAW 1001 Introduction to Australian Law 3

* Available only to students who have been accepted for candidature to the LL.B.

*4.2.1.5 Engineering courses**

C&ENVENG 1000 Engineering Planning and Design 2

C&ENVENG 1001 Statics 2

CHEM ENG 1000 Process Systems 2

CHEM ENG 1003 Materials I 2

CHEM ENG 1005 Process Heat Transfer 2

ELEC ENG 1006 Electrical Engineering I 3

ELEC ENG 1007 Engineering Planning, Design and Communication 3

ELEC ENG 1008 Electrical Engineering IM 2

MECH ENG 1000 Dynamics 2

MECH ENG 1001 Design Graphics 2

MECH ENG 1005 Engineering Planning, Design and Communication M 3

* CHEM ENG 1002 Engineering Computing I and C&ENVENG 1003 Engineering Modelling and Analysis I cannot be presented towards this degree.

Candidates who have been previously enrolled in an Engineering degree at the University of Adelaide are also directed to Academic Program Rule 4.1.4.

4.2.1.6 Science courses

Level I Science courses listed in 5.6.1 for the degree of B.Sc. in the Faculty of Sciences.

4.2.1.7 Design Studies courses

Level I Design Studies courses listed in 5.1.1 for the degree of Bachelor of Design Studies

4.2.2 Level II courses

4.2.2.1 Mathematical and Computer Sciences courses

Applied and Pure Mathematics

MATHS 2004 Mathematics IIM 4

Applied Mathematics

APP MTH 2000 Differential Equations and Fourier Series 2

APP MTH 2002 Vector Analysis and Complex Analysis 2

APP MTH 2003 Modelling with Differential Equations II 2

APP MTH 2008 Operations Research II 2

Computer Science

COMP SCI 2000 Computer Systems 3

COMP SCI 2002 Database & Information Systems 3

COMP SCI 2003 Numerical Methods 3

COMP SCI 2004 Data Structures and Algorithms 3

COMP SCI 2005 Systems Programming C and C++ 3

COMP SCI 2006 Introduction to Software Engineering 3

Mathematical Physics

PHYSICS 2001 Classical Mechanics II 2

PHYSICS 2002 Classical Fields and Mathematical Methods II 2

Pure Mathematics

PURE MTH 2000 Discrete Mathematics II 2

PURE MTH 2001 Complex Analysis II 2

PURE MTH 2002 Algebra II 2

PURE MTH 2005 Multivariable Calculus II 2

Statistics

STATS 2002 Introduction to Mathematical Statistics II 2

STATS 2003 Statistical Practice II 2

STATS 2011 Statistical Modelling II 2

4.2.2.2 Humanities and Social Sciences courses

Level II courses listed in 6.12.2 for the degree of B.A. except LBST 2010 Democratic Organising Technology II, and LING 2033 Language, Communication and Technology.

4.2.2.3 Economics and Commerce courses

Courses listed in 4.7.1(a) for the degree of B.Ec. except the courses ECON 2005 Mathematical Economics II and ECON 2006 Economic & Financial Data Analysis II. Level II courses listed in 4.8.1 for the degree of B.Com. Courses listed in 4.9.1 (a) for the degree of B.Fin. except the course APP MTH 2005 Financial Computing II.

4.2.2.4 Engineering Courses

Candidates who have been previously enrolled in the an Engineering degree at the University of Adelaide are directed to Academic Program Rule 4.1.4.

*4.2.2.5 Law courses**

LAW 1002 Law of Torts 4

LAW 1003 Law of Contract 4

* Available only to students who have been accepted for candidature to the LL.B.

4.2.2.6 Science courses

Level II Science courses listed in 5.6.3 for the degree of B.Sc. in the Faculty of Sciences.

4.2.3 Level III courses

4.2.3.1 Mathematical and Computer Sciences courses

Applied and Pure Mathematics

MATHS 3014 Mathematics of Finance III 2

Applied Mathematics

APP MTH 3000 Computational Mathematics III 3
APP MTH 3001 Applied Probability III 3
APP MTH 3002 Fluid Mechanics III 3
APP MTH 3003 Life Contingencies III 3
APP MTH 3004 Mathematical Biology III 3
APP MTH 3005 Mathematical Programming III 3
APP MTH 3006 Industrial Mathematics III 3
APP MTH 3010 Variational Methods & Optimal Control III 3
APP MTH 3012 Financial Modelling III 3
APP MTH 3013 Differential Equations III 3
APP MTH 3014 Optimisation III 3
APP MTH 3016 Telecommunication Systems Modelling III 3

Computer Science

COMP SCI 3001 Computer Networks and Applications 3
COMP SCI 3002 Programming Techniques 3
COMP SCI 3003 Knowledge Representation 3
COMP SCI 3004 Operating Systems 3
COMP SCI 3005 Computer Architecture 3
COMP SCI 3006 Software Engineering and Project 3
COMP SCI 3007 Artificial Intelligence 3
COMP SCI 3008 Systems Analysis and Project 3
COMP SCI 3009 Advanced Programming Paradigms 3
COMP SCI 3010 Numerical Analysis 3
COMP SCI 3011 Compiler Construction and Project 3
COMP SCI 3012 Distributed Systems 3
COMP SCI 3013 Event Driven Computing 3
COMP SCI 3014 Computer Graphics 3

Mathematical Physics

PHYSICS 3003 Mathematical Physics 2
PHYSICS 3004 Quantum Mechanics III 3
PHYSICS 3006 Advanced Dynamics and Relativity 3
PHYSICS 3009 Statistical Mechanics 2
PHYSICS 3022 Applied Quantum Mechanics 2

Pure Mathematics

PURE MTH 3002 Topology and Analysis III 3
PURE MTH 3003 Number Theory III 2
PURE MTH 3005 Fractal Geometry III 2
PURE MTH 3006 Coding and Cryptology III 2
PURE MTH 3007 Groups and Rings III 3
PURE MTH 3009 Integration and Analysis III 3
PURE MTH 3010 Logic III 2
PURE MTH 3012 Fields and Geometry III 3
PURE MTH 3017 Real Analysis III 3
PURE MTH 3018 Coding and Cryptology (Extended) III 3

Statistics

STATS 3000 Industrial Statistics III 2
STATS 3001 Statistical Modelling III 3
STATS 3002 Environmental Statistics III 3
STATS 3003 Sampling Theory and Practice III 3
STATS 3005 Time Series III 3
STATS 3006 Mathematical Statistics III 3
STATS 3007 Non-parametric Methods III 3
STATS 3008 Biostatistics III 3
STATS 3010 Experimental Design III 3
STATS 3011 Bioinformatics III 3

4.2.3.2 Miscellaneous (non-Mathematical and Computer Sciences) courses

MATHS 3015 Communication Skills III 2
MATHS 4003 Industry Practicum (Maths. & Comp. Sc.) 2

4.2.3.3 Humanities and Social Sciences courses

Level III courses listed in 6.12.3 for the degree of B.A, except , and LING 3033 Language, Communication and Technology.

4.2.3.4 Economics and Commerce courses

Courses listed in 4.7.1 (a) for the degree of B.Ec. Level III courses listed in 4.8.1 for the degree of B.Com. Courses listed in 4.9.1 (a) for the degree of B.Fin., except for APP MTH 3011 Financial Modelling Techniques III.

*4.2.3.5 Law courses**

LAW 1004 Law of Crime 4
LAW 1005 Property Law 4
Law elective 4

* Available only to students who have been accepted for candidature to the LL.B.

4.2.3.6 Science courses

Level III Science courses listed in 5.6.5 for the degree of B.Sc. in the Faculty of Sciences.

4.3 General: the degree of Bachelor of Computer Science, Bachelor of Computer Science (Software Engineering)

4.3.1 The program of study for the degree of B.Comp.Sc. and B.Comp.Sc.(Software Eng.) shall extend over three years of full time study or equivalent.

4.3.2 To qualify for the Bachelor degree a candidate shall, subject to 4.3.5 below, present passes in courses from 4.4 to the value of at least 72 units including:

(a) at least 24 units for Level I courses

(b) at least 20 units for Level II courses

(c) at least 24 units for Level III courses.

Notes (not forming part of the Program Rules)

In view of 4.3.3.(d) and (e), students may need to consider undertaking 22 units of study at Level II and 26 units of study at Level III, especially those planning a double major.

4.3.3 The courses presented must include

(a) At least 9 units of Level I Computer Science courses including:

COMP SCI 1008 Computer Science IA *and*

COMP SCI 1009 Computer Science IB

at Pass Division I or higher

(b) At least one of the following courses at a Level of Pass Division I or higher:

MATHS 1008 Mathematics for Information Technology I

MATHS 1012 Mathematics IB

MATHS 2004 Mathematics IIM

A candidate shall not present both MATHS 1012 Mathematics IB and MATHS 2004 Mathematics IIM for the degree.

(c) At least 10 units of Level II Computer Science courses including:

COMP SCI 2000 Computer Systems *and*

COMP SCI 2004 Data Structures and Algorithms

(d) MATHS 3015 Communication Skills III *or*

MATHS 3016 Communication Skills (ESL) III

(e) At least 18 units of Level III Computer Science courses.

4.3.4 Bachelor of Computer Science (Software Engineering)

(a) To qualify for the degree of Computer Science (Software Engineering), candidates must satisfy all conditions in 4.3.2. and 4.3.3 above.

(b) in addition, the courses presented must include at the level of Pass or higher:

COMP SCI 2005 Systems Programming C and C++	3
COMP SCI 2006 Introduction to Software Engineering	3
COMP SCI 3002 Programming Techniques	3
COMP SCI 3006 Software Engineering & Project	3
COMP SCI 3011 Compiler Construction & Project	3
COMP SCI 3012 Distributed Systems	3
COMP SCI 3013 Event Driven Computing	3

4.3.5 Subject to 4.3.12, a candidate may present for the degree courses passed at the conceded pass level within the following limits: Level II and/or Level III courses with an aggregate units value of not more than 6 provided that no course thus presented has a units value of more than 3.

4.3.6 Subject to 4.3.5, students enrolled in an Engineering program offered by the Faculty may qualify for the B.Comp.Sc. by fulfilling the requirements of 4.3.8 (a) of these Academic Program Rules.

Notes (not forming part of the Academic Program Rules).

This clause enables Engineering students to complete the requirements of the B.Comp.Sc. degree before completing the requirements of the Bachelor of Engineering degree. Students wishing to qualify for the B.Comp.Sc. in this way must apply for admission to the B.Comp.Sc. program.

4.3.7 Except with the permission of the Faculty, a candidate may not enrol in courses to the value of more than 18 units taught by disciplines other than Applied Mathematics, Pure Mathematics, and Computer Science before obtaining at least a Division I pass in:

COMP SCI 1009 Computer Science IB

and either

MATHS 1008 Mathematics for Information Technology I *or*
MATHS 1012 Mathematics IB *or*

MATHS 1014 Mathematics IMB.

The courses to the value of not more than 18 units shall not include courses in which a candidate has failed or courses from which a candidate has withdrawn.

4.3.8 A graduate who wishes to qualify for the Bachelor degree of Bachelor of Computer Science and to count towards that degree courses which have already been presented for another award may do so providing such a candidate

either

(a) presents a range of courses which fulfils the requirements of 4.3.2 and 4.3.3 above, including Level II and Level III courses to the value of at least 24 units, which comprise Level III courses to the value of at least 18 units and Level II courses to the value of at least 6 units which have not been presented for any other degree. This must include Level III Computer Science courses to the value of at least 18 units *or*

(b) presents a range of courses as determined by the Faculty in accordance with any formal articulation programs approved by the Faculty.

4.3.9 No candidate will be permitted to count for the degree any course together with any other course which, in the opinion of the Faculty, contains a substantial amount of the same material; and no course may be counted twice towards the same degree. No candidate may present the same section of a course in more than one course for the degree.

4.3.10 Students who have completed at another institution part of the equivalent of the requirements for the Adelaide degree of Bachelor of Computer Science will be required as a minimum to complete Level III courses from 4.4 with an aggregate units value of 24 satisfying the requirements of 4.3.3(d) and 4.3.3 (e).

4.3.11 With special permission of the Faculty, a student who has completed most of the courses for the degree of Bachelor of Computer Science at the University of Adelaide including Level III Computer Science courses with an aggregate units value of 12 may be permitted to complete the requirements for the degree at another institution. All applications must be made in writing to the Faculty.

4.3.12 To complete a major in a Mathematical or Computer Sciences discipline, a candidate shall satisfy the criteria specified below and present passes (not Conceded Passes) in the required courses.

Applied Mathematics

Level III courses offered in Applied Mathematics to the value of at least 10 units.

Computer Science

Level II courses offered by the School of Computer Science to the value of 8 units. In addition, candidates must present Level III Computer Science courses to the value of at least 12 units, including COMP SCI 3006 Software Engineering and Project.

Pure Mathematics

Level III courses offered in Pure Mathematics to the value of at least 10 units.

Statistics

Level III courses in Statistics to the value of at least 10 units including STATS 3001 Statistical Modelling III, and STATS 3006 Mathematical Statistics III, and at least 4 units chosen from:

APP MTH 3001 Applied Probability III*

APP MTH 3003 Life Contingencies III*

APP MTH 3016 Telecommunications Systems Modelling III*

STATS 3000 Industrial Statistics III

STATS 3002 Environmental Statistics III

STATS 3003 Sampling Theory and Practice III

STATS 3005 Time Series III

STATS 3008 Biostatistics III

STATS 3010 Experimental Design III

* These courses may be presented towards a major in Statistics or a major in Applied Mathematics but not both.

4.4 Program of study for the degree of Bachelor of Computer Science

Note: Students are advised that some courses cannot be counted with others towards the degree of B.Comp.Sc.

Notwithstanding the Academic Program Rules and syllabuses published in this volume, a number of the courses listed in the program leading to the degree of B.Comp.Sc. may not be offered in 2005. The availability of all courses is conditional upon the availability of staff and facilities.

4.4.1 Level I

4.4.1.1 Mathematical and Computer Sciences courses

APP MTH 1000 Scientific Computing I	3
COMP SCI 1003 Internet Computing	3
COMP SCI 1008 Computer Science IA	3
COMP SCI 1009 Computer Science IB	3
MATHS 1008 Mathematics for Information Technology I	3
MATHS 1011 Mathematics IA	3
MATHS 1012 Mathematics IB	3
MATHS 1013 Mathematics IMA	3
MATHS 1014 Mathematics IMB	3
STATS 1000 Statistical Practice I	3

4.4.1.2 Humanities and Social Sciences courses

Level I courses listed in 6.12.1 for the degree of B.A. except COMP. SC 1004 Computer Literacy I, LBST 1010 Democratic Organising Technology I, MATHS 1002 Quantitative Methods Using Computer I, and courses listed which are taught by the Schools of Economics and Commerce.

4.4.1.3 Economics and Commerce courses

Courses listed in 4.7.1.(a) for the degree of B. Ec. except the course ECON 1005 Mathematics for Economists I and ECON 1008 Business Data Analysis I. Level I Courses listed in 4.8.1 for the degree of B. Com except for ECOMMRCE 1000 Information Systems I.

*4.4.1.4 Law courses**

LAW 1001 Introduction to Australian Law	3

Available only to students who have been accepted for candidature to the LL.B.

*4.4.1.5 Engineering courses**

Level I Engineering courses listed in 6.5 for the degree of Bachelor of Engineering except CHEM ENG 1002 Engineering Computing I and C&ENVENG 1003 Engineering Modelling and Analysis I.

4.4.1.6 Science courses

Level I Science courses listed in 5.6.1 for the degree of B.Sc. in the Faculty of Sciences.

4.4.1.7 Design Studies courses

Level I Design Studies courses listed in 5.1.1 for the degree of Bachelor of Design Studies

4.4.2 Level II

4.4.2.1 Mathematical and Computer Sciences courses

Applied and Pure Mathematics

MATHS 2004 Mathematics IIM	4

Applied Mathematics

APP MTH 2000 Differential Equations and Fourier Series	2
APP MTH 2002 Vector Analysis and Complex Analysis	2
APP MTH 2003 Modelling with Differential Equations II	2
APP MTH 2008 Operations Research II	2

Computer Science

COMP SCI 2000 Computer Systems	3
COMP SCI 2002 Database and Information Systems	3
COMP SCI 2003 Numerical Methods	3
COMP SCI 2004 Data Structures and Algorithms	3
COMP SCI 2005 Systems Programming in C and C++	3
COMP SCI 2006 Introduction to Software Engineering	3

Mathematical Physics

PHYSICS 2001 Classical Mechanics II	2
PHYSICS2002 Classical Fields and Mathematical Methods II	2

Pure Mathematics

PURE MTH 2000 Discrete Mathematics II	2
PURE MTH 2001 Complex Analysis II	2
PURE MTH 2002 Algebra II	2
PURE MTH 2005 Multivariable Calculus II	2

Statistics

STATS 2002 Introduction to Mathematical Statistics II	2
STATS 2003 Statistical Practice II	2
STATS 2011 Statistical Modelling II	2

4.4.2.2 Humanities and Social Sciences courses

Level II courses listed in 6.12.2 for the degree of B. A. except LBST 2010 Democratic Organising Technology II and LING 2033 Language, Communication and Technology.

4.4.2.3 Economics and Commerce courses

Courses listed in 4.7.1.(a) for the degree of B.E c. except the courses ECON 2006 Economic & Financial Data Analysis II and ECON 2005 Mathematical Economics II. Level II courses listed in 4.8.1 for the degree of B. Com. Courses listed in 4.9.1(a) for the degree of B. Fin. except APP MTH 2005 Financial Computing II.

*4.4.2.4 Law courses**

LAW 1002 Law of Torts	4
LAW 1003 Law of Contract*	4

* Available only to students who have been accepted for candidature to the LL.B

4.4.2.5 Engineering courses

Level II Engineering courses listed in 6.5 for the degree of Bachelor of Engineering

4.4.2.6 Science courses

Level II Science courses listed in 5.6.3 for the degree of B.Sc. in the Faculty of Sciences.

4.4.3 Level III

4.4.3.1 Mathematical and Computer Sciences courses

Applied and Pure Mathematics

MATHS 3014 Mathematics of Finance III	2

Applied Mathematics

APP MTH 3000 Computational Mathematics III	3
APP MTH 3001 Applied Probability III	3
APP MTH 3002 Fluid Mechanics III	3
APP MTH 3003 Life Contingencies III	3
APP MTH 3004 Mathematical Biology III	3
APP MTH 3005 Mathematical Programming III	3
APP MTH 3006 Industrial Mathematics III	3
APP MTH 3010 Variational Methods and Optimal Control III	3
APP MTH 3012 Financial Modelling III	3
APP MTH 3013 Differential Equations III	3
APP MTH 3014 Optimisation III	3
APP MTH 3016 Telecommunication Systems Modelling III	3

Computer Science

COMP SCI 3001 Computer Networks and Applications	3
COMP SCI 3002 Programming Techniques	3
COMP SCI 3003 Knowledge Representation	3
COMP SCI 3004 Operating Systems	3
COMP SCI 3005 Computer Architecture	3

COMP SCI 3006 Software Engineering and Project	3
COMP SCI 3007 Artificial Intelligence	3
COMP SCI 3008 Systems Analysis and Project	3
COMP SCI 3009 Advanced Programming Paradigms	3
COMP SCI 3010 Numerical Analysis	3
COMP SCI 3011 Compiler Construction and Project	3
COMP SCI 3012 Distributed Systems	3
COMP SCI 3013 Event Driven Computing	3
COMP SCI 3014 Computer Graphics	3
Mathematical Physics	
PHYSICS 3003 Mathematical Physics	2
PHYSICS 3004 Quantum Mechanics III	3
PHYSICS 3006 Advanced Dynamics and Relativity	3
PHYSICS 3009 Statistical Mechanics	2
PHYSICS 3022 Applied Quantum Mechanics	2
Pure Mathematics	
PURE MTH 3002 Topology and Analysis III	3
PURE MTH 3003 Number Theory III	2
PURE MTH 3005 Fractal Geometry III	2
PURE MTH 3006 Coding and Cryptology III	2
PURE MTH 3007 Groups and Rings III	3
PURE MTH 3009 Integration and Analysis III	3
PURE MTH 3010 Logic III	2
PURE MTH 3012 Fields and Geometry III	3
PURE MTH 3017 Real Analysis III	3
PURE MTH 3018 Coding and Cryptology (Extended) III	3
Statistics	
STATS 3000 Industrial Statistics III	2
STATS 3001 Statistical Modelling III	3
STATS 3002 Environmental Statistics III	3
STATS 3003 Sampling Theory and Practice III	3
STATS 3004 Multivariate Analysis III	3
STATS 3005 Time Series III	3
STATS 3006 Mathematical Statistics III	3
STATS 3007 Non-parametric Methods III	3
STATS 3008 Biostatistics III	3
STATS 3010 Experimental Design III	3
STATS 3011 Bioinformatics III	3

4.4.3.2 Miscellaneous (non-Mathematical and Computer Sciences) courses

MATHS 3015 Communication Skills III	2
MATHS 4003 Industry Practicum (Maths. & Comp. Sc.)	2

4.4.3.3 Humanities and Social Sciences courses

Level III courses listed in 6.12.3 for the degree of B.A. except LING 3033 Language, Communication and Technology.

4.4.3.4 Economics and Commerce courses

Courses listed in 4.7.1(a) for the degree of B.Ec. Level III courses listed in 4.8.1 for the degree of B. Com. Courses listed in 4.9.1(a) for the degree of B. Fin., except for App Mth 3011 Financial Modelling Techniques III.

*4.4.3.5 Law courses**

Law 1004 Law of Crime	4
Law 1005 Property Law	4
Law elective	4

* Available only to students who have been accepted for candidature to the LL.B.

4.4.3.6 Engineering courses

Level III Engineering courses listed in 6.5 for the degree of Bachelor of Engineering

4.4.3.7 Science courses

Level III Science courses listed in 5.6.5 for the degree of B. Sc. in the Faculty of Sciences.

4.5 Honours programs

To be eligible to be admitted to an Honours degree program, a candidate shall complete the requirements for an Bachelor degree or equivalent to a standard which is acceptable to the Faculty for the purpose of admission to the Honours degree.

A candidate who satisfies the requirements for Honours shall be awarded the Honours degree, but the Faculty shall decide within which of the following classes and divisions the degree shall be awarded:

1	First Class
2A	Second Class div A
2B	Second Class div B
3	Third Class
NAH	Not awarded.

4.5.1 The Honours degree of Bachelor of Mathematical and Computer Sciences

4.5.1.1 A candidate may, subject to the approval of the Head of the Discipline concerned, proceed to the Honours degree in one of the following courses, each with the value of twenty-four units:

APP MTH 4011A/B Honours Applied Mathematics and Computer Science

APP MTH 4015A/B Honours Applied Mathematics (B.A. or B.Sc.)

APP MTH 4016A/B Honours Applied Mathematics and Genetics

APP MTH 4017A/B Honours Applied Mathematics and Statistics

APP MTH 4018A/B Honours Applied Mathematics and Environmental Biology

COMP. SCI 4999A/B Honours Computer Science

Maths 4000A/B Honours Mathematical Sciences

PHYSICS 4001A/B Honours Mathematical Physics

PURE MTH 4001A/B Honours Pure Mathematics and Statistics

PURE MTH 4002A/B Honours Mathematical Physics and Pure Mathematics

PURE MTH 4003A/B Honours Pure and Applied Mathematics (B.A. or B.Sc.)

PURE MTH 4004A/B Honours Computer Science and Pure Mathematics

PURE MTH 4005A/B Honours Pure Mathematics (B.A. or B.Sc.)

PURE MTH 4998A/B Honours Philosophy and Pure Mathematics

STATS 4000A/B Honours Statistics (B.A or B.Sc.)

4.5.1.2 A candidate may, subject to the approval of the Faculty in each case, proceed to the Honours degree in a course taught in a department in another faculty. Such candidates must consult the Head of the school concerned and apply in writing to the Faculty for admission to the Honours program.

4.5.1.3 The work of the Honours program must be completed in one year of full-time study, save that on the recommendation of the Head of the School concerned, the Faculty may permit a candidate to spread the work over two years, but no more, under such conditions as it may determine.

4.5.1.4 Unless granted permission to spread the work of the Honours program over two years under 4.5.1.3, a candidate for the Honours degree in any course shall not begin Honours work in that course until he/she has qualified for the degree of Bachelor of Arts or Bachelor of Mathematical and Computer Sciences or Bachelor of Science or such other degree as may be acceptable to the Faculty. A candidate who has been granted permission to spread the work of the Honours program over two years must fulfil the requirements for the Bachelor degree before beginning the work of the second year of the Honours program.

4.5.1.5 A graduate who has obtained the Honours degree of Bachelor of Arts may not proceed to the Honours degree of Bachelor of Science in the same program.

4.5.1.6 A graduate who has obtained the degree of Bachelor of Arts and has fulfilled the requirements of 4.5.1 of the degree of Bachelor of Mathematical and Computer Sciences shall be awarded the Honours degree of Bachelor of Arts.

4.5.1.7 A candidate may not enrol a second time for the Honours program in the same course if he/she:

(a) has already qualified for Honours in that course *or*

(b) has presented himself/herself for examination in that course but has failed to obtain Honours *or*

(c) has withdrawn from the program unless the Faculty under 4.5.1.8 permits re-enrolment.

4.5.1.8 If a candidate is unable to complete the program for the Honours degree within the time allowed, or if a candidate's work is unsatisfactory at any stage of the program, or if a candidate withdraws from the program, such fact shall be reported to Faculty. The Faculty may permit the candidate to re-enrol for an Honours degree under such conditions (if any) as it may determine.

4.5.2 The Honours degree of Bachelor of Computer Science

4.5.2.1 A candidate may, subject to the approval of the Head of School of Computer Science, proceed to the Honours degree in one of the following courses, each with the value of 24 units:

APP MTH 4011A/B Honours Applied Mathematics and Computer Science

COMP SCI 4999A/B Honours Computer Science

PURE MTH 4004A/B Honours Computer Science and Pure Mathematics.

4.5.2.2 The work of the Honours Program must be completed in one year of full-time study, save that on the recommendation of the Head of the School of Computer Science, the Faculty may permit a candidate to spread the work over two years, but no more, under such conditions as it may determine.

4.5.2.3 Unless granted permission to spread the work of the Honours program over two years under 4.5.2.2, a candidate for the Honours degree shall not begin Honours work until he/she has qualified for the degree of Bachelor of Computer Science or any other degree as may be acceptable to the Faculty. A candidate who has been granted permission to spread the work of the Honours program over two years must fulfil the requirement for the Bachelor degree before beginning the work of the second year of the Honours program.

4.5.2.4 A candidate may not enrol a second time for the Honours program in Computer Science if he/she:

(a) has already qualified for Honours in that program *or*

(b) has presented himself/herself for examination in the Honours program in that course but has failed to obtain Honours *or*

(c) has withdrawn from the program unless the Faculty under 4.5.2.5 permits re-enrolment.

4.5.2.5 If a candidate is unable to complete the program for the Honours degree within the time allowed, or if a candidate's work is unsatisfactory at any stage of the program, or if a candidate withdraws from the program, such fact shall be reported to Faculty. The Faculty may permit the candidate to re-enrol for an Honours degree under such conditions (if any) as it may determine.

4.6 Graduation

Subject to Chapter 89 of the Statutes, candidates who have satisfied the requirements for any award of the University shall be admitted to that award at a graduation ceremony for the purpose.

5 Special circumstances

When in the opinion of the relevant Faculty special circumstances exist, the Council, on the recommendation of the Faculty in each case, may vary any of the provisions of the Academic Program Rules for any particular award.

Bachelor of Computer Science – Graduate Attributes
Bachelor of Computer Science (Software Engineering) – Graduate Attributes

The objectives of the undergraduate programs in Computer Science are to support the mission of the University of Adelaide (to advance knowledge, understanding and culture through scholarship, research, teaching and community service of international distinction and integrity), to provide an inclusive curriculum that allows all students to learn and progress unhindered through the program, and to produce graduates who:

- Have the basic skills and knowledge (Computer Science/Information Technology, problem solving skills, analytical skills, communication skills and flexibility) necessary for a successful career in Computer Science/Information Technology.
- Are able to apply knowledge of Computer Science fundamentals, including programming, computer and data structures and computer networks.
- Are able to design complex systems involving both hardware, software and networks, using software engineering techniques.
- Have an appreciation of current technologies.
- Have an appreciation of professional conduct and ethical issues in the IT industry.
- Are able to communicate effectively, not only with other computer scientists, but with the community at large on information technology issues.
- Can contribute effectively as members of multi-disciplinary and multi-cultural teams, with the capacity to be leaders or managers as well as effective team members.
- Are able, by self directed study, to remain up to date with developments in their careers/professions.
- Are innovative and creative, adaptable and able to guide developments in their careers/professions.
- Are educated in a broad sense, are well informed and can take their place as leaders in the community.
- Have an appreciation of professional conduct and ethical issues pertinent to the information technology industry.

Bachelor of Mathematical and Computer Sciences – Graduate Attributes

Through the Bachelor of Mathematical & Computer Sciences, the School of Mathematical Sciences supports the mission of the University of Adelaide (to advance knowledge, understanding and culture through scholarship, research, teaching and community service of international distinction and integrity) and to provide an inclusive curriculum that allows all students to learn and progress unhindered through the program.

Graduates in the B. Ma & Comp Sci. majoring in Applied Mathematics, Pure Mathematics or Statistics, possess both an in-depth competence in their major and a general skill set making them highly desirable to potential employees. Our graduates:

- Are able to apply knowledge of basic mathematical or statistical fundamentals.
- Are able to interpret data or mathematical results, and draw correct conclusions.
- Are able to define, formulate and solve a mathematical/statistical problem.
- Possess highly developed problem-solving skills suitable for application in a wide range of situations.
- Possess the flexibility required to adapt quickly to changes in the working environment, including the emergence of new methods, technologies and theories.
- Are able to communicate effectively, not only with other mathematicians and statisticians, but with the community at large on mathematical/statistical issues.
- Can contribute effectively as members of multi-disciplinary and multi-cultural teams, with the capacity to be leaders or managers as well as effective team members.
- Are able, by self directed study, to remain up to date with developments in their careers/professions.
- Are able to guide developments in their careers/professions.

Bachelor of Engineering

Academic Program Rules

1 General

The degree of Bachelor of Engineering may be awarded in the Pass or Honours grade.

The award of the Honours grade shall be made for meritorious performance in the program with greatest weight given to performance in the later years.

The Honours grade may be awarded in one of the following classifications: First Class, Second Class Division A, Second Class Division B.

2 Duration of program

The programs shall occupy four years of full-time study. Details of these programs are set out in 6.5.1- 6.5.11 below.

3 Admission

3.1 Transfers between programs

The Faculty may, subject to such conditions (if any) as it may see fit to impose in each case, permit a student to transfer with status from one Engineering program to another, or from any other program in the University or elsewhere to an Engineering program.

Any student contemplating such transfer should consult the Head of the Engineering School responsible for the program to which the student wishes to transfer and apply for admission to the program through the South Australian Tertiary Admissions Centre in the appropriate manner.

The Faculty has considered Technical and Further Education programs and how they articulate with the Bachelor of Engineering and a scheme of credit transfer from certain TAFE programs has been developed. Following admission to the Bachelor of Engineering program any student wishing to claim status must apply to the Faculty. Students must apply for admission to the program through the South Australian Tertiary Admissions Centre.

4 Enrolment

4.1 Approval of program of study

During the enrolment period before the beginning of each academic year, students who are so directed must obtain the approval of the Dean or nominee of the Faculty of Engineering, Computer and Mathematical Sciences to enrol for the courses they wish to study. The Dean or nominee, in exceptional circumstances, may approve minor variations to the course completion requirements of individual candidates.

4.2 Unless exempted, all international students are required to undertake a specialist course in Engineering Communication ESL. The course provides language development in English as a second language for the purposes of oral and written communication in the context of the study of Engineering. Students normally undertake this course in their first semester at Adelaide and the assessment contributes to the requirements of the degree.

5 Assessment and examinations

(i) A candidate shall not be eligible to attend for examination unless the prescribed work has been completed to the satisfaction of the teaching staff concerned. A candidate who is not eligible to attend for examination shall be deemed to have failed the examination.

(ii) In determining a candidate's final result in a course (or part of a course) the examiners may take into account oral, written, practical and examination work, provided that the candidate has been given adequate notice of the way in which work will be taken into account and of its relative importance in the final result.

(iii) There shall be four classifications of pass at an annual examination in any course for the degree, as follows:

Pass with High Distinction

Pass with Distinction

Pass with Credit

Pass.

If the Pass list be published in two divisions, a Pass in the higher division may be prescribed as a prerequisite for admission to other courses. There shall also be a classification of Conceded Pass. A candidate may present for the degree courses for which a Conceded Pass grade has been awarded within the following limits:

(a) courses at Levels II-IV with an aggregate units value not exceeding 6 units, with no more than 4 units at Level IV *and*

(b) courses at Level I with an aggregate units value not exceeding 4 units.

(iv) A candidate who fails to pass in any course shall again complete the required work in that course to the satisfaction of the teaching staff concerned, unless exempted by the Faculty. Any such exemption shall hold for one academic year only.

(v) (v) A candidate who has twice failed to pass the examination in any course or division of a course may not present again for instruction or examination therein unless the candidate's plan of study is approved by the Dean or nominee. For the purpose of this Rule a candidate who is refused permission to sit for examination in any course or division of a course shall be deemed to have failed to pass the examination.

6 Qualification requirements

6.1 General

(i) A candidate shall regularly attend lectures and do written, laboratory, and other practical work (where such is required), and pass examinations in the courses prescribed for one of the following Engineering programs:

(a) Aerospace Engineering

(b) Automotive Engineering

(c) Chemical Engineering - with the option of specialising in one of:

Energy and Environment

Food, Wine and Biomolecular *or*

Process and Product Engineering

(d) Civil and Environmental Engineering

(e) Civil and Structural Engineering

(f) Computer Systems Engineering

(g) Electrical and Electronic Engineering

(h) Mechanical Engineering

(i) Mechatronic Engineering

(j) Petroleum Engineering

(k) Telecommunications Engineering

(ii) Before being admitted to the degree a candidate shall also submit satisfactory evidence of completion of a period of practical experience in work approved by the Faculty of Engineering, Computer and Mathematical Sciences as appropriate to the program which the candidate has followed.

6.2 Completion of courses

It is not necessary for a candidate to take all the courses of any one level simultaneously or to complete all the courses set out for one level before enrolling for any course of the following level provided that the prerequisite courses have been passed. However a candidate who desires to take a Level III course before completing all Level I courses, or a Level IV course before completing all Level II courses, must obtain the permission of the Faculty.

The academic progress of any candidate may be reviewed in certain circumstances. Details are available from the Engineering Student Office.

Notes

1. A candidate who obtains a Pass Division II in MATHS 1012 Mathematics IB may fulfil the prerequisite requirements for the Level II Applied Mathematics courses by obtaining a Pass Division I in MATHS 2004 Mathematics IIM. With the approval of the Dean or nominee, students may be permitted to enrol concurrently in Mathematics IIM and Level II Applied Mathematics courses. Note that Mathematics IIM is additional to the other requirements for the engineering degree.

6.3 Practical experience

(i) General

For all engineering programs, a total of twelve weeks' practical experience (of which a minimum 6 weeks should be under the supervision of a professional engineer) is required and this should be undertaken during the University vacations and normally completed before beginning the work of Level IV of the program.

The Faculty may grant either partial or total exemption from these requirements to a candidate who produces satisfactory evidence of practical experience obtained before their first enrolment in the Faculty; and in special cases, the Faculty may grant dispensation from the requirements.

Credit will not normally be given for periods of less than three consecutive weeks.

A candidate should seek a variety of practical experience appropriate to the candidate's academic level.

Before beginning a period of practical experience, a candidate may ensure that it will be satisfactory to the Faculty by consulting the Head of the School concerned.

Upon completion of each period of practical experience, a candidate is required to submit to the Faculty Student Office, on the prescribed form, a statement of practical experience gained, certified by the employer for approval by the Faculty of Engineering, Computer and Mathematical Sciences.

(ii) Chemical Engineering

It is desirable that at least half of the total number of weeks specified in clause (i) be spent in an approved chemical factory or research establishment on plant operation or industrial research or development.

(iii) Aerospace, Mechanical and Mechatronic Engineering

Candidates must complete Workshop Practice, which will normally occupy a one-week period during a semester break. On satisfactory completion of this component of the course MECH ENG 2018 Design Practice, candidates will be automatically credited with one-week engineering experience towards the 12 week work experience requirement.

6.4 Combined programs

It is possible for students to enhance their engineering qualification by combining studies in Engineering with studies in other schools or faculties. The current options are:

6.4.1 Bachelor of Engineering and Bachelor of Laws - B.E./LL.B

It is possible for students in the Chemical, Civil and Environmental, Civil and structural, Computer Systems, Electrical & Electronic, Mechanical, and Telecommunications Engineering programs to elect to complete both the Bachelor of Engineering and Bachelor of Laws degrees in a total of six and a half years of full-time study by taking some overload, provided they are accepted into the LL.B program. Students wishing to pursue this program of study may apply for admission through the South Australian Tertiary Admissions Centre by September of the year before they commence university study or in a later year of the program.

For further details, see the Notes entitled Law studies within the B.E. program under Sections 6.5.2 – 6.5.8 of these Academic Program Rules.

6.4.2 Bachelor of Engineering and Bachelor of Science - B.E./B.Sc.

6.4.2.1 Direct Entry

(i) Students may enrol directly in a program of study leading, after five years of full-time study (or the part time equivalent thereof), to the award of both the degree of Bachelor of Engineering and the degree of Bachelor of Science in the Faculty of Sciences. The following options are available:

B.E. (Aerospace)/B.Sc.

B.E. (Chemical)/B.Sc.

B.E. (Civil and Environmental)/B.Sc.

B.E. (Civil and Structural)/B.Sc.

B.E. (Mechanical)/B.Sc.

(ii) Students enrolled in one of these programs are required to complete satisfactorily the Level I courses specified for each Engineering program in (iii) to (vii) below, together with the Engineering and Science components described in (viii) to (ix).

(iii) Aerospace Engineering

The following shall be the courses of study at Level I

Science courses to the value of 18 units as follows:

CHEM 1100 Chemistry IA	3
and	
CHEM 1200 Chemistry IB	3
PHYSICS 1100 Physics IA	3
and	
PHYSICS 1200 Physics IB	3
either	
MATHS 1011 Mathematics IA *	3
or	
MATHS 1013 Mathematics IMA *	3
and either	
MATHS 1012 Mathematics IB *	3
or	
MATHS 1014 Mathematics IMB *	3

Engineering courses to the value of 8 units as follows:

C&ENVENG 1001 Statics	2
CHEM ENG 1002 Engineering Computing I	2
CHEM ENG 1003 Materials I	2
MECH ENG 1000 Dynamics	2

(iv) Chemical Engineering

The following shall be the courses of study at Level I

Science courses to the value of 18 units chosen from the following:

CHEM 1100 Chemistry IA	3
and	
CHEM 1200 Chemistry IB	3
either	
BIOLOGY 1101 Biology I: Molecules, Genes and Cells A **	3
or	
BIOLOGY 1102 Biology I: Molecules, Genes and Cells B **	3
and either	
BIOLOGY 1202 Biology I: Organisms	3
or	
BIOLOGY 1201 Biology I: Human Perspectives	3
or	
PHYSICS 1100 Physics IA	3
and	
PHYSICS 1200 Physics IB	3

or

GEOLOGY 1100 Earth's Interior I 3

and

GEOLOGY 1200 Earth's Environment I 3

and either

MATHS 1011 Mathematics IA * 3

or

MATHS 1013 Mathematics IMA *

and either

MATHS 1012 Mathematics IB * 3

or

MATHS 1014 Mathematics IMB * 3

Engineering courses to the value of 6 units as follows:

CHEM ENG 1002 Engineering Computing I 2

CHEM ENG 1003 Materials I 2

CHEM ENG 1005 Process Heat Transfer 2

(v) Civil and Environmental Engineering

The following shall be the courses of study at Level I

Science courses to the value of 18 units chosen from the following:

CHEM 1100 Chemistry IA 3

and

CHEM 1200 Chemistry IB 3

either

BIOLOGY 1101 Biology I:
Molecules, Genes and Cells A ** 3

or

BIOLOGY 1102 Biology I:
Molecules, Genes and Cells B ** 3

and

BIOLOGY 1202 Biology I: Organisms 3

or

PHYSICS 1100 Physics IA 3

and

PHYSICS 1200 Physics IB 3

or

GEOLOGY 1100 Earth's Interior I 3

and

GEOLOGY 1200 Earth's Environment I 3

and either

MATHS 1011 Mathematics IA * 3

or

MATHS 1013 Mathematics IMA * 3

and either

MATHS 1012 Mathematics IB * 3

or

MATHS 1014 Mathematics IMB * 3

Engineering courses to the value of 8 units as follows:

C&ENVENG 1000 Engineering Planning and Design 2

C&ENVENG 1001 Statics 2

C&ENVENG 1002 Civil & Environmental Engineering I 2

C&ENVENG 1003 Engineering Modelling and Analysis I 2

(vi) Civil and Structural Engineering

The following shall be the courses of study at Level I

Science courses to the value of 18 units chosen from the following:

CHEM 1100 Chemistry IA 3

and

CHEM 1200 Chemistry IB 3

either

BIOLOGY 1101 Biology I:
Molecules, Genes and Cells A ** 3

or

BIOLOGY 1102 Biology I:
Molecules, Genes and Cells B ** 3

and

BIOLOGY 1202 Biology I: Organisms 3

or

PHYSICS 1100 Physics IA 3

and

PHYSICS 1200 Physics IB 3

or

GEOLOGY 1100 Earth's Interior I 3

and

GEOLOGY 1200 Earth's Environment I 3

and either

MATHS 1011 Mathematics IA * 3

or

MATHS 1013 Mathematics IMA * 3

and either

MATHS 1012 Mathematics IB * 3

or

MATHS 1014 Mathematics IMB * 3

Engineering courses to the value of 8 units as follows:

C&ENVENG 1000 Engineering Planning and Design 2

C&ENVENG 1001 Statics 2

C&ENVENG 1002 Civil & Environmental Engineering 1 2

C&ENVENG 1003 Engineering Modelling and Analysis I 2

(vii) Mechanical Engineering

The following shall be the courses of study at Level I

Science courses to the value of 18 units as follows

CHEM 1100 Chemistry IA 3

and

CHEM 1200 Chemistry IB 3

PHYSICS 1100 Physics IA 3

and

PHYSICS 1200 Physics IB 3

MATHS 1011 Mathematics IA * 3

or

MATHS 1013 Mathematics IMA * 3

and

MATHS 1012 Mathematics IB * 3

or

MATHS 1014 Mathematics IMB * 3

Engineering courses to the value of 8 units as follows:

C&ENVENG 1001 Statics 2

CHEM ENG 1002 Engineering Computing I 2

CHEM ENG 1003 Materials I 2

MECH ENG 1000 Dynamics 2

* Students who have not taken SACE Stage 2 Specialist Maths will be required to take MATHS 1013/1014 Mathematics IMA/B in lieu of MATHS 1011/1012 Mathematics IA/B. Such students must also take the Level II course MATHS 2004 Mathematics IIM. The satisfactory completion of Mathematics IIM is in addition to the normal requirements of the B.E. plan.

** Students who have not taken SACE Stage 2 Biology will be required to take Biology I: Molecules, Genes and Cells A in lieu of Biology I: Molecules, Genes and Cells B

(viii) Engineering Component

To qualify for the award of the degree of B.E., students must complete satisfactorily the normal requirements for the degree at Level II, III and IV, as defined elsewhere in these Academic Program Rules, subject to such exemptions as shall be approved from time to time on the recommendation of the Faculty. For details of the requirements of individual programs, see the Notes under Sections 6.5.1, 6.5.3-5, 6.5.8 of these Academic Program Rules.

(ix) Students required to take MATHS 1013/1014 Mathematics IMA/B at Level I will be required to complete satisfactorily MATHS 2004 Mathematics IIM at Level II, in addition to the normal requirements of the B.E. plan.

(x) Science Component

To qualify for the award of the degree of B.Sc., students must complete satisfactorily courses listed in Academic Program Rule 5.6 of the Rules for the degree of Bachelor of Science in the Faculty of Sciences to a minimum units value of 50, as follows:

(a) Level I courses to the value of not less than 18 units chosen from courses specified in one of (iii) to (vii) above

(b) Level II courses to the value of not less than 8 units, being prerequisites for courses at Level III

(c) Level III courses to the value of not less than 24 units

(d) Courses comprising a major in a science discipline, as defined in the Academic Program Rules for the degree of B.Sc. in the Faculty of Sciences.

(xi) Students may need to take a course overload to complete the two degrees in five years, depending on the particular program of science courses studied.

(xii) Students who commence this program but who subsequently decide that they do not wish to proceed with both areas of study may, provided that they have completed satisfactorily at least the Level I courses listed in one of (iii) to (vii) above, transfer to enrolment in a program for the degree of B.E. or the degree of B.Sc. in the Faculty of Sciences, with appropriate credit for courses completed.

6.4.2.2 Direct Entry B.E.(Elec.)/B.Sc.(Physics)

(i) Students may enrol directly in a program of study leading, after five years of full-time study (or the part-time equivalent) to the combined award of the degrees of Bachelor of Engineering (Electrical and Electronic) and Bachelor of Science (Physics).

To qualify for the combined award, students are required to complete satisfactorily the courses specified in the notes under Section 6.5.7 of these Academic Program Rules, which must include at least 12 units of Physics courses and a major in Physics or a major in Theoretical Physics as specified in Academic Program Rule 5.4 for the B.Sc.

(ii) Students who have not taken SACE Stage 2 Specialist Maths will be required to take MATHS 1013/1014 Mathematics IMA/B in lieu of MATHS 1011/1012 Mathematics IA/B. Such students must also take the Level II course MATHS 2004 Mathematics IIM. The satisfactory completion of Mathematics IIM is in addition to the normal requirements of the B.E. plan.

(iii) Students who commence this program but who subsequently decide they do not wish to proceed with both areas of study may transfer to enrolment in the program for the B.E.(Elec) or the B.Sc. with appropriate credit for the courses completed.

6.4.2.3 Direct Entry B.E.(Chem)/B.Sc.(Biotech)

(i) Students may enrol directly in a program of study leading, after five years of full-time study (or the part-time equivalent) to the award of both the degrees of Bachelor of Engineering (Chemical) and Bachelor of Science (Biotechnology).

To qualify for the award of both degrees, students are required to complete satisfactorily the courses specified in the notes under Section 6.5.3 of these Academic Program Rules.

(ii) Students who have not taken SACE Stage 2 Specialist Mathematics will be required to take MATHS 1013/1014 Mathematics IMA/B in lieu of MATHS 1011/1012 Mathematics IA/B. Such students must also take the Level II course MATHS 2004 Mathematics IIM. Satisfactory completion of Mathematics IIM is in addition to the normal requirement of the B.E. plan.

(iii) Students who commence this program but who subsequently decide they do not wish to proceed with both areas of study may transfer to enrolment in the program for the B.E.(Chem) or the B.Sc(Biotech) with appropriate credit for the courses completed.

6.4.2.4 Direct Entry B.E.(Petroleum)/B.Sc (in either Geology and Geophysics, or Physics)

(i) Students may enrol directly in a program of study leading, after five years of full-time study (or the part-time equivalent) to the combined award of the degrees of:

Bachelor of Engineering (Petroleum) and Bachelor of Science (Geology and Geophysics) or

Bachelor of Engineering (Petroleum) and Bachelor of Science (Physics).

To qualify for the combined award, students are required to complete satisfactorily the courses specified in the notes under Section 6.5.10 of these Academic Program Rules.

(ii) Students who have not taken SACE Stage 2 Specialist Mathematics will be required to take MATHS 1013/1014 Mathematics IMA/B in lieu of MATHS 1011/1012 Mathematics IA/B. Such students must also take the Level II course MATHS 2004 Mathematics IIM. Satisfactory completion of Mathematics IIM is in addition to the normal requirement of the B.E. plan.

(iii) Students who commence this program but who subsequently decide they do not wish to proceed with both areas of study may transfer to enrolment in the program for the B.E.(Petroleum) or the B.Sc with appropriate credit for the courses completed.

6.4.3 Bachelor of Engineering and Bachelor of Mathematical and Computer Sciences - B.E./B.Ma.& Comp.Sc.

6.4.3.1 Direct Entry

(i) Students may enrol directly in a program of study leading, after five years of full-time study (or the part time equivalent thereof), to the award of both the degree of Bachelor of Engineering and the degree of Bachelor of Mathematical and Computer Sciences. The following options are available:

B.E.(Aerospace)/B.Ma. & Comp.Sc.

B.E.(Chemical)/B.Ma. & Comp.Sc.

B.E.(Civil & Environmental)/B.Ma. & Comp.Sc..

B.E.(Civil & Structural)/B.Ma. & Comp.Sc..

B.E.(Computer Systems)/B.Ma. & Comp.Sc.

B.E.(Electrical & Electronic)/B.Ma. & Comp.Sc.

B.E.(Mechanical)/B.Ma. & Comp.Sc.

B.E.(Mechatronic)/B.Ma. & Comp.Sc.

B.E.(Telecomm.)/B.Ma. & Comp.Sc.

(ii) Students enrolled in one of these programs are required to complete satisfactorily the courses specified for each Engineering program together with the Mathematical and Computer Sciences component as described in (iii) to (v) below.

(iii) Engineering Component

To qualify for the award of the degree of B.E. students must satisfactorily complete courses as described in the Academic Program Rules for the relevant degree of Bachelor of Engineering.

(iv) Students who have not taken SACE Stage 2 Specialist Maths will be required to take MATHS 1013/1014 Mathematics IMA/B in lieu of MATHS 1011/1012 Mathematics IA/B. Such students must also take the Level II course MATHS 2004 Mathematics IIM. The satisfactory completion of Mathematics IIM is in addition to the normal requirements of the B.E. plan.

(v) Mathematical and Computer Sciences Component

To qualify for the award of the degree of B.Ma. & Comp.Sc. students must satisfactorily complete an additional 24* units at Levels II and III which satisfy all of the following criteria:

(a) Level III courses to the value of at least 20 units

(b) Level II and III Mathematical and Computer Sciences courses to the value of at least 22.5* units as listed in 4.2.2.1. and 4.2.3.1. for the degree of B.Ma.& Comp.Sc.

Note (not forming part of the Academic Program Rules)
* The exact number of units required will depend on which Mathematics options are selected within the student's Engineering degree.

(vi) Students may need to take a course overload to complete the two degrees in five years, depending on the particular Level III courses they wish to present towards their B.Ma.& Comp.Sc. degree.

Note: Students wishing to undertake a major in Computer Science for their B.Ma.& Comp.Sc. should discuss their program with a Course Adviser.

(vii) Students who commence this program but who subsequently decide that they do not wish to proceed with both areas of study may transfer to enrolment in a program for the degree of B.E. or the degree of B.Ma.& Comp.Sc., with appropriate credit for courses completed.

6.4.3.2 Later Year Entry

(i) Students enrolled in the Computer Systems Engineering or Electrical and Electronic Engineering programs may intermit their Engineering studies for a year to undertake additional studies in Mathematical and Computer Sciences in order to qualify for the degree of B.Ma.& Comp.Sc. For further details (including application procedures), see the Notes under Section 6.5.6 Computer Systems Engineering and 6.5.7 Electrical and Electronic Engineering.

(ii) Students enrolled in the Chemical Engineering, Civil and Environmental Engineering, Civil and Structural Engineering or Mechanical Engineering programs may alternatively combine their Engineering studies with additional studies in Mathematical and Computer Sciences in order to qualify for the degree of B.Ma.& Comp.Sc. Application for admission to Mathematical and Computer Sciences must be made through the South Australian Tertiary Admissions Centre and would normally be made on completion of Level II of the Engineering program.

6.4.4 Bachelor of Engineering and Bachelor of Arts - B.E./B.A.

(i) There is a series of programs administered by the Faculty of Engineering, Computer and Mathematical Sciences and leading to the combined award of the degrees of Bachelor of Engineering and Bachelor of Arts. The combined award is available in Aerospace, Chemical, Civil and Environmental, Civil and Structural, Electrical and Electronic, Computer Systems, Information Technology and Telecommunications, Mechanical and Mechatronic Engineering. Students may qualify for the combined award after five years of full-time study in which the requirements of the degrees of B.E. and B.A. have been merged. In some cases, students may need to take an overload to complete the program in five years.

(ii) Students who commence this program but who subsequently decide that they do not wish to proceed with both areas of study may transfer to enrolment in a program for the B.E. or the B.A., with appropriate credit for courses completed.

(iii) Students may transfer into the combined program after partially completing the requirements of either the B.E. or the B.A. degree. This may, however, affect the total time taken to complete the combined program. Such students should consult the Dean, or nominee, to discuss their proposed program of studies.

(iv) Status

Status in the combined program, in respect of studies previously completed at the University of Adelaide or another approved institution, may be granted on application to the Faculty, provided that, in the case of studies completed other than at the University of Adelaide, status in Humanities and Social Sciences courses will normally only be granted in respect of studies valued at a maximum of 6 units, and normally not including studies in the major course at Level II or III.

(v) Program of Studies

The generic requirements of the B.E./B.A. program are given below. The details of a particular student's program will depend upon the Engineering specialisation and the Humanities and Social Sciences courses chosen. The order in which courses are taken will need to take into consideration any prerequisite requirements and candidates will need to discuss their program of studies with both Engineering and Humanities and Social Sciences Course Advisers.

To qualify for the combined award, candidates are required to complete satisfactorily:

(a) Engineering Component

The Engineering component comprises all the requirements of the related Bachelor of Engineering program except where credit is given for Humanities and Social Sciences courses. For details of the requirement of individual programs, see the Notes under Sections 6.5.1 - 6.5.9 of these Academic Program Rules.

Students who have not taken SACE Stage 2 Specialist Maths will be required to take MATHS 1013/1014 Mathematics IMA/B in lieu of MATHS 1011/1012 Mathematics IA/B. Such students must also take the Level II course MATHS 2004 Mathematics IIM. The satisfactory completion of Mathematics IIM is in addition to the normal requirements of the B.E. plan.

(b) Arts Component

The Arts component comprises a minimum of 32 units of courses offered by the Faculty of Humanities and Social Sciences as listed in Sections 6.12.1, 6.12..2 and 6.12..3 of the Academic Program Rules for the

degree of Bachelor of Arts, including an approved major sequence.

The major sequence should comprise:

8 units at Level II (one full-year course or two semester courses)

12 units at Level III(one full-year course or two semester courses)

in an approved discipline offered by the Faculty of Humanities and Social Sciences.

The remaining 12 units should be selected from any discipline or disciplines offered by the Faculty of Humanities and Social Sciences.

(vi) Honours

In the Engineering component, Honours are awarded for meritorious performance in the program (taken over the Engineering courses only). In the Arts component, the award of Honours requires one further year of study devoted exclusively to the Honours program. Students wishing to gain a degree at Honours level in Arts should consult the Faculty of Humanities and Social Sciences for further details.

6.4.5 Bachelor of Engineering and Bachelor of Economics - B.E./B.Ec.

(i) Students may enrol directly in a program of study leading, after five years of full-time study (or the part-time equivalent), to the award of both the degree of Bachelor of Engineering and the degree of Bachelor of Economics. The following options are available:

B.E.(Aerospace)/B.Ec.

B.E.(Chemical)/B.Ec.

B.E.(Civil and Environmental)/B.Ec.

B.E.(Civil and Structural)/B.Ec.

B.E.(Computer Systems)/B.Ec.

B.E.(Electrical & Electronic)/B.Ec.

B.E.(Mechanical)/B.Ec.

B.E.(Mechatronic)/B.Ec.

B.E.(Telecomm.)/B.Ec.

(ii) Students enrolled in one of these programs are required to complete satisfactorily the courses specified in the Notes under Sections 6.5.1, 6.5.3 - 6.5.9, 6.5.11 of these Academic Program Rules.

(iii) Students who have not taken SACE Stage 2 Specialist Maths will be required to take MATHS 1013/1014 Mathematics IMA/B in lieu of MATHS 1011/1012 Mathematics IA/B. Such students must also take the Level II course MATHS 2004 Mathematics IIM. The satisfactory completion of Mathematics IIM is in addition to the normal requirements of the B.E. plan.

(iv) Students who commence this program but who subsequently decide they do not wish to proceed with both areas of study may transfer to enrolment in the program for the B.E. or the B.Ec. with appropriate credit for the courses completed.

6.4.6 Bachelor of Engineering and Bachelor of Finance - B.E./B.Fin.

(i) Students may enrol directly in a program of study leading, after five years of full-time study (or the part-time equivalent), to the award of both the degree of Bachelor of Engineering and the degree of Bachelor of Finance. The following options are available:

B.E.(Chemical)/B.Fin.

B.E.(Civil and Environmental)/B.Fin.

B.E.(Civil and Structural)/B.Ec.

B.E.(Computer Systems)/B.Fin.

B.E.(Electrical & Electronic)/B.Fin.

B.E.(Mechanical)/B.Fin.

B.E.(Telecomm.)/B.Fin..

(ii) Students enrolled in one of these programs are required to complete satisfactorily the courses specified in the notes under Sections 6.5.3 - 6.5.8, 6.5.11 of these Academic Program Rules.

(iii) Students who have not taken SACE Stage 2 Specialist Maths will be required to take MATHS 1013/1014 Mathematics IMA/B in lieu of MATHS 1011/1012 Mathematics IA/B. Such students must also take the Level II course MATHS 2004 Mathematics IIM. The satisfactory completion of Mathematics IIM is in addition to the normal requirements of the B.E. plan.

(iv) Students who commence this program but who subsequently decide they do not wish to proceed with both areas of study may transfer to enrolment in the program for the B.E. or the B.Fin. with appropriate credit for the courses completed.

6.4.7. Combined Engineering Degrees

The following options are available:

B.E.(Civil and Structural)/B.E.(Civil and Environmental)

B.E.(Petroleum)/B.E.(Chemical)

B.E.(Petroleum)/B.E.(Civil and Environmental)

B.E.(Petroleum)/B.E.(Civil and Structural)

B.B.E.(Petroleum)/B.E.(Mechanical)

(i) Students may enrol directly in a program of study leading, after five years of full-time study (or the part-time equivalent) to the combined award of the degrees.

To qualify for one of the combined awards, students are required to complete satisfactorily the courses specified in the notes under Section 6.5.5 or 6.5.10 of these Academic Program Rules.

(ii) Students who have not taken SACE Stage 2 Specialist Mathematics will be required to take MATHS 1013/1014 Mathematics IMA/B in lieu of MATHS 1011/1012 Mathematics IA/B. Such students must also take the Level II course MATHS 2004 Mathematics IIM. Satisfactory completion of Mathematics IIM is in addition to the normal requirement of the B.E. program.

(iii) Students who commence this program but who subsequently decide they do not wish to proceed with both areas of study may transfer to enrolment in the program for one of the single BE degrees with appropriate credit for the courses completed

6.5 Academic programs

6.5.1 Aerospace Engineering

Candidates are required to complete satisfactorily courses to the value of 24 units at each of Levels I, II, III and IV:

Level I

C&ENVENG 1001 Statics	2
CHEM ENG 1002 Engineering Computing I	2
CHEM ENG 1003 Materials I	2
ELEC ENG 1008 Electrical Engineering IM	2
MATHS 1011 Mathematics IA	3
MATHS 1012 Mathematics IB	3
MECH ENG 1000 Dynamics	2
MECH ENG 1001 Design Graphics	2
MECH ENG 1005 Engineering Planning, Design and Communication M	3
PHYSICS 1003 Physics IHE	3

Level II

APP MTH 2000 Differential Equations and Fourier Series	2
APP MTH 2002 Vector Analysis and Complex Analysis	2
APP MTH 2009 Numerical Analysis and Probability and Statistics	2
MECH ENG 2002 Stress Analysis and Design	3
MECH ENG 2011 Mechatronics IM	2
MECH ENG 2018 Design Practice	4
MECH ENG 2019 Dynamics and Control I	3
MECH ENG 2020 Materials and Manufacturing	3
MECH ENG 2021 Thermo-Fluids I	3

Level III

MECH ENG 3006 Engineering Communication ESL (M) *	2
MECH ENG 3016 Aeronautical Engineering I	2
MECH ENG 3017 Engineering and the Environment	2
MECH ENG 3020 Heat Transfer	2
MECH ENG 3025 Space Vehicle Design	2
MECH ENG 3026 Aerospace Materials and Structures	3
MECH ENG 3027 Design and Communication	3
MECH ENG 3028 Dynamics and Control II	3
MECH ENG 3031 Thermo-Fluids II	3
PHYSICS 2010 Space Science and Astrophysics II	4

* Available only to students whose native language is not English; may be presented in lieu of an elective at Level IV

Level IV

MECH ENG 4034 Aerospace Navigation and Guidance	2
MECH ENG 4035A/B Aerospace Honours Project Level IV # *or*	8
MECH ENG 4051A/B Aerospace Design Project Level IV #	8
MECH ENG 4036 Aerospace Propulsion I	2
MECH ENG 4038 Engineering Management & Professional Practice	2
PHYSICS 3023 Space Science and Astrophysics III	2
Elective courses to the value of at least 8 units	8

Electives

Electives to the value of 8 units to be selected from the following list. With the approval of the Head of the School of Mechanical Engineering, courses offered by other schools within the University may be included in the selection of electives. Of the four electives chosen, three must be those offered by the School of Mechanical Engineering.

APP MTH 4003 Aerodynamics **	2
APP MTH 4007 Computational Fluid Dynamics (Engineering) **	2
APP MTH 4043 Transform Methods and Signal Processing **	2
MECH ENG 4000 Fundamentals in Non-Linear Computation Mechanics	2
MECH ENG 4002 Combustion Technology and Emissions Control	2
MECH ENG 4003 Fracture Mechanics	2
MECH ENG 4004 Engineering Acoustics	2
MECH ENG 4011 Advanced Automatic Control	2

MECH ENG 4013 Air Conditioning	2
MECH ENG 4020 Advanced Vibrations	2
MECH ENG 4023 Advanced Topics in Fluid Mechanics	2
MECH ENG 4025 Topics in Welded Structures	2
MECH ENG 4026 Environmental and Architectural Acoustics	2
MECH ENG 4027 Robotics M	2
MECH ENG 4037 Aerospace Propulsion II	2
MECH ENG 4039 Finance for Engineers	2
MECH ENG 4040 Hypersonic Flow	2
MECH ENG 4046 Computation Technique for Engineering Applications	2
MECH ENG 4052 Introduction to Biomechanics	2
PHYSICS 3021 Space Plasma Physics **	2

* Not all electives are offered each year.

** Not offered by the School of Mechanical Engineering

Students accepted into the Honours stream will take Aerospace Honours Project Level IV and other students will take Aerospace Design Project Level IV.

Notes

1 Program of study for the direct entry B.E (Aerospace)/B.A program (see also Section 6.4.4 of these Rules)

To qualify for the award of the degrees of BE(Aerospace) and BA candidates are required to complete satisfactorily:

First Year (25 units)

C&ENVENG 1001 Statics	2
CHEM ENG 1002 Engineering Computing I	2
CHEM ENG 1003 Materials I	2
ELEC ENG 1008 Electrical Engineering IM	2
MECH ENG 1000 Dynamics	2
PHYSICS 1003 Physics IHE	3
either	
MATHS 1011 Mathematics IA *	3
or	
MATHS 1013 Mathematics IMA *	3
and	
MATHS 1012 Mathematics IB*	3
or	
MATHS 1014 Mathematics IMB *	3
Level I Arts course(s) to the value of 6 units	6

* Students who have not taken SACE Stage 2 Specialist Maths will be required to take MATHS 1013/1014 Mathematics IMA/B in lieu of MATHS 1011/1012 Mathematics IA/B. Such students must also take the Level II course MATHS 2004 Mathematics IIM. The satisfactory completion of Mathematics IIM is in addition to the normal requirements of the B.E. Plan.

Second Year (26 units)

APP MTH 2000 Differential Equations and Fourier Series	2
APP MTH 2002 Vector Analysis and Complex Analysis	2
APP MTH 2009 Numerical Analysis and Probability and Statistics	2
MECH ENG 1001 Design Graphics	2
MECH ENG 2002 Stress Analysis and Design	3
MECH ENG 2018 Design Practice	4
MECH ENG 2021 Thermo-Fluids I	3
Level II Arts course(s) to the value of 8 units	8

Third Year (24 units)

MECH ENG 2019 Dynamics and Control I	3
MECH ENG 2020 Materials and Manufacturing	3
MECH ENG 3025 Space Vehicle Design	2
PHYSICS 2010 Space Science and Astrophysics II	4
Level III Arts course(s) to the value of 12 units	12

Fourth Year (26 units)

MECH ENG 2011 Mechatronics IM	2
MECH ENG 3016 Aeronautical Engineering I	2
MECH ENG 3017 Engineering and Environment	2
MECH ENG 3020 Heat Transfer	2
MECH ENG 3026 Aerospace Materials and Structures	3
MECH ENG 3027 Design and Communication	3
MECH ENG 3028 Dynamics and Control II	3
MECH ENG 3031 Thermo-Fluids 2	3
Level I Arts course(s) to the value of 6 units	6

Fifth Year (24 units)

MECH ENG 4034 Aerospace Navigation and Guidance	2
MECH ENG 4036 Aerospace Propulsion I	2
MECH ENG 4038 Engineering Management & Professional Practice	2
either	
MECH ENG 4035A/B Aerospace Honours Project Level IV #	8
or	
MECH ENG 4051A/B Aerospace Design Project Level IV	8
PHYSICS 3023 Space Science and Astrophysics III	2
Engineering Elective courses to the value of at least 8 units	8

Students accepted into the Honours stream will take Aerospace Honours Project Level IV and other students will take Aerospace Design Project Level IV.

2 Program of study for the direct entry B.E (Aerospace)/ B.Ec. program

To qualify for both the award of the degree of BE (Aerospace) and the degree of B.Ec, candidates are required to complete satisfactorily:

First Year (24 units)

C&ENVENG 1001 Statics	2
CHEM ENG 1002 Engineering Computing I	2
CHEM ENG 1003 Materials I	2
ECON 1004 Principles of Microeconomics I	3
ELEC ENG 1008 Electrical Engineering IM	2
MECH ENG 1000 Dynamics	2
MECH ENG 1001 Design Graphics	2
PHYSICS 1003 Physics IHE	3
either	
MATHS 1011 Mathematics IA *	3
or	
MATHS 1013 Mathematics IMA *	3
and	
MATHS 1012 Mathematics IB *	3
or	
MATHS 1014 Mathematics IMB *	3

* Students who have not taken SACE Stage 2 Specialist Maths will be required to take MATHS 1013/1014 Mathematics IMA/B in lieu of MATHS 1011/1012 Mathematics IA/B. Such students must also take the Level II course MATHS 2004 Mathematics IIM. The satisfactory completion of Mathematics IIM is in addition to the normal requirements of the B.E. plan.

Note: the B.Ec. degree requirement that students take ECON 1008 Business Data Analysis I (3 units) will be considered satisfied by students taking CHEM ENG 1002 Engineering Computing I at Level I and APP MTH 2009 Numerical Analysis and Probability and Statistics at Level II.

Second Year (24 units)

APP MTH2000 Differential Equations and Fourier Series	2
APP MTH2002 Vector Analysis and Complex Analysis	2
APP MTH2009 Numerical Analysis and Probability and Statistics	2
ECON 1000 Principles of Macroeconomics I	3
MECH ENG 2002 Stress Analysis and Design	3
MECH ENG 2011 Mechatronics IM	2
MECH ENG 2018 Design Practice	4
MECH ENG 2019 Dynamics and Control I	3
MECH ENG 2021 Thermo-Fluids I	3

Third Year (27 units)

ECON 2009 Consumers, Firms and Markets II	4
ECON 2011 Macroeconomic Theory and Policy II	4
MECH ENG 2020 Materials and Manufacturing	3
MECH ENG 3026 Aerospace Materials and Structures	3
MECH ENG 3027 Design and Communication	3
MECH ENG 3028 Dynamics and Control II	3
MECH ENG 3031 Thermo-Fluids 2	3
PHYSICS 2010 Space Science and Astrophysics II	4

Fourth Year (26 units)

COMMGMT 2007 Organisational Behaviour II	4
ECON 2006 Economic and Financial Data Analysis II	4
MECH ENG 3016 Aeronautical Engineering I	2
Plus at least 16 units of Level III Economics courses chosen from those listed in the Academic Program Rules of the degree of Bachelor of Economics	16

Note: B.Ec. students currently must take an Economic History course to qualify for the B.Ec. degree. Please refer to the Academic Program Rules of the B.Ec. degree.

Fifth Year (24 units)

MECH ENG 3017 Engineering and the Environment	2
MECH ENG 3020 Heat Transfer	2
MECH ENG 3025 Space Vehicle Design	2
MECH ENG 4034 Aerospace Navigation and Guidance	2
MECH ENG 4036 Aerospace Propulsion I	2
MECH ENG 4038 Engineering Management and Professional Practice	2
MECH ENG 4035A/B Aerospace Honours Project Level IV#	8
or	
MECH ENG 4051A/B Aerospace Design Project Level IV	8
PHYSICS 3023 Space Science and Astrophysics III	2
Elective courses to the value of at least 2 units	2

Students accepted into the Honours stream will take Aerospace Honours Project Level IV and other students will take Aerospace Design Project Level IV.

3 Direct Entry B.E.(Aerospace)/B.Ma. & Comp.Sc.

Refer to Academic Program Rule 6.4.3 for the requirements of this program. Note: the program of studies will vary depending on whether students wish to Major in Mathematics or in Computer Science for the B.Ma. & Comp. Sc.

4 Program of study for the direct entry B.E (Aerospace)/ B.Sc.

To qualify for both the award of the degree of B.E.(Aerospace) and the degree of B.Sc, candidates are required to complete satisfactorily:

First Year (26 units)

C&ENVENG 1001 Statics	2
CHEM 1100 Chemistry IA	3
CHEM 1200 Chemistry IB	3
CHEM ENG 1002 Engineering Computing I	2
CHEM ENG 1003 Materials I	2
MECH ENG 1000 Dynamics	2
PHYSICS 1100 Physics IA	3
PHYSICS 1200 Physics IB	3

either	
MATHS 1011 Mathematics IA *	3
or	
MATHS 1013 Mathematics IMA *	3
and either	
MATHS 1012 Mathematics IB *	3
or	
MATHS 1014 Mathematics IMB *	3

* Students who have not taken SACE Stage 2 Specialist Maths will be required to take MATHS 1013/1014 Mathematics IMA/B in lieu of MATHS 1011/1012 Mathematics IA/B. Such students must also take the Level II course MATHS 2004 Mathematics IIM. The satisfactory completion of MATHS 2004 Mathematics IIM is in addition to the normal requirements of the B.E. plan.

Second Year (24 units)	
APP MTH2000 Differential Equations and Fourier Series	2
APP MTH2002 Vector Analysis and Complex Analysis	2
APP MTH2009 Numerical Analysis and Probability and Statistics	2
MECH ENG 1001 Design Graphics	2
MECH ENG 2002 Stress Analysis and Design	3
MECH ENG 2018 Design Practice	4
MECH ENG 2019 Dynamics and Control I	3
MECH ENG 2020 Materials and Manufacturing	3
MECH ENG 2021 Thermo-Fluids I	3
Third Year (26 units)	
MECH ENG 3025 Space Vehicle Design	2
MECH ENG 3026 Aerospace Materials and Structures	3
MECH ENG 3027 Design and Communication	3
MECH ENG 3028 Dynamics and Control 2	3
MECH ENG 3031 Thermo-Fluids II	3
PHYSICS 2010 Space Science and Astrophysics II	4
PHYSICS 2100 Physics IIA	4
PHYSICS 2200 Physics IIB	4
Fourth Year (24 units)	
MECH ENG 2011 Mechatronics IM	2
MECH ENG 3016 Aeronautical Engineering I	2
MECH ENG 3017 Engineering and the Environment	2
MECH ENG 3020 Heat Transfer	2
Level III Physics/Science courses	20
Fifth Year (24 units)	
MECH ENG 4034 Aerospace Navigation and Guidance	2
MECH ENG 4036 Aerospace Propulsion I	2
MECH ENG 4038 Engineering Management and Professional Practice	2
either	
MECH ENG 4035A/B Aerospace Honours Project Level IV#	8
or	
MECH ENG 4051A/B Aerospace Design Project Level IV	8
PHYSICS 3014 Atmospheric and Environmental Physics III	2
PHYSICS 3021 Space Plasma Physics III	2
PHYSICS 3023 Space Science and Astrophysics III	2
Engineering Elective courses to the value of at least 4 units	4

Students accepted into the Honours stream will take Aerospace Honours Project Level IV and other students will take Aerospace Design Project Level IV.

6.5.2 Automotive Engineering

Candidates are required to complete satisfactorily courses to the value of 24 units at each of Levels I, II, III and IV.

C&ENVENG 1001 Statics	2
CHEM ENG 1002 Engineering Computing I	2
CHEM ENG 1003 Materials I	2
ELEC ENG 1008 Electrical Engineering IM	2
MATHS 1011 Mathematics IA	3
MATHS 1012 Mathematics IB	3
MECH ENG 1000 Dynamics	2
MECH ENG 1001 Design Graphics	2
MECH ENG 1005 Engineering Planning, Design and Communication M	3
PHYSICS 1003 Physics IHE	3

Level II

APP MTH 2000 Differential Equations and Fourier Series	2
APP MTH 2002 Vector Analysis and Complex Analysis	2
APP MTH 2009 Numerical Analysis and Probability and Statistics	2
MECH ENG 2002 Stress Analysis and Design	3
MECH ENG 2011 Mechatronics IM	2
MECH ENG 2018 Design Practice	4
MECH ENG 2019 Dynamics and Control I	3
MECH ENG 2020 Materials and Manufacturing	3
MECH ENG 2021 Thermo-Fluids I	3

Level III

MECH ENG 3006 Engineering Communication ESL (M) *	2
MECH ENG 3017 Engineering and the Environment	2
MECH ENG 3020 Heat Transfer	2
MECH ENG 3028 Dynamics and Control 2	3
MECH ENG 3029 Manufacturing Engineering	3
MECH ENG 3031 Thermo-Fluids II	3
MECH ENG 3033 Automotive Materials & Structures	3
MECH ENG 3034 Advanced Computer Aided Engineering	2
MECH ENG 3035 Automotive Combustion Technology	2

MECH ENG 3036 Automotive Power Train and Vehicle Dynamics	2
MECH ENG 3037 Automotive Design and Communication	3

* Available only to students whose native language is not English; may be presented in lieu of an elective at Level IV

Level IV

ELEC ENG 4048 Automotive Electrical and Electronic Systems	2
MECH ENG 4011 Advanced Automatic Control	2
MECH ENG 4043 Automotive NVH and Aerodynamics	2
MECH ENG 4044 Automotive Safety	2
MECH ENG 4045 Advanced Manufacturing and Quality Systems	2
MECH ENG 4047A/B Automotive Honours Project Level IV #	8
MECH ENG 4048 A/B Automotive Design Project Level IV #	8
MECH ENG 4049 Finance for Automotive Engineers	2
Elective courses to the value of at least 4 units	4

Electives*

APP MTH 4043 Transform Methods and Signal Processing **	2
MECH ENG 4000 Fundamentals in Non-Linear Computational Mechanics	2
MECH ENG 4003 Fracture Mechanics	2
MECH ENG 4004 Engineering Acoustics	2
MECH ENG 4007 Computational Fluid Dynamics (Engineering) **	2
MECH ENG 4020 Advanced Vibrations	2
MECH ENG 4025 Topics in Welded Structures	2
MECH ENG 4026 Environmental and Architectural Acoustics	2
MECH ENG 4027 Robotics M	2
MECH ENG 4028 Mechatronics IIIM	2
MECH ENG 4033 Mechanical Signature Analysis	2
MECH ENG 4046 Computation Technique for Engineering Applications	2
MECH ENG 4052 Introduction to Biomechanics	2

* Not all electives are offered each year. With the approval of the Head of the School of Mechanical Engineering, courses offered by other schools within the University may be included. Of the two electives chosen, at least one must be offered by the School of Mechanical Engineering.

** Not offered by the School of Mechanical Engineering.

Students accepted into the Honours stream will take Aerospace Honours Project Level IV and other students will take Aerospace Design Project Level IV.

6.5.3 Chemical Engineering

Candidates are required to complete satisfactorily courses to the value of 24 units at each of Levels I, II, III and IV, in one of the programs listed under 6.5.3.1 to 6.5.3.4 below:

6.5.3.1 Chemical Engineering

Note: Combined/double degree students must undertake this program.

Level I

C&ENVENG 1000 Engineering Planning and Design	2
C&ENVENG 1001 Statics	2
CHEM 1100 Chemistry IA	3
CHEM 1200 Chemistry IB	3
CHEM ENG 1000 Process Systems	2
CHEM ENG 1002 Engineering Computing I	2
CHEM ENG 1003 Materials I	2
CHEM ENG 1005 Process Heat Transfer	2
MATHS 1011 Mathematics IA	3
MATHS 1012 Mathematics IB	3

Level II

APP MTH 2000 Differential Equations and Fourier Series	2
APP MTH 2004 Numerical Methods in Engineering (Chemical)	2
CHEM 2104 Chemistry IIAE	4
CHEM 2204 Chemistry IIBE	4
CHEM ENG 2001 Chemical Process Principles II	3
CHEM ENG 2003 Introductory Process Fluid Mechanics	3
CHEM ENG 2006 Plant and Process Engineering	2
CHEM ENG 3002 Essay and Seminar *	2
STATS 2004 Laplace Transforms and Probability and Statistical Methods	2

* students whose native language is not English may present CHEM ENG 3004 Engineering communication ESL (H) in lieu of Essay and Seminar.

Level III

CHEM ENG 3001 Materials III(CH)	2
CHEM ENG 3002 Essay and Seminar *	2
CHEM ENG 3003A/B Chemical Engineering Projects III	4
CHEM ENG 3005 Separation Processes	2
CHEM ENG 3006 Transport Phenomena	2
CHEM ENG 3010 Introduction to Biochemical Engineering	2
CHEM ENG 3014 Process Design and Plant Engineering	2
CHEM ENG 3015 Process Control and Instrumentation	2

CHEM ENG 3017 Kinetics and Reactor Design 3

CHEM ENG 3018 Fluid and Particle Mechanics 3

* students whose native language is not English may present CHEM ENG 3004 Engineering communication ESL (H) in lieu of Essay and Seminar. This course will be replaced by CHEM ENG 4024 in 2006.

Level IV

CHEM ENG 4003 Process Dynamics and Control 2

CHEM ENG 4009 Advanced Chemical Engineering 2

CHEM ENG 4010 Advanced Separation Techniques and Thermal Processes 2

CHEM ENG 4014 Plant Design Project 6

CHEM ENG 4018 Industrial Economics and Management 2

CHEM ENG 4025 Chemical Engineering Projects IV 2

CHEM ENG 4026 Chemical Engineering Research Project (H)# 2

or

CHEM ENG 4027 Chemical Engineering Research Project (N)# 2

Chemical Engineering Electives * 6

Electives*

Electives to the value of 6 units to be selected from the following list. (With the approval of the Head of the School of Chemical Engineering, courses offered by other schools within the University may be included in the selection of electives.)

CHEM ENG 4001 Special Studies in Chemical Engineering 2

CHEM ENG 4002A/B Chemical Engineering Research Elective II 4

CHEM ENG 4004 Minerals Processing 2

CHEM ENG 4005 Thermal Process Synthesis and Integration 2

CHEM ENG 4006 Special Management Studies 2

CHEM ENG 4007 AI Applications in Engineering Design 2

CHEM ENG 4008 Biochemical Engineering 2

CHEM ENG 4011 Reaction Engineering 2

CHEM ENG 4013 Biomedical Engineering 2

CHEM ENG 4015 Hydrocarbon Reservoirs 2

CHEM ENG 4016 Advanced Materials Engineering 2

CHEM ENG 4017 Particulate Technology 2

CHEM ENG 4020A/B Chemical Engineering Research Elective 2

CHEM ENG 4021 Combustion Processes 2

CHEM ENG 4022 Plant and Safety Engineering 2

CHEM ENG 4023 Industrial Rheology 2

CHEM ENG 4024 Environmental Engineering 2

* not all courses are offered each year. - Information on course availability provided at time of enrolment.

Students accepted into the Honours stream will take Chemical Engineering Research Project (H) and other students will take Chemical Engineering Research Project (N).

6.5.3.2 Chemical Engineering (Process and Product Engineering)

Level I

C&ENVENG 1000 Engineering Planning and Design 2

C&ENVENG 1001 Statics 2

CHEM 1100 Chemistry IA 3

CHEM 1200 Chemistry IB 3

CHEM ENG 1000 Process Systems 2

CHEM ENG 1002 Engineering Computing I 2

CHEM ENG 1003 Materials I 2

CHEM ENG 1005 Process Heat Transfer 2

MATHS 1011 Mathematics IA 3

MATHS 1012 Mathematics IB 3

Level II (not available in 2005)

APP MTH 2000 Differential Equations & Fourier Series 2

APP MTH 2004 Numerical Methods in Engineering (Chemical) 2

CHEM 2104 Chemistry IIAE 4

CHEM 2204 Chemistry IIBE 4

CHEM ENG 2001 Chemical Process Principles II 3

CHEM ENG 2003 Introductory Process Fluid Mechanics 3

CHEM ENG 2006 Plant and Process Engineering 2

CHEM ENG 3002 Essay & Seminar * 2

STATS 2004 Laplace Transforms and Probability and Statistical Methods 2

* Students whose native language is not English may present CHEM ENG 3004 Engineering Communication ESL (H) in lieu of Essay and Seminar

Level III (not available in 2005)

CHEM ENG 3001 Materials III(CH) 2

CHEM ENG 3003A/B Chemical Engineering Projects III 4

CHEM ENG 3005 Separation Processes 2

CHEM ENG 3006 Transport Phenomena 2

CHEM ENG 3010 Introduction to Biochemical Engineering 2

CHEM ENG 3014 Process Design & Plant Engineering 2

CHEM ENG 3015 Process Control & Instrumentation 2

CHEM ENG 3017 Kinetics and Reactor Design 3

CHEM ENG 3018 Fluid and Particle Mechanics	3
CHEM ENG 4024 Environmental Engineering	2

Level IV (not available in 2005

CHEM ENG 4003 Process Dynamics and Control	2
CHEM ENG 4009 Advanced Chemical Engineering	2
CHEM ENG 4014 Plant Design Project	6
CHEM ENG 4010 Advanced Separation Techniques and Thermal Processes	2
CHEM ENG 4018 Industrial Economics & Management	2
CHEM ENG 4025 Chemical Engineering Projects IV	2
CHEM ENG 4026 Chemical Engineering Research Project (H)#	2
or	
CHEM ENG 4027 Chemical Engineering Research Project (N)#	2
CHEM ENG 4030 Product Engineering & Development	2
Chemical Engineering Electives*	6

Students accepted into the honours stream will take Chemical Engineering Research Project (H) and other students will take Chemical Engineering Research Project (N). .

Electives*

Electives to the value of 6 units to be selected from the following list. (With the approval of the Head of the School of Chemical Engineering, courses offered by other Schools within the Schools of Engineering may be included in the selection of electives.)

CHEM ENG 4002A/B Chemical Engineering Research Elective II *	4
CHEM ENG 4004 Minerals Processing	2
CHEM ENG 4008 Biochemical Engineering	2
CHEM ENG 4020A/B Chemical Engineering Research Elective	2
CHEM ENG 4021 Combustion Processes	2

* Approval is needed from the Head of the School of Chemical Engineering to enrol in this course

6.5.3.3 Chemical Engineering (Energy and Environment)

Level I

C&ENVENG 1000 Engineering Planning & Design	2
CHEM 1100 Chemistry IA	3
CHEM ENG1000 Process Systems	2
CHEM ENG1002 Engineering Computing I	2
CHEM ENG 1003 Materials I	2
CHEM ENG 1005 Process Heat Transfer	2
CHEM ENG 1200 Chemistry IB	3
ENV BIOL1002 Environmental Biology I	3
MATHS 1011 Mathematics IA	3
MATHS1012 Mathematics IB	3

Level II (not available in 2005)

APP MTH 2000 Differential Equations & Fourier Series	2
APP MTH 2004 Numerical Methods in Engineering (Chemical)	2
CHEM 2003 Environmental Chemistry II	4
CHEM ENG 2000 Chemical Engineering Thermodynamics	2
CHEM ENG 2001 Chemical Process Principles II	3
CHEM ENG 2003 Introductory Process Fluid Mechanics	3
CHEM ENG 2006 Plant and Process Engineering	2
CHEM ENG 2007 Environmental Essay & Seminar *	2
CHEM ENG 3011 Transport Processes in the Environment	2
GEOLOGY 2005 Geology for Engineers	2

* Students whose native language is not English may present CHEM ENG 3004 Engineering Communication ESL (H) in lieu of Environmental Essay and Seminar

Level III (not available in 2005)

CHEM ENG 2035 Water Engineering II S2	2
CHEM ENG 3001 Materials III(CH)	2
CHEM ENG 3003A/B Chemical Engineering Projects III	4
CHEM ENG 3005 Separation Processes	2
CHEM ENG 3006 Transport Phenomena	2
CHEM ENG 3014 Process Design and Plant Engineering	2
CHEM ENG 3015 Process Control and Instrumentation	2
CHEM ENG 3017 Kinetics and Reactor Design	3
CHEM ENG 3018 Fluid and Particle Mechanics	3
CHEM ENG 4024 Environmental Engineering	2

Level IV (not available in 2005)

CHEM ENG 4028 Advanced Environmental Design and Cleaner Production	2
CHEM ENG 4010 Advanced Separation Techniques and Thermal Processes	2
CHEM ENG 4025 # Chemical Engineering Projects IV	2
CHEM ENG 4021 Combustion Processes	2
CHEM ENG 4003 Process Dynamics and Control	2
CHEM ENG 4026 Chemical Engineering Research Project (H)#	2
or	
CHEM ENG 4027 Chemical Engineering Research Project (N)#	2
CHEM ENG 4018 Industrial Economics & Management	2

CHEM ENG 4029 Process Design Project (Environmental) 6

Chemical Engineering Electives* 6

Students accepted into the honours stream will take Chemical Engineering Research Project (H) and other students will take Chemical Engineering Research Project (N).

Electives*

Electives to the value of 6 units to be selected from the following list. (With the approval of the Head of the School of Chemical Engineering, courses offered by other Schools within the Schools of Engineering may be included in the selection of electives.)

CHEM ENG 3013 Water Engineering & Design IIIA 2

CHEM ENG 3014 Water Engineering & Design IIIB 2

CHEM ENG 4002A/B Chemical Engineering Research Elective II ** 4

CHEM ENG 4004 Minerals Processing 2

CHEM ENG 4008 Biochemical Engineering 2

CHEM ENG 4009 Advanced Chemical Engineering 2

CHEM ENG 4020A/B Chemical Engineering Research Elective 2

** Approval is needed from the Head of the School of Chemical Engineering to enrol in this course

6.5.3.4 Chemical Engineering (Food, Wine and Biomolecular)

Level I

BIOLOGY 1101 Biology I: Molecules, Genes and Cells A ** 3

or

BIOLOGY 1102 Biology I: Molecules, Genes and Cells B ** 3

BIOLOGY 1202 Biology I: Organisms 3

C&ENVENG 1000 Engineering Planning and Design 2

CHEM 1100 Chemistry IA 3

CHEM ENG 1003 Materials I 2

CHEM ENG 1004 Introduction to Bio-processing 3

CHEM ENG 1005 Process Heat Transfer 2

MATHS 1011 Mathematics IA 3

MATHS 1012 Mathematics IB 3

** Students who have not taken SACE Stage 2 Biology will be required to take Biology I: Molecules, Genes and Cells A in lieu of Biology I: Molecules, Genes and Cells B.

Level II (not available in 2005)

APP MTH 2000 Differential Equations & Fourier Series 2

APP MTH 2004 Numerical Methods in Engineering (Chemical) 2

BIOTECH 2005 Principles of Biotechnology II 4

CHEM ENG 2001 Chemical Process Principles II 3

CHEM ENG 2003 Introductory Process Fluid Mechanics 3

CHEM ENG 2006 Plant and Process Engineering 2

CHEM ENG 2008 Essay & Seminar (FWB) * 2

MICRO 2002 Microbiology II (Biotechnology) 4

OENOLOGY 2024WT Introductory Winemaking 3

* Students whose native language is not English may present CHEM ENG 3004 Engineering Communication ESL (H) in lieu of Essay and Seminar FWB

Level III (not available in 2005)

CHEM ENG 3003A/B Chemical Engineering Projects III 4

CHEM ENG 3005 Separation Processes 2

CHEM ENG 3006 Transport Phenomena 2

CHEM ENG 3014 Process Design & Plant Engineering 2

CHEM ENG 3015 Process Control and Instrumentation 2

CHEM ENG 3017 Kinetics and Reactor Design 3

CHEM ENG 3018 Fluid and Particle Mechanics 3

FOODT&M 1000RG Introduction to Food Technology 3

FOODT&M 3003RG Food Preservation & Packaging 3

Level IV (not available in 2005)

CHEM ENG 4010 Advanced Separation Techniques and Thermal Processes 2

CHEM ENG 4003 Process Dynamics and Control 2

CHEM ENG 4008 Biochemical Engineering 2

CHEM ENG 4018 Industrial Economics & Management 2

CHEM ENG 4024 Environmental Engineering 2

CHEM ENG 4025 Chemical Engineering Projects IV 2

CHEM ENG 4026 Chemical Engineering Research Project (H)# 2

or

CHEM ENG 4027 Chemical Engineering Research Project (N)# 2

CHEM ENG 4031 Process Design Project (FWB) 6

Chemical Engineering Electives* 6

Students accepted into the honours stream will take Chemical Engineering Research Project (H) and other students will take Chemical Engineering Research Project (N). .

Electives*

Electives to the value of 6 units to be taken from the following list. (With the approval of the Head of the School of Chemical Engineering, courses offered by other Schools within the Schools of Engineering may be included in the selection of electives.)

CHEM ENG 4002A/B Chemical Engineering Research Elective II ** 4

CHEM ENG 4004 Minerals Processing 2

CHEM ENG 4009 Advanced Chemical Engineering	2
CHEM ENG 4020A/B Chemical Engineering Research Elective	2
FOODT&M 2002WT Nutrition II	4
FOODT&M 3011RG Food Chemistry	3
FOODT&M 3014RG Food Quality & Regulation	3

** Approval is needed from the Head of the School of Chemical Engineering to enrol in this course.

Law courses**

LAW 1001 Introduction to Australian Law	4
LAW 1002 Law of Torts	4
LAW 1003 Law of Contract	4
LAW 1004 Law of Crime	4
LAW 1005 Property Law	4
Law electives	

** available only to students who have been admitted to the LL.B. program. Students may present these courses towards their Bachelor of Engineering in accordance with the scheme of study set out in note 1 below.

Notes

1 Law Studies within the B.E.(Chem) program

To qualify for both the award of the degree of B.E.(Chem) and the award of the degree of LL.B., candidates are required to complete satisfactorily the courses listed below:

First Year (24 units)

CHEM 1100 Chemistry IA	3
CHEM 1200 Chemistry IB	3
CHEM ENG 1000 Process Systems	2
CHEM ENG 1002 Engineering Computing I	2
CHEM ENG 1003 Materials I	2
CHEM ENG 1005 Process Heat Transfer	2
LAW 1001 Introduction to Australian Law	4
MATHS 1011 Mathematics IA *	3
or	
MATHS 1013 Mathematics IMA *	3
MATHS 1012 Mathematics IB *	3
or	
MATHS 1014 Mathematics IMB *	3

* Students who have not taken SACE Stage 2 Specialist Maths will be required to take MATHS 1013/1014 Mathematics IMA/B in lieu of MATHS 1011/1012 Mathematics IA/B. Such students must also take the Level II course MATHS 2004 Mathematics IIM. The satisfactory completion of Mathematics IIM is in addition to the normal requirements of the B.E. plan.

Second Year (26 units)

APP MTH 2000 Differential Equations and Fourier Series	2
APP MTH 2004 Numerical Methods in Engineering (Chemical)	2
CHEM ENG 2000 Chemical Engineering Thermodynamics	2
CHEM ENG 2001 Chemical Process Principles II	3
CHEM ENG 2003 Introductory Process Fluid Mechanics	3
CHEM ENG 2006 Plant and Process Engineering	2
CHEM ENG 3002 Essay and Seminar	2
LAW 1002 Law of Torts	4
LAW 1003 Law of Contract	4
STATS 2004 Laplace Transforms and Probability and Statistical Methods	2

Third Year (24 units)

CHEM ENG 3001 Materials III (CH)	2
CHEM ENG 3003A/B Chemical Engineering Projects III	4
CHEM ENG 3005 Separation Processes	2
CHEM ENG 3014 Process Design and Plant Engineering	2
CHEM ENG 3015 Process Control and Instrumentation	2
CHEM ENG 3017 Kinetics and Reactor Design	3
CHEM ENG 3018 Fluid and Particle Mechanics	3
LAW 1005 Property Law	2
Law elective *	2

Fourth Year (24 units)

CHEM ENG 4003 Process Dynamics and Control	2
CHEM ENG 4009 Advanced Chemical Engineering	2
CHEM ENG 4010 Advanced Separation Techniques and Thermal Processes	2
CHEM ENG 4014 Plant Design Project	6
CHEM ENG 4018 Industrial Economics and Management	2
CHEM ENG 4025 Chemical Engineering Projects IV	2
CHEM ENG 4026 Chemical Engineering Research Project (H)#	2
or	
CHEM ENG 4027 Chemical Engineering Research Project (N#	2
Law elective *	2
LAW 1004 Law of Crime	4

Students accepted into the Honours stream will take Chemical Engineering Research Project (H) and other students will take Chemical Engineering Research Project (N).

* Students should consult the Law School at enrolment for advice on electives offered.

Note: to complete the B.E.(Chem) and LL.B. degree programs in minimum time, candidates are required to take all these courses even though it involves an overload.

Later Years

In accordance with LL.B. Academic Program Rules.

2 Direct entry B.E.(Chem.)/B.Sc.
(see also Academic Program Rule 6.4.2)

To qualify for both the award of the degree of B.E.(Chem.) and the award of the degree of B.Sc., candidates are required to complete satisfactorily the courses listed below:

First Year (24 units)

CHEM 1100 Chemistry IA 3
and
CHEM 1200 Chemistry IB 3
either
BIOLOGY 1101 Biology I: Molecules, Genes and Cells A ** 3
or
BIOLOGY 1102 Biology I: Molecules, Genes and Cells B ** 3
and either
BIOLOGY 1202 Biology I: Organisms 3
or
BIOLOGY 1201 Biology I: Human Perspectives 3
or
PHYSICS 1100 Physics IA 3
and
PHYSICS 1200 Physics IB 3
or
GEOLOGY 1100 Earth's Interior I 3
and
GEOLOGY 1200 Earth's Environment I 3
and either
MATHS 1011 Mathematics IA * 3
or
MATHS 1013 Mathematics IMA * 3
and MATHS 1012 Mathematics IB * 3
or
MATHS 1014 Mathematics IMB * 3

Engineering courses to the value of 6 units as follows:

CHEM ENG 1002 Engineering Computing I 2
CHEM ENG 1003 Materials I 2
CHEM ENG 1005 Process Heat Transfer 2

* Students who have not taken SACE Stage 2 Specialist Maths will be required to take MATHS 1013/1014 Mathematics IMA/B in lieu of MATHS 1011/1012 Mathematics IA/B. Such students must also take the Level II course MATHS 2004 Mathematics IIM. The satisfactory completion of Mathematics IIM is in addition to the normal requirements of the B.E. plan.

** Students who have not taken SACE Stage 2 Biology will be required to take Biology I: Molecules, Genes and Cells A in lieu of Biology I: Molecules, Genes and Cells B.

Second Year (26 units)

APP MTH 2000 Differential Equations and Fourier Series 2
APP MTH 2004 Numerical Methods in Engineering (Chemical) 2
CHEM 2100 Chemistry IIA 4
or
another Level II Science course to the value of 4 units 4
CHEM 2200 Chemistry IIB 4
or
another Level II Science course to the value of 4 units 4
CHEM ENG 2000 Chemical Engineering Thermodynamics ** 2
CHEM ENG 2001 Chemical Process Principles II 3
CHEM ENG 2003 Introductory Process Fluid Mechanics 3
CHEM ENG 2006 Plant and Process Engineering 2
CHEM ENG 3002 Essay and Seminar 2
STATS 2004 Laplace Transforms and Probability and Statistical Methods 2

** Students enrolled in Chemistry II A/B need not enrol in Chemical Engineering Thermodynamics, but are strongly advised to attend lectures.

Third Year (24 units)

CHEM ENG 3001 Materials III (CH) 2
CHEM ENG 3002 Essay and Seminar** 2
CHEM ENG 3003A/B Chemical Engineering Projects III 4
CHEM ENG 3005 Separation Processes 2
CHEM ENG 3006 Transport Phenomena 2
CHEM ENG 3010 Introduction to Biochemical Engineering 2
CHEM ENG 3014 Process Design and Plant Engineering 2
CHEM ENG 3015 Process Control and Instrumentation 2
CHEM ENG 3017 Kinetics and Reactor Design 3
CHEM ENG 3018 Fluid and Particle Mechanics 3

Fourth Year (24 units)

Level III Science courses to the value of 24 units.

Fifth Year (24 units)

CHEM ENG 4003 Process Dynamics and Control 2
CHEM ENG 4009 Advanced Chemical Engineering 2
CHEM ENG 4010 Advanced Separation Techniques and Thermal Processes 2
CHEM ENG 4014 Plant Design Project 6
CHEM ENG 4018 Industrial Economics and Management 2
CHEM ENG 4025 Chemical Engineering Projects IV 2
CHEM ENG 4026 Chemical Engineering Research Project (H)* 2
or
CHEM ENG 4027 Chemical Engineering Research Project (N)* 2
Engineering Elective courses to the value of 6. units from list above 6

* Students accepted into the Honours stream will take Chemical Engineering Research Project (H) and other students will take Chemical Engineering Research Project (N).

** To be replaced by CHEM ENG 4024 Environmental Engineering in 2006.

3 Direct Entry B.E.(Chem.)/B.Ma.& Comp.Sc.

Refer to Academic Program Rule 6.4.3 for the requirements of this program.

4 Arts Studies combined with the B.E.(Chem)

To qualify for the award of the degrees of B.E.(Chem) and B.A., candidates are required to complete satisfactorily:

(i) All the courses for the Chemical Engineering program with the exception of the following courses amounting to eight units:

Chem Eng 3002 Essay and Seminar	2
Three Electives at Level IV	6

(ii) The Arts requirements set out in Section 6.4.4 of these Academic Program Rules.

Thus the B.E.(Chem)/B.A. may be completed in five years of full-time study without any overload.

5 Program of study for the direct entry B.E.(Chem.)/B.Ec. program

To qualify for both the award of the degree of B.E.(Chem.) and the degree of B.Ec., candidates are required to complete satisfactorily courses as indicated below:

First Year (24 units)

C&ENVENG 1000 Engineering Planning and Design	2
C&ENVENG 1001 Statics	2
CHEM 1100 Chemistry IA	3
CHEM 1200 Chemistry IB	3
CHEM ENG 1000 Process Systems	2
CHEM ENG 1002 Engineering Computing I	2
CHEM ENG 1003 Materials I	2
CHEM ENG 1005 Process Heat Transfer	2
either	
MATHS 1011 Mathematics IA *	3
or	
MATHS 1013 Mathematics IMA *	3
and	
MATHS 1012 Mathematics IB *	3
or	
MATHS 1014 Mathematics IMB *	3

* Students who have not taken SACE Stage 2 Specialist Maths will be required to take MATHS 1013/1014 Mathematics IMA/B in lieu of MATHS 1011/1012 Mathematics IA/B. Such students must also take the Level II course MATHS 2004 Mathematics IIM. The satisfactory completion of Mathematics IIM is in addition to the normal requirements of the B.E. plan.

Note: The B.Ec. degree requirement that students take ECON 1008 Business Data Analysis I (3 units) will be considered satisfied by students taking CHEM ENG 1002 Engineering Computing I at Level I and STATS 2004 Laplace Transforms and Probability and Statistical Methods at Level II.

Second Year (24 units)

APP MTH 2000 Differential Equations and Fourier Series	2
APP MTH 2004 Numerical Methods in Engineering (Chemical)	2
CHEM ENG 2000 Chemical Engineering Thermodynamics	2
CHEM ENG 2001 Chemical Process Principles II	3
CHEM ENG 2003 Introductory Process Fluid Mechanics	3
CHEM ENG 2006 Plant and Process Engineering	2
CHEM ENG 3002 Essay and Seminar	2
ECON 1000 Principles of Macroeconomics I	3
ECON 1004 Principles of Microeconomics I	3
STATS 2004 Laplace Transforms and Probability and Statistical Methods	2

Third Year (26 units)

CHEM ENG 3001 Materials III (CH)	2
CHEM ENG 3003A/B Chemical Engineering Projects III	4
CHEM ENG 3005 Separation Processes	2
CHEM ENG 3014 Process Design and Plant Engineering	2
CHEM ENG 3015 Process Control and Instrumentation	2
CHEM ENG 3017 Kinetics and Reactor Design	3
CHEM ENG 3018 Fluid and Particle Mechanics	3
ECON 2009 Consumers, Firms and Markets II	4
ECON 2011 Macroeconomic Theory and Policy II	4

Fourth Year (24 units)

COMMGMT 2007 Organisational Behaviour II	4
ECON 2006 Economic and Financial Data Analysis II	4
Plus at least 16 units of Level III Economics courses chosen from those listed in Academic Program Rule 4.7.1 of the degree of Bachelor of Economics	16

Note: B.Ec. students currently must take an Economic History course to qualify for the B.Ec. degree. Please refer to the Academic Program Rules of the B.Ec. degree.

Fifth Year (24 units)

CHEM ENG 4003 Process Dynamics and Control	2
CHEM ENG 4009 Advanced Chemical Engineering	2
CHEM ENG 4010 Advanced Separation Techniques and Thermal Processes	2
CHEM ENG 4014 Plant Design Project	6
CHEM ENG 4018 Industrial Economics and Management	2
CHEM ENG 4025 Chemical Engineering Projects IV	2
CHEM ENG 4027 Chemical Engineering Research Project (N)#	2
or	
CHEM ENG 4026 Chemical Engineering Research Project (H)#	2
Plus at least 6 units of Level IV Chemical Engineering electives (listed above)	6

Students accepted into the Honours stream will take Chemical Engineering Research Project (H) and other students will take Chemical Engineering Research Project (N).

6 Program of study for the direct entry B.E.(Chem.)/B.Fin. program

To qualify for both the award of the degree of B.E.(Chem) and the degree of B.Fin., candidates are required to complete satisfactorily courses as indicated below:

First Year (24 units)

C&ENVENG 1000 Engineering Planning and Design	2
C&ENVENG 1001 Statics	2
CHEM 1100 Chemistry IA	3
CHEM 1200 Chemistry IB	3
CHEM ENG 1000 Process Systems	2
CHEM ENG 1002 Engineering Computing I	2
CHEM ENG 1003 Materials I	2
CHEM ENG 1005 Process Heat Transfer	2
either	
MATHS 1011 Mathematics IA *	3
or	
MATHS 1013 Mathematics IMA *	3
and either	
MATHS 1012 Mathematics IB *	3
or	
MATHS 1014 Mathematics IMB *	3

* Students who have not taken SACE Stage 2 Specialist Maths will be required to take MATHS 1013/1014 Mathematics IMA/B in lieu of MATHS 1011/1012 Mathematics IA/B. Such students must also take the Level II course MATHS 2004 Mathematics IIM. The satisfactory completion of Mathematics IIM is in addition to the normal requirements of the B.E. plan.

Note: the B.Fin. degree requirement that students take ECON 1008 Business Data Analysis I or STATS 1000 Statistical Practice I (3 units) will be considered satisfied by students taking CHEM ENG 1002 Engineering Computing I at Level I and STATS 2004 Laplace Transforms and Probability and Statistical Methods at Level II.

Second Year (24 units)

APP MTH 2000 Differential Equations and Fourier Series	2
APP MTH 2004 Numerical Methods in Engineering (Chemical)	2
CHEM ENG 2000 Chemical Engineering Thermodynamics	2
CHEM ENG 2001 Chemical Process Principles II	3
CHEM ENG 2003 Introductory Process Fluid Mechanics	3
CHEM ENG 2006 Plant and Process Engineering	2
CHEM ENG 3002 Essay and Seminar	2
ECON 1000 Principles of Macroeconomics I	3
ECON 1004 Principles of Microeconomics I	3
STATS 2004 Laplace Transforms and Probability and Statistical Methods	2

Third Year (24 units)

ACCTING 1002 Accounting for Decision Makers I	3
CHEM ENG 3001 Materials III (CH)	2
CHEM ENG 3003A/B Chemical Engineering Projects III	4
CHEM ENG 3005 Separation Processes	2
CHEM ENG 3014 Process Design and Plant Engineering	2
CHEM ENG 3015 Process Control and Instrumentation	2
CHEM ENG 3017 Kinetics and Reactor Design	3
CHEM ENG 3018 Fluid and Particle Mechanics	3
FINANCE 1000 International Financial Institutions and Markets I	3

Fourth Year (24 units)

CHEM ENG 4003 Process Dynamics and Control	2
CHEM ENG 4009 Advanced Chemical Engineering	2
CHEM ENG 4010 Advanced Separation Techniques and Thermal Processes	2
CHEM ENG 4018 Industrial Economics and Management	2
CHEM ENG 4025 Chemical Engineering Projects IV	2
CHEM ENG 4026 Chemical Engineering Research Projects (H)#	2
or	
CHEM ENG 4027 Chemical Engineering Research Projects (N)#	2
CORPFIN 2006 Business Finance II	4
ECON 2006 Economic and Financial Data Analysis II	4
ECON 2012 Financial Economics II	4

Students accepted into the Honours stream will take Chemical Engineering Research Project (H) and other students will take Chemical Engineering Research Project (N).

Fifth Year (24 units)

CHEM ENG 4014 Plant Design Project	6
2 units of Level IV Chemical Engineering electives	2

Plus at least 16 units of Level III Finance courses chosen from those listed in Academic Program Rule 4.9.1 of the degree of Bachelor of Finance including CORPFIN 3009 Portfolio Theory and Management III and either APP MTH 3011 Financial Modelling Techniques III or CORPFIN 3013 Options, Futures and Risk Management III.

7 Program of study for the direct entry B.E.(Chem.)/B.Sc.(Biotech.) program

To qualify for both the award of the degree of B.E.(Chem.) and the degree of B.Sc.(Biotech.), candidates are required to complete satisfactorily courses as indicated below:

First Year (25 units)

BIOLOGY 1101 Biology I: Molecules, Genes and Cells A **	3
or	
BIOLOGY 1102 Biology I: Molecules, Genes and Cells B **	3
and	
BIOLOGY 1201 Biology I: Human Perspectives	3
BIOTECH 1000 Introduction to Biotechnology	3
CHEM 1100 Chemistry IA	3
and	
CHEM 1200 Chemistry IB	3
CHEM ENG 1000 Process Systems	2
CHEM ENG 1002 Engineering Computing I	2
either	
MATHS 1011 Mathematics IA *	3
or	
MATHS 1013 Mathematics IMA *	3

and either

MATHS 1012 Mathematics IB * 3

or

MATHS 1014 Mathematics IMB * 3

* Students who have not taken SACE Stage 2 Specialist Maths will be required to take MATHS 1013/1014 Mathematics IMA/B in lieu of MATHS 1011/1012 Mathematics IA/B. Such students must also take the Level II course MATHS 2004 Mathematics IIM. The satisfactory completion of MATHS 2004 Mathematics IIM is in addition to the normal requirements of the B.E. plan.

** Students who have not taken SACE Stage 2 Biology will be required to take BIOLOGY 1101 Biology I: Molecules, Genes & Cells A in lieu of BIOLOGY 1102 Biology I: Molecules, Genes & Cells B.

Second Year (26 units)

APP MTH 2004 Numerical Methods in Engineering (Chemical) 2

BIOCHEM 2100 Biochemistry IIA 4

BIOTECH 2005 Principles of Biotechnology II 4

CHEM ENG 1003 Materials I 2

CHEM ENG 1005 Process Heat Transfer 2

CHEM ENG 2001 Chemical Process Principles II 3

CHEM ENG 2003 Introductory Process Fluid Mechanics 3

CHEM ENG 2006 Plant and Process Engineering 2

MICRO 2002 Microbiology II (Biotech) 4

Third Year (24 units)

BIOCHEM 2200 Biochemistry IIB 4

CHEM ENG 3001 Materials III (CH) 2

CHEM ENG 3003A/B Chemical Engineering Projects III 4

CHEM ENG 3005 Separation Processes 2

CHEM ENG 3010 Introduction to Biochemical Engineering 2

CHEM ENG 3014 Process Design and Plant Engineering 2

CHEM ENG 3015 Process Control and Instrumentation 2

CHEM ENG 3017 Kinetics and Reactor Design 3

CHEM ENG 3018 Fluid and Particle Mechanics 3

Fourth Year (24 units)

BIOCHEM 3000 Molecular and Structural Biology III 6

BIOCHEM 3001 Cell and Development Biology III 6

BIOTECH 3000 Biotechnology Practice III 6

PHARM 3010 Pharmacology IIIA 6

Fifth Year (24 units)

CHEM ENG 4003 Process Dynamics and Control 2

CHEM ENG 4008 Biochemical Engineering 2

CHEM ENG 4010 Advanced Separation Techniques and Thermal Processes 2

CHEM ENG 4014 Plant Design Project 6

CHEM ENG 4018 Industrial Economics and Management 2

CHEM ENG 4024 Environmental Engineering 2

CHEM ENG 4025 Chemical Engineering Projects IV 2

CHEM ENG 4026 Chemical Engineering Research Project (H)# 2

or

CHEM ENG 4027 Chemical Engineering Research Project (N)# 2

Level IV Chemical Engineering Elective courses to the value of at least 4 units 4

Students accepted into the Honours stream will take Chemical Engineering Research Project (H) and other students will take Chemical Engineering Research Project (N).

8 Candidates transferring after completing a Science degree

A candidate who has completed the academic requirements for the degree of B.Sc. should consult the Head of the School of Chemical Engineering before preparing an application to the Faculty for appropriate status. Normally, acceptable candidates may proceed to the degree of B.E.(Chem.) by completing a further two-year program as specified by the Head of School.

6.5.4 Civil and Environmental Engineering

Candidates are required to complete satisfactorily courses to the value of 24 units at each of Levels I, II, III and IV.

Level I

C&ENVENG 1000 Engineering Planning and Design 2

C&ENVENG 1001 Statics 2

C&ENVENG 1002 Civil & Environmental Engineering I 2

C&ENVENG 1003 Engineering Modelling and Analysis I 2

CHEM 1100 Chemistry IA 3

CHEM ENG 1000 Process Systems 2

ENV BIOL 1002 Environmental Biology 1 3

MATHS 1011 Mathematics IA 3

MATHS 1012 Mathematics IB 3

MECH ENG 1000 Dynamics 2

Level II

APP MTH 2010 Differential Equations and Statistical Methods (Civil) 3

C&ENVENG 2006 Geotechnical Engineering II 2

C&ENVENG 2014 Engineering Modelling and Analysis II 2

C&ENVENG 2015 Construction and Surveying 2

C&ENVENG 2026 Environmental Engineering II 2

C&ENVENG 2032 Structural Design IIA 2

C&ENVENG 2033 Water Engineering II S1 2

C&ENVENG 2035 Water Engineering II S2 2

C&ENVENG 2036 Strength of Materials IIE 2

ENV BIOL 2005 Plant Ecology E 3

GEOLOGY 2005 Geology for Engineers 2

Note: students undertaking the direct entry B.E.(Civil)/B.Ma.& Comp.Sc. combined program are advised to take the courses APP MTH 2000 Differential Equations and Fourier Series and STATS 2004 Laplace Transforms and Probability and Statistical Methods in lieu of APP MTH 2010 Differential Equations and Statistical Methods (Civil).

Level III

C&ENVENG 3008 Engineering Modelling & Analysis III 2

C&ENVENG 3009 Environmental Engineering and Design III 3

C&ENVENG 3011 Engineering Management and Planning 2

C&ENVENG 3012 Geotechnical Engineering Design III 3

C&ENVENG 3013 Water Engineering and Design IIIA 2

C&ENVENG 3014 Water Engineering and Design IIIB 2

C&ENVENG 3067 Environmental Science and Policy 2

CHEM ENG 3011 Transport Processes in the Environment 2

ECON 3018 Environmental Economics E III 3

and courses to the value of at least 3 units from the following:

C&ENVENG 3000 Engineering Communication ESL (C)* 2

ENV BIOL 3015 Ecosystems Modelling for Environmental Management III 3

Level II or III courses offered by the School of Mathematical Sciences to the value of 4 units 4

* available only to students whose native language is not English; may be substituted with an elective course at Level III.

Level IV

C&ENVENG 4005A/B Environmental Research Project N # 6

C&ENVENG 4034 Civil Engineering Management IV N 3

C&ENVENG 4037 Introduction to Environmental Law N 3

Elective* courses to the value of 12 units 12

The elective courses offered by the School in any one year will depend on student interest and staff availability, and will be chosen from the following:

Electives *

Group II: Water Engineering

C&ENVENG 4072 Advanced Engineering Hydrology and Design 3

C&ENVENG 4073 Advanced Water Distribution Systems and Design 3

C&ENVENG 4075 Advanced Water Resources Management and Design 3

C&ENVENG 4076 Advanced Water Resources Planning and Design 3

C&ENVENG 4077 Coastal Engineering and Design 3

C&ENVENG 4078 Special Topics in Water Engineering IV N 3

Group III: Geotechnical Engineering

C&ENVENG 4079 Advanced Foundation Engineering and Design 3

C&ENVENG 4081 Footing Design and Soil Variability 3

C&ENVENG 4082 Special Topics in Geotechnical Engineering IV N 3

Group IV: Management and Planning

C&ENVENG 4084 Special Topics in Management and Planning IV N 3

C&ENVENG 4085 Traffic Engineering and Design 3

Group V: Environmental Engineering

C&ENVENG 4086 Environmental Auditing and Design 3

C&ENVENG 4087 Environmental Processes, Modelling and Design 3

C&ENVENG 4088 Groundwater Resources, Contamination and Design 3

C&ENVENG 4089 Numerical Methods in Environmental Engineering and Design 3

C&ENVENG 4090 Special Topics in Environmental Engineering IV N 3

C&ENVENG 4091 Waste Management Analysis & Design 3

C&ENVENG 4092 Wastewater Engineering and Design 3

Alternatively, students may substitute up to 3 units of Level II or III courses offered by the School of Mathematical Sciences*. Students may also, with the approval of the Head of Civil and Environmental Engineering, replace one or more elective courses with appropriate courses offered by other schools within the University.

* Students may present a maximum of 6 units of elective Level II or III courses offered by the School of Mathematical Sciences.

Students who are not selected for Honours will be required to complete two additional final year specialisation courses instead of the Research Project.

Law Courses *

Law 1001 Introduction to Australian Law 4

Law 1002 Law of Torts 4

Law 1003 Law of Contract 4

Law 1004 Law of Crime 4

Law 1005 Property Law 4

Law electives 4

* available only to students who have been admitted to the LL.B. program. Students may present these courses towards their Bachelor of Engineering in accordance with the scheme of study set out in note 1 below.

Notes:

1 Law Studies within the B.E.(Civil & Environmental) program

First Year (26 units)

C&ENVENG 1000 Engineering Planning and Design	2
C&ENVENG 1001 Statics	2
C&ENVENG 1002 Civil & Environmental Engineering I	2
C&ENVENG 1003 Engineering Modelling and Analysis I	2
CHEM 1100 Chemistry IA	3
CHEM ENG 1000 Process Systems	2
LAW 1001 Introduction to Australian Law	4
either	
MATHS 1011 Mathematics IA *	3
or	
MATHS 1013 Mathematics IMA *	3
and either	
MATHS 1012 Mathematics IB *	3
or	
MATHS 1014 Mathematics IMB *	3
ENV BIOL 1002 Environmental Biology I	3

* Students who have not taken SACE Stage 2 Specialist Maths will be required to take MATHS 1013/1014 Mathematics IMA/B in lieu of MATHS 1011/1012 Mathematics IA/B. Such students must also take the Level II course MATHS 2004 Mathematics IIM. The satisfactory completion of Mathematics IIM is in addition to the normal requirements of the B.E. plan.

Second Year (26 units)

APP MTH 2010 Differential Equations & Statistical Methods (Civil)	3
C&ENVENG 2006 Geotechnical Engineering II	2
C&ENVENG 2014 Engineering Modelling & Analysis II	2
C&ENVENG 2026 Environmental Engineering II	3
C&ENVENG 2033 Water Engineering II S1	2
C&ENVENG 2035 Water Engineering II S2	2
C&ENVENG 2036 Strength of Materials IIE	2
ENV BIOL 2005 Plant Ecology E	3
LAW 1002 Law of Torts	4
LAW 1005 Property Law	4

Third Year (24 units)

C&ENVENG 3008 Engineering Modelling and Analysis III	2
C&ENVENG 3009 Environmental Engineering and Design III	3
C&ENVENG 3011 Engineering Management and Planning	2
C&ENVENG 3012 Geotechnical Engineering Design III	3
C&ENVENG 3013 Water Engineering and Design IIIA	2
C&ENVENG 3014 Water Engineering and Design IIIB	2
CHEM ENG 3011 Transport Processes and the Environment	2
LAW 1003 Law of Contract	4
Law electives *	4

* Students should consult the Law School at enrolment for advice on electives offered

Fourth Year (25 units)

C&ENVENG 4005A/B Environmental Research Project N #	6
C&ENVENG 4034 Civil Engineering Management IV N	3
LAW 1005 Property Law	4
Plus 12 units of Engineering Elective courses	12

Students who are not selected for Honours will be required to complete two additional final year specialisation courses instead of the Research Project.

Note: to complete the B.E.(Civil & Environmental) and LL.B. degree programs in minimum time, candidates are required to take all these courses even though it involves an overload.

Later Years

In accordance with the Academic Program Rules for the LL.B - please refer to the relevant section in this calendar.

2 Direct entry B.E.(Civil & Environmental)/B.Sc.
(see also Academic Program Rule 6.4.2).

To qualify for the award of the degree of B.E.(Civil & Environmental) and the degree of B.Sc., candidates are required to complete satisfactorily:

First Year (26 units)

C&ENVENG 1000 Engineering Planning and Design	2
C&ENVENG 1001 Statics	2
C&ENVENG 1002 Civil & Environmental Engineering I	2
C&ENVENG 1003 Engineering Modelling and Analysis I	2
CHEM 1100 Chemistry IA	3
CHEM 1200 Chemistry IB	3
either	
MATHS 1011Mathematics IA *	3
or	
MATHS 1013 Mathematics IMA *	3
and either	
MATHS 1012 Mathematics IB *	3
or	
MATHS 1014 Mathematics IMB *	3
either #	
BIOLOGY 1101 Biology I: Molecules, Genes and Cells A **	3
or	
BIOLOGY 1102 Biology I: Molecules, Genes and Cells B **	3
and	
BIOLOGY 1202 Biology I: Organisms	3
or	
GEOLOGY 1100 Earth's Interior I	3
and	
GEOLOGY 1200 Earth's Environment I	3
or	
PHYSICS 1100 Physics IA	3

and

PHYSICS 1200 Physics IB	3

Choice of courses may be restricted by timetabling. Students should consult the Head of School or nominee at enrolment.

* Students who have not taken SACE Stage 2 Specialist Maths will be required to take MATHS 1013/1014 Mathematics IMA/B in lieu of MATHS 1011/1012 Mathematics IA/B. Such students must also take the Level II course MATHS 2004 Mathematics IIM. The satisfactory completion of Mathematics IIM is in addition to the normal requirements of the B.E. plan.

** Students who have not taken SACE Stage 2 Biology will be required to take Biology I: Molecules, Genes and Cells A in lieu of Biology I: Molecules, Genes and Cells B.

Second Year (25 units)

APP MTH 2000 Differential Equations and Fourier Series	2
APP MTH 2002 Vector Analysis & Complex Analysis*	2
C&ENVENG 2006 Geotechnical Engineering II	2
C&ENVENG 2014 Engineering Modelling & Analysis II	2
C&ENVENG 2015 Construction & Surveying	2
C&ENVENG 2026 Environmental Engineering II	2
C&ENVENG 2033 Water Engineering II S1	2
C&ENVENG 2035 Water Engineering II S2	2
C&ENVENG 2036 Strength of Materials IIE	2
ENV BIOL 1002 Environmental Biology I	3
GEOLOGY 2005 Geology for Engineers	2
STATS 2004 Laplace Transforms and Probability and Statistical Methods	2

Third Year (25 units)

C&ENVENG 3009 Environmental Engineering and Design III	3
C&ENVENG 3011 Engineering Management and Planning	2
C&ENVENG 3012 Geotechnical Engineering Design III	3
C&ENVENG 3013 Water Engineering and Design IIIA	2
C&ENVENG 3014 Water Engineering and Design IIIB	2
C&ENVENG 3067 Environmental Science and Policy	2
ECON 3018 Environmental Economics E III	2
Level II Science courses	8

Fourth Year (24 units)

Level III Science courses	24

Fifth Year (24 units)

C&ENVENG 4005A/B Environmental Research Project N #	6
C&ENVENG 4034 Civil Engineering Management IV N	3
C&ENVENG 4037 Introduction to Environmental Law N	3
12 units of Engineering Elective courses	12

Students who are not selected for Honours will be required to complete two additional final year specialisation courses instead of the Research Project.

3 Direct Entry B.E.(Civil & Environmental)/B.Ma.& Comp.Sc.

Refer to Academic Program Rule 6.4.3 for the requirements of this program.

4 Arts studies combined with the B.E.(Civil & Environmental))

(see also section 6.4.4 of these Rules)

To qualify for the award of the degrees of B.E.(Civil & Environmental) and B.A., candidates are required to complete satisfactorily courses listed below:

To satisfy the requirements of the Arts component, students must undertake 32 units of Arts courses, including an approved major sequence, comprising 6 units at Level 1, 8 units at level II, 12 units at Level III, plus another 6 units at any Level.

Engineering Component

First Year (24 units)

C&ENVENG 1000 Engineering Planning and Design	2
C&ENVENG 1001 Statics	2
C&ENVENG 1002 Civil & Environmental Engineering 1	2
C&ENVENG 1003 Engineering Modelling and Analysis I	2
CHEM 1100 Chemistry IA	3
CHEM ENG 1000 Process Systems	2
ENV BIOL 1002 Environmental Biology I	3
either	
MATHS 1011 Mathematics IA *	3
or	
MATHS 1013 Mathematics IMA *	3
and either	
MATHS 1012 Mathematics IB *	3
or	
MATHS 1014 Mathematics IMB *	3
MECH ENG 1000 Dynamics	2

* Students who have not taken SACE Stage 2 Specialist Maths will be required to take MATHS 1013/1014 Mathematics IMA/B in lieu of MATHS 1011/1012 Mathematics IA/B. Such students must also take the Level II course MATHS 2004 Mathematics IIM. The satisfactory completion of MATHS 2004 Mathematics IIM is in addition to the normal requirements of the B.E. plan.

Second Year (24 units)

APP MTH 2010 Differential Equations & Statistical Methods (Civil)	3
C&ENVENG 2006 Geotechnical Engineering II	2
C&ENVENG 2014 Engineering Modelling and Analysis II	2
C&ENVENG 2015 Construction and Surveying	2
C&ENVENG 2026 Environmental Engineering II	2
C&ENVENG 2032 Structural Design IIA	2
C&ENVENG 2033 Water Engineering II S1	2
C&ENVENG 2035 Water Engineering II S2	2
C&ENVENG 2036 Strength of Materials IIE	2
ENV BIOL 2005 Plant Ecology E	3
GEOLOGY 2005 Geology for Engineers	2

Third Year (16 units)

C&ENVENG 3008 Engineering Modelling and Analysis III	3
C&ENVENG 3009 Environmental Engineering and Design III	2

C&ENVENG 3011 Engineering Management and Planning	2
C&ENVENG 3012 Geotechnical Engineering Design III	3
C&ENVENG 3013 Water Engineering and Design IIIA	2
C&ENVENG 3014 Water Engineering and Design IIIB	2
CHEM ENG 3011 Transport Process in the Environment	2
Fourth Year (24 units)	
C&ENVENG 4005A/B Environmental Research Project N #	6
C&ENVENG 4034 Civil Engineering Management IV N	3
C&ENVENG 4037 Introduction to Environmental Law N	3
Engineering Elective courses to the value of at least 12 units	12

Students who are not selected for Honours will be required to complete two additional final year specialisation courses instead of the Research Project.

5 Program of study for the direct entry B.E.(Civil & Environmental)/B.Ec. program

To qualify for both the award of the degree of B.E.(Civil & Environmental) and the degree of B.Ec, candidates are required to complete satisfactorily courses listed below:

First Year (26 units)	
C&ENVENG 1000 Engineering Planning & Design	2
C&ENVENG 1001 Statics	2
C&ENVENG 1002 Civil & Environmental Engineering I	2
C&ENVENG 1003 Engineering Modelling and Analysis I	2
CHEM 1100 Chemistry IA	3
ECON 1000 Principles of Macroeconomics I	3
ECON 1004 Principles of Microeconomics I	3
ENV BIOL 1002 Environmental Biology I	3
either	
MATHS 1011 Mathematics IA *	3
or	
MATHS 1013 Mathematics IMA *	3
and either	
MATHS 1012 Mathematics IB *	3
or	
MATHS 1014 Mathematics IMB *	3

* Students who have not taken SACE Stage 2 Specialist Maths will be required to take MATHS 1013/1014 Mathematics IMA/B in lieu of MATHS 1011/1012 Mathematics IA/B. Such students must also take the Level II course MATHS 2004 Mathematics IIM. The satisfactory completion of Mathematics IIM is in addition to the normal requirements of the B.E. plan.

Note: the B.Ec. degree requirement that students take ECON 1008 Business Data Analysis I (3 units) will be considered satisfied by students taking C&ENVENG ENG 1003 Engineering Modelling & Analysis I at Level I and APP MTH 2010 Differential Equations & Statistical Methods (Civil).

Second Year (24 units)	
APP MTH 2010 Differential Equations & Statistical Methods (Civil)	3
C&ENVENG 2006 Geotechnical Engineering II	2
C&ENVENG 2014 Engineering Modelling & Analysis II	2
C&ENVENG 2015 Construction & Surveying	2
C&ENVENG 2026 Environmental Engineering II	2
C&ENVENG 2032 Structural Design IIA	2
C&ENVENG 2033 Water Engineering II S1	2
C&ENVENG 2035 Water Engineering II S2	2
ENV BIOL 2005 Plant Ecology E	3
GEOLOGY 2005 Geology for Engineers	2
Third Year (25 units)	
C&ENVENG 3008 Engineering Modelling & Analysis III	2
C&ENVENG 3009 Environmental Engineering and Design III	2
C&ENVENG 3012 Geotechnical Engineering Design III	3
C&ENVENG 3013 Water Engineering and Design IIIA	2
C&ENVENG 3014 Water Engineering and Design IIIB	2
CHEM ENG 3011 Transport Process in the Environment	2
ECON 2009 Consumers, Firms and Markets II	4
ECON 2011 Macroeconomic Theory and Policy II	4
and courses to the value of at least 3 units from the following:	
ENV BIOL 3015 Ecosystem Modelling for Environmental Management III	3
Level II or III courses offered by the School of Mathematical Sciences	3
Fourth Year (24 units)	
COMMGMT 2007 Organisational Behaviour II	4
ECON 2006 Economic and Financial Data Analysis II	4
Plus at least 16 units of Level III Economics courses chosen from those listed in Academic Program Rule 4.7.1 of the degree of Bachelor of Economics	16

Note: B.Ec. students currently must take one Economic History course to qualify for the B.Ec. degree. Please refer to the Academic Program Rules of the B.Ec. degree.

Fifth Year (24 units)	
C&ENVENG 4005A/B Environmental Research Project N #	6
C&ENVENG 4034 Civil Engineering Management IV N	3
C&ENVENG 4037 Introduction to Environmental Law N	3
Plus at least 12 units of Level IV Engineering Elective courses listed above	12

Students who are not selected for Honours will be required to complete two additional final year specialisation courses instead of the Research Project.

6 Program of study for the direct entry B.E.(Civil & Environmental)/B.Fin. program

To qualify for both the award of the degree of B.E.(Civil & Environmental) and the degree of B.Fin, candidates are required to complete satisfactorily courses listed below:

First Year (26 units)	
C&ENVENG 1000 Engineering Planning & Design	2
C&ENVENG 1001 Statics	2
C&ENVENG 1002 Civil & Environmental Engineering I	2

C&ENVENG 1003 Engineering Modelling and Analysis I	2
CHEM 1100 Chemistry IA	3
ECON 1000 Principles of Macroeconomics I	3
ECON 1004 Principles of Microeconomics I	3
ENV BIOL 1002 Environmental Biology I	3
either	
MATHS 1011 Mathematics IA *	3
or	
MATHS 1013 Mathematics IMA *	3
and either	
MATHS 1012 Mathematics IB *	3
or	
MATHS 1014 Mathematics IMB *	3

* Students who have not taken SACE Stage 2 Specialist Maths will be required to take MATHS 1013/1014 Mathematics IMA/B in lieu of MATHS 1011/1012 Mathematics IA/B. Such students must also take the Level II course MATHS 2004 Mathematics IIM. The satisfactory completion of Mathematics IIM is in addition to the normal requirements of the B.E. plan.

Note: the B.Fin. degree requirement that students take ECON 1008 Business Data Analysis I or STATS 1000 Statistical Practice I (3 units) will be considered satisfied by students taking C&ENVENG ENG 1003 Engineering Modelling & Analysis I at Level I and APP MTH 2010 Differential Equations & Statistical Methods (Civil)at Level II.

Second Year (26 units)

ACCTING 1002 Accounting for Decision Makers I	3
APP MTH 2010 Differential Equations & Statistical Methods (Civil)	3
C&ENVENG 2006 Geotechnical Engineering II	2
C&ENVENG 2014 Engineering Modelling & Analysis II	2
C&ENVENG 2015 Construction & Surveying	2
C&ENVENG 2026 Environmental Engineering II	2
C&ENVENG 2033 Water Engineering II S1	2
C&ENVENG 2035 Water Engineering II S2	2
C&ENVENG 2036 Strength of Materials IIE	2
ENV BIOL 2005 Plant Ecology E	3
FINANCE 1000 International Financial Institutions and Markets I	3

Third Year (24 units)

C&ENVENG 2032 Structural Design IIA	2
C&ENVENG 3009 Environmental Engineering and Design III	2
C&ENVENG 3012 Geotechnical Engineering Design III	3
C&ENVENG 3013 Water Engineering and Design IIIA	2
C&ENVENG 3014 Water Engineering and Design IIIB	2
CORPFIN 2006 Business Finance II	4
ECON 2006 Economic & Financial Data Analysis II	4
ECON 2012 Financial Economics II	4

Fourth Year (23 units)

C&ENVENG 3008 Engineering Modelling and Analysis III	2
CHEM ENG 3011 Transport Process in the Environment	2

and courses to the value of at least 3 units from the following:

ENV BIOL 3015 Ecosystem Modelling for Environmental Management III	3
or	
Level II or III courses offered by the School of Mathematical Sciences	3

Plus at least 16 units of Level III Finance courses chosen from those listed in Academic Program Rule 4.9.1 of the degree of Bachelor of Finance including:

CORPFIN 3009 Portfolio Theory and Management III	4
and either	
APP MTH 3011 Financial Modelling Techniques III	4
or	
CORPFIN 3013 Options, Futures & Risk Management III	4

Fifth Year (24 units)

C&ENVENG 4005A/B Environmental Research Project N #	6
C&ENVENG 4034 Civil Engineering Management IV N	3
C&ENVENG 4037 Introduction to Environmental Law N	3
Plus at least 12 units of Level IV Engineering Elective courses listed above	12

Students who are not selected for Honours will be required to complete two additional final year specialisation courses instead of the Research Project.

6.5.5 Civil and Structural Engineering

Candidates are required to complete satisfactorily courses to the value of 24 units at each of Levels I, II, III and IV.

Level I

C&ENVENG 1000 Engineering Planning and Design	2
C&ENVENG 1001 Statics	2
C&ENVENG 1002 Civil and Environmental Engineering I	2
C&ENVENG 1003 Engineering Modelling and Analysis I	2
CHEM ENG 1003 Materials I	2
MECH ENG 1000 Dynamics	2
MATHS 1011 Mathematics IA	3
MATHS 1012 Mathematics IB	3

and courses to the value of 6 units from the following:

CHEM 1100 Chemistry IA	3
and	
CHEM 1200 Chemistry IB	3
or	
PHYSICS 1100 Physics IA	3
and	
PHYSICS 1100 Physics IA	3

or two of:

CHEM 1100 Chemistry IA	3
ENV BIOL 1002Environmental Biology I	3
PHYSICS 1003 Physics IHE	3

Level II

APP MTH 2010 Differential Equations & Statistical Methods (Civil)	3
C&ENVENG 2006 Geotechnical Engineering II	2
C&ENVENG 2014 Engineering Modelling and Analysis II	2
C&ENVENG 2015 Construction and Surveying	2
C&ENVENG 2025 Strength of Materials IIA	3
C&ENVENG 2026 Environmental Engineering II	2
C&ENVENG 2032 Structural Design IIA	2
C&ENVENG 2033 Water Engineering II S1	2
C&ENVENG 2034 Structural Design IIB	2
C&ENVENG 2035 Water Engineering II S2	2
GEOLOGY 2005 Geology for Engineers	2

Note: students undertaking the direct entry B.E.(Civil & Structural)/ B.Ma. & Comp. Sc. combined program are advised to take the courses APP MTH 2000 Differential Equations and Fourier Series and STATS 2004 Laplace Transforms and Probability and Statistical Methods in lieu of APP MTH 2010 Differential Equations and Statistical Methods (Civil).

Level III

C&ENVENG 3001 Structural Mechanics IIIA	3
C&ENVENG 3003 Environmental Engineering III	2
C&ENVENG 3005 Structural Design (Concrete)	3
C&ENVENG 3007 Structural Design III (Steel)	3
C&ENVENG 3008 Engineering Modelling and Analysis III	2
C&ENVENG 3011 Engineering Management & Planning	2
C&ENVENG 3012 Geotechnical Engineering Design III	3
C&ENVENG 3013 Water Engineering and Design IIIA	2
C&ENVENG 3014 Water Engineering and Design IIIB	2
either	
C&ENVENG 3015 Analysis & Design of Structures (International)*	2
or	
C&ENVENG 3000 Engineering Communication ESL (C)**	2
or	
CHEM ENG 3011 Transport Processes in the Environment	2
or	
Level II courses offered by the School of Mathematical Sciences to the value of 2 units	2

* available only to international students who have not studied Levels I & II at the University of Adelaide.

** available only to students whose native language is not English; may be presented in lieu of 2 units of elective courses at Level III

Level IV

C&ENVENG 4003A/B Civil Engineering Research Project N #	6
C&ENVENG 4034 Civil Engineering Management IV N	3
Elective courses to the value of 15 units	15

The elective courses offered by the School in any one year will depend on staff availability and will be chosen from the following:

Group I: Structural Engineering

C&ENVENG 4066 Design of Composite Structures	3
C&ENVENG 4068 Computer Methods of Structural Analysis and Design	3
C&ENVENG 4069 Design of Concrete Structures	3
C&ENVENG 4070 Earthquake Engineering and Design	3
C&ENVENG 4071 Special Topics in Structural Engineering	3
C&ENVENG 4094 Fundamental Steel Design	3

Group II: Water Engineering

C&ENVENG 4072 Advanced Engineering Hydrology and Design	3
C&ENVENG 4073 Advanced Water Distribution Systems and Design	3
C&ENVENG 4075 Advanced Water Resources Management and Design	3
C&ENVENG 4076 Advanced Water Resources Planning and Design	3
C&ENVENG 4077 Coastal Engineering and Design	3
C&ENVENG 4078 Special Topics in Water Engineering IV N	3

Group III: Geotechnical Engineering

C&ENVENG 4079 Advanced Foundation Engineering and Design	3
C&ENVENG 4080 Geotechnical Modelling and Design	3
C&ENVENG 4081 Footing Design and Soil Variability	3
C&ENVENG 4082 Special Topics in Geotechnical Engineering IV N	3

Group IV: Management and Planning

C&ENVENG 4084 Special Topics in Management and Planning IV N	3
C&ENVENG 4085 Traffic Engineering and Design	3

Group V: Environmental Engineering

C&ENVENG 4086 Environmental Auditing and Design	3
C&ENVENG 4087 Environmental Processes, Modelling and Design	3

C&ENVENG 4088 Groundwater Resources, Contamination and Design 3

C&ENVENG 4089 Numerical Methods in Environmental Engineering 3

C&ENVENG 4090 Special Topics in Environmental Engineering IV N 3

C&ENVENG 4091 Waste Management Analysis & Design 3

C&ENVENG 4092 Wastewater Engineering and Design 3

Students who are not selected for Honours will be required to complete two additional final year specialisation courses instead of the Research Project.

Students must take a total of five electives, according to course availability, and should take at least two courses from the one group. The remaining courses to make up 15 units may be chosen from any group. Alternatively, students may take up to 3 units of Level II or III courses offered by the School of Mathematical Sciences. In special circumstances other combinations of elective courses may be acceptable but must be approved by the Head of the School of Civil and Environmental Engineering

Students may also, with the approval of the Head of School, replace one or more elective courses with appropriate courses offered by other schools within the University of Adelaide.

Law courses*

LAW 1001 Introduction to Australian Law 4

LAW 1002 Law of Torts 4

LAW 1003 Law of Contract 4

LAW 1004 Law of Crime 4

LAW 1005 Property Law 4

Law electives 4

*available only to students who have been admitted to the LL.B. program. Students may present these courses towards their Bachelor of Engineering in accordance with the scheme of study set out in note 1 below.

Notes:

1 Law Studies within the B.E.(Civil & Structural) program

To qualify for the award of the degree of B.E.(Civil & Structural) and the degree of LL.B, candidates are required to complete satisfactorily courses below:

First Year (26 units)

C&ENVENG 1000 Engineering Planning and Design 2

C&ENVENG 1001 Statics 2

C&ENVENG 1002 Civil & Environmental Engineering I 2

C&ENVENG 1003 Engineering Modelling and Analysis I 2

CHEM 1100 Chemistry IA 3

LAW 1001 Introduction to Australian Law 4

MECH ENG 1000 Dynamics 2

either

MATHS 1011 Mathematics IA * 3

or

MATHS 1013 Mathematics IMA * 3

and either

MATHS 1012 Mathematics IB * 3

or

MATHS 1014 Mathematics IMB * 3

either

ENV BIOL 1002 Environmental Biology I 3

or

PHYSICS 1003 Physics 1003 IHE 3

* Students who have not taken SACE Stage 2 Specialist Maths will be required to take MATHS 1013/1014 Mathematics IMA/B in lieu of MATHS 1011/1012 Mathematics IA/B. Such students must also take the Level II course MATHS 2004 Mathematics IIM. The satisfactory completion of Mathematics IIM is in addition to the normal requirements of the B.E. plan.

Second Year (26 units)

APP MTH 2010 Differential Equations & Statistical Methods (Civil) 3

C&ENVENG 2006 Geotechnical Engineering II 2

C&ENVENG 2014 Engineering Modelling and Analysis II 2

C&ENVENG 2025 Strength of Materials IIA 3

C&ENVENG 2032 Structural Design IIA 2

C&ENVENG 2033 Water Engineering II S1 2

C&ENVENG 2034 Structural Design IIB 2

C&ENVENG 2035 Water Engineering II S2 2

LAW 1002 Law of Torts 4

LAW 1005 Property Law 4

Third Year (24 units)

C&ENVENG 3001 Structural Mechanics IIIA 3

C&ENVENG 3005 Structural Design (Concrete) 3

C&ENVENG 3007 Structural Design III (Steel) 3

C&ENVENG 3012 Geotechnical Engineering Design III 3

C&ENVENG 3013 Water Engineering and Design IIIA 2

C&ENVENG 3014 Water Engineering and Design IIIB 2

LAW 1003 Law of Contract 4

Law electives* 4

* Students should consult the Law School at enrolment for advice on electives offered.

Fourth Year (25 units)

C&ENVENG 4003A/B Civil Engineering Research Project N # 6

C&ENVENG 4034 Civil Engineering Management IV N 3

LAW 1005 Property Law 4

Plus 12 units of Engineering Elective courses 12

Students who are not selected for Honours will be required to complete two additional final year elective courses instead of the Research Project.

Note: to complete the B.E.(Civil & Structural) and LL.B. degree programs in minimum time, candidates are required to take all these courses even though it involves an overload.

Later Years

In accordance with the Academic Program Rules for the LL.B. Please refer to the relevant section in this Calendar.

2 Direct entry B.E.(Civil & Structural)/B.Sc.
(see also Academic Program Rule 6.4.2).

To qualify for both the award of the degree of B.E.(Civil & Structural) and the degree of B.Sc., candidates are required to complete satisfactorily courses as indicated below:

First Year (26 units)

C&ENVENG 1000 Engineering Planning and Design	2
C&ENVENG 1001 Statics	2
C&ENVENG 1002 Civil & Environmental Engineering I	2
C&ENVENG 1003 Engineering Modelling and Analysis I	2
CHEM 1100 Chemistry IA	3
CHEM 1200 Chemistry IB	3
either	
MATHS 1011 Mathematics IA *	3
or	
MATHS 1013 Mathematics IMA *	3
MATHS 1012 Mathematics IB *	3
or	
MATHS 1014 Mathematics IMB *	3
and either #	
BIOLOGY 1101 Biology I: Molecules, Genes and Cells A **	3
or	
BIOLOGY 1102 Biology I: Molecules, Genes and Cells B **	3
and	
BIOLOGY 1202 Biology I: Organisms	3
or	
GEOLOGY 1100 Earth's Interior I	3
and	
GEOLOGY 1200 Earth's Environment I	3
or	
PHYSICS 1100 Physics IA	3
and	
PHYSICS 1200 Physics IB	3

choice of courses may be restricted by timetabling - students should consult the school at enrolment.

* Students who have not taken SACE Stage 2 Specialist Maths will be required to take MATHS 1013/1014 Mathematics IMA/B in lieu of MATHS 1011/1012 Mathematics IA/B. Such students must also take the Level II course MATHS 2004 Mathematics IIM. The satisfactory completion of Mathematics IIM is in addition to the normal requirements of the B.E. plan.

** Students who have not taken SACE Stage 2 Biology will be required to take BIOLOGY 1101 Biology I: Molecules, Genes and Cells A in lieu of BIOLOGY 1102 Biology I: Molecules, Genes and Cells B.

Second Year (25 units)

APP MTH 2000 Differential Equations and Fourier Series	2
APP MTH 2002 Vector Analysis and Complex Analysis	2
C&ENVENG 2006 Geotechnical Engineering II	2
C&ENVENG 2014 Engineering Modelling and Analysis II	2
C&ENVENG 2015 Construction and Surveying	2
C&ENVENG 2025 Strength of Materials IIA #	3
C&ENVENG 2026 Environmental Engineering II	2
C&ENVENG 2032 Structural Design IIA	2
C&ENVENG 2033 Water Engineering II S1	2
C&ENVENG 2034 Structural Design IIB	2
C&ENVENG 2035 Water Engineering II S2	2
STATS 2004 Laplace Transforms and Probability and Statistical Methods	2

#Students may avoid a 1 unit overload in semester 1 by taking C&ENVENG 2036 Strength of Materials IIE (2 units) instead of C&ENVENG 2025 Strength of Materials IIA, but the latter is strongly preferred by the School.

Third Year (24 units)

C&ENVENG 3001 Structural Mechanics IIIA	3
C&ENVENG 3005 Structural Design (Concrete)	3
C&ENVENG 3007 Structural Design III (Steel)	3
C&ENVENG 3012 Geotechnical Engineering Design III	3
C&ENVENG 3013 Water Engineering and Design IIIA	2
C&ENVENG 3014 Water Engineering and Design IIIB	2
Level II Science courses	8

Fourth Year (24 units)

Level III Science courses	24

Fifth Year (24 units)

C&ENVENG 4003A/B Civil Engineering Research Project N #	6
C&ENVENG 4034 Civil Engineering Management IV N	3
Level IV elective courses to the value of at least 15 units	15

Students who are not selected for Honours will be required to complete two additional final year specialisation courses instead of the Research Project.

3 Direct Entry B.E.(Civil & Structural)/ B.Ma. & Comp. Sc.

Refer to Academic Program Rule 6.4.3 for the requirements of this program.

4 Arts studies combined with the B.E.(Civil & Structural))

(see also section 6.4.4 of these Rules)

To qualify for the award of the degrees of B.E.(Civil & Structural) and B.A., candidates are required to complete courses listed below:

To satisfy the requirements of the Arts component, students must undertake 32 units of Arts courses, including an approved major sequence , comprising 6 units at Level 1, 8 units at level II, 12 units at Level III, plus another 6 units at any Level.

Engineering Component

First Year (20 units)

C&ENVENG 1000 Engineering Planning and Design	2
C&ENVENG 1001 Statics	2
C&ENVENG 1002 Civil and Environmental Engineering I	2
C&ENVENG 1003 Engineering Modelling and Analysis I	2
either	
MATHS 1011 Mathematics IA *	3
or	
MATHS 1013 Mathematics IMA *	3
and either	
MATHS 1012 Mathematics IB *	3
or	
MATHS 1014 Mathematics IMB *	3
Courses to the value of 6 units form the following:	
CHEM 1100 Chemistry IA	3
and	
CHEM 1200 Chemistry IB	3
or	
PHYSICS 1100 Physics IA	3
and	
PHYSICS 1200 Physics IB	3
or two of:	
CHEM 1100 Chemistry IA	3
ENV BIOL 1002 Environmental Biology I	3
PHYSICS 1003 Physics IHE	3

* Students who have not taken SACE Stage 2 Specialist Maths will be required to take MATHS 1013/1014 Mathematics IMA/B in lieu of MATHS 1011/1012 Mathematics IA/B. Such students must also take the Level II course MATHS 2004 Mathematics IIM. The satisfactory completion of Mathematics IIM is in addition to the normal requirements of the B.E. plan.

Second Year (24 units)

APP MTH 2010 Differential Equations & Statistical Methods (Civil)	3
C&ENVENG 2006 Geotechnical Engineering II	2
C&ENVENG 2014 Engineering Modelling and Analysis II	2
C&ENVENG 2015 Construction and Surveying	2
C&ENVENG 2025 Strength of Materials IIA	2
C&ENVENG 2026 Environmental Engineering II	2
C&ENVENG 2032 Structural Design IIA	2
C&ENVENG 2033 Water Engineering II S1	2
C&ENVENG 2034 Structural Design IIB	2
C&ENVENG 2035 Water Engineering II S2	2
GEOLOGY 2005 Geology for Engineers	2

Third Year (24 units)

C&ENVENG 3001 Structural Mechanics IIIA	3
C&ENVENG 3003 Environmental Engineering III	2
C&ENVENG 3005 Structural Design III (Concrete)	3
C&ENVENG 3007 Structural Design III (Steel)	3
C&ENVENG 3011 Engineering Management and Planning	2
C&ENVENG 3012 Geotechnical Engineering Design III	3
C&ENVENG 3013 Water Engineering and Design IIIA	2
C&ENVENG 3014 Water Engineering and Design IIIB	2
either	
C&ENVENG 3000 Engineering Communication ESL (C)*	2
or	
CHEM ENG 3011 Transport Processes in the Environment	2
or	
Level II courses offered by the School of Mathematical Sciences	2

* Available only to students whose native language is not English.

Fourth Year (24 units)

C&ENVENG 4003A/B Civil Engineering Research Project N #	6
C&ENVENG 4034 Civil Engineering Management IV N	3
Civil Engineering elective courses to the value of at least 15 units	15

Students who are not selected for Honours will be required to complete two additional final year elective courses instead of the Research Project.

5 Program of study for the direct entry B.E.(Civil & Structural)/B.Ec. program

To qualify for both the award of the degree of B.E.(Civil & Structural) and the degree of B.Ec., candidates are required to complete satisfactorily courses listed below:

First Year (25 units)

C&ENVENG 1000 Engineering Planning and Design	2
C&ENVENG 1001 Statics	2
C&ENVENG 1002 Civil and Environmental Engineering I	2
C&ENVENG 1003 Engineering Modelling and Analysis I	2
ECON 1000 Principles of Macroeconomics I	3
ECON 1004 Principles of Microeconomics I	3
MECH ENG 1000 Dynamics	2
either	
MATHS 1011 Mathematics IA *	3
or	
MATHS 1013 Mathematics IMA *	3
and either	
MATHS 1012 Mathematics IB *	3
or	
MATHS 1014 Mathematics IMB *	3

plus either

CHEM 1100 Chemistry IA	3
or	
PHYSICS 1003 Physics IHE	3

* Students who have not taken SACE Stage 2 Specialist Maths will be required to take MATHS 1013/1014 Mathematics IMA/B in lieu of MATHS 1011/1012 Mathematics IA/B. Such students must also take the Level II course MATHS 2004 Mathematics IIM. The satisfactory completion of Mathematics IIM is in addition to the normal requirements of the B.E. plan.

Note: the B.Ec. degree requirement that students take ECON 1008 Business Data Analysis I (3 units) will be considered satisfied by students taking C&ENVENG 1003 Engineering Modelling & Analysis I at Level I and APP MTH 2010 Differential Equations & Statistical Methods (Civil).

Second Year (24 units)

APP MTH 2010 Differential Equations & Statistical Methods (Civil)	3
C&ENVENG 2006 Geotechnical Engineering II	2
C&ENVENG 2014 Engineering Modelling and Analysis II	2
C&ENVENG 2015 Construction and Surveying	2
C&ENVENG 2025 Strength of Materials IIA	2
C&ENVENG 2026 Environmental Engineering II	2
C&ENVENG 2032 Structural Design IIA	2
C&ENVENG 2033 Water Engineering II S1	2
C&ENVENG 2034 Structural Design IIB	2
C&ENVENG 2035 Water Engineering II S2	2
GEOLOGY 2005 Geology for Engineers	2

Third Year (26 units)

C&ENVENG 3001 Structural Mechanics IIIA	3
C&ENVENG 3005 Structural Design (Concrete)	3
C&ENVENG 3007 Structural Design III (Steel)	3
C&ENVENG 3008 Engineering Modelling and Analysis III	2
C&ENVENG 3012 Geotechnical Engineering Design III	3
C&ENVENG 3013 Water Engineering and Design IIIA	2
C&ENVENG 3014 Water Engineering and Design IIIB	2
ECON 2009 Consumers, Firms and Markets II	4
ECON 2011 Macroeconomic Theory and Policy II	4

Fourth Year (24 units)

COMMGMT 2007 Organisational Behaviour II	4
ECON 2006 Economic & Financial Data Analysis II	4
Plus at least 16 units of Level III Economics courses chosen from those listed in Academic Program Rule 4.7.1 of the degree of Bachelor of Economics	16

Note: B.Ec. students currently must take one Economic History course to qualify for the B.Ec. degree. Please refer to the Academic Program Rules of the B.Ec. degree.

Fifth Year (24 units)

C&ENVENG 4003A/B Civil Engineering Research Project N #	6
C&ENVENG 4034 Civil Engineering Management IV N	3
15 units of Level IV Engineering elective courses	15

Students who are not selected for Honours will be required to complete two additional final year elective courses instead of the Research Project.

6 Program of study for the direct entry B.E.(Civil & Structural)/B.Fin. program

To qualify for both the award of the degree of B.E.(Civil & Structural) and the degree of B.Fin, candidates are required to complete satisfactorily courses listed below

First Year (25 units)

C&ENVENG 1000 Engineering Planning and Design	2
C&ENVENG 1001 Statics	2
C&ENVENG 1002 Civil and Environmental Engineering I	2
C&ENVENG 1003 Engineering Modelling and Analysis I	2
ECON 1000 Principles of Macroeconomics I	3
ECON 1004 Principles of Microeconomics I	3
MECH ENG 1000 Dynamics	2
either	
MATHS 1011 Mathematics IA *	3
or	
MATHS 1013 Mathematics IMA *	3
and either	
MATHS 1012 Mathematics IB *	3
or	
MATHS 1014 Mathematics IMB *	3
plus either	
CHEM 1100 Chemistry IA	3
or	
PHYSICS 1003 Physics IHE	3

* Students who have not taken SACE Stage 2 Specialist Maths will be required to take MATHS 1013/1014 Mathematics IMA/B in lieu of MATHS 1011/1012 Mathematics IA/B. Such students must also take the Level II course MATHS 2004 Mathematics IIM. The satisfactory completion of Mathematics IIM is in addition to the normal requirements of the B.E. plan.

Note: the B.Fin. degree requirement that students take ECON 1008 Business Data Analysis I or STATS 1000 Statistical Practice I (3 units) will be considered satisfied by students taking C&ENVENG 1003 Engineering Modelling & Analysis I at Level I and APP MTH 2010 Differential Equations & Statistical Methods (Civil) at Level II.

Second Year (26 units)

ACCTING 1002 Accounting for Decision Makers I	3
APP MTH 2010 Differential Equations & Statistical Methods (Civil)	3
C&ENVENG 2006 Geotechnical Engineering II	2

C&ENVENG 2014 Engineering Modelling and Analysis II	2
C&ENVENG 2015 Construction and Surveying	2
C&ENVENG 2025 Strength of Materials IIA	2
C&ENVENG 2032 Structural Design IIA	2
C&ENVENG 2033 Water Engineering II S1	2
C&ENVENG 2034 Structural Design IIB	2
C&ENVENG 2035 Water Engineering II S2	2
FINANCE 1000 International Financial Institutions and Markets I	3
Third Year (23 units)	
C&ENVENG 2026 Environmental Engineering II	2
C&ENVENG 3001 Structural Mechanics IIIA	3
C&ENVENG 3005 Structural Design (Concrete)	3
C&ENVENG 3007 Structural Design III (Steel)	3
CORPFIN 2006 Business Finance II	4
ECON 2006 Economic and Financial Data Analysis II	4
ECON 2012 Financial Economics II	4
Fourth Year (25 units)	
C&ENVENG 3008 Engineering Modelling and Analysis III	2
C&ENVENG 3012 Geotechnical Engineering Design III	3
C&ENVENG 3013 Water Engineering and Design IIIA	2
C&ENVENG 3014 Water Engineering and Design IIIB	2
Plus at least 16 units of Level III Finance courses chosen from those listed in Academic Program Rule 4.9.1 of the degree of Bachelor of Finance including:	
CORPFIN 3009 Portfolio Theory and Management III	4
and either	
APP MTH 3011 Financial Modelling Techniques III	4
or	
CORPFIN 3013 Options, Futures and Risk Management III	4
Fifth Year (24 units)	
C&ENVENG 4003A/B Civil Engineering Research Project N #	6
C&ENVENG 4034 Civil Engineering Management IV N	3
Plus 15 units of Level IV Engineering Elective courses listed above	15

Students who are not selected for Honours will be required to complete two additional final year elective courses instead of the Research Project.

7 Program of study for the direct entry B.E.(Civil & Structural)/ B.E.(Civil & Environmental) program

To qualify for both the award of the degree of B.E.(Civil & Structural) and B.E.(Civil & Environmental), candidates are required to complete satisfactorily courses listed below

First Year (24 units)	
C&ENVENG 1000 Engineering Planning and Design	2
C&ENVENG 1001 Statics	2
C&ENVENG 1002 Civil and Environmental Engineering I	2
C&ENVENG 1003 Engineering Modelling & Analysis I	2
CHEM 1100 Chemistry IA	3
CHEM ENG 1000 Process Systems	2
ENV BIOL 1002 Environmental Biology I	3
MECH ENG 1000 Dynamics	2
either	
MATHS 1011 Mathematics IA *	3
or	
MATHS 1013 Mathematics IMA *	3
and either	
MATHS 1012 Mathematics IB *	3
or	
MATHS 1014 Mathematics IMB *	3

* Students who have not taken SACE Stage 2 Specialist Maths will be required to take MATHS 1013/1014 Mathematics IMA/B in lieu of MATHS 1011/1012 Mathematics IA/B. Such students must also take the Level II course MATHS 2004 Mathematics IIM. The satisfactory completion of Mathematics IIM is in addition to the normal requirements of the B.E. plan.

Second Year (24 units)	
APP MTH 2010 Differential Equations & Statistical Methods (Civil)	3
C&ENVENG 2006 Geotechnical Engineering II	2
C&ENVENG 2014 Engineering Modelling and Analysis II	2
C&ENVENG 2015 Construction and Surveying	2
C&ENVENG 2025 Strength of Materials IIA	2
C&ENVENG 2026 Environmental Engineering II	2
C&ENVENG 2032 Structural Design IIA	2
C&ENVENG 2033 Water Engineering II S1	2
C&ENVENG 2034 Structural Design IIB	2
C&ENVENG 2035 Water Engineering II S2	2
GEOLOGY 2005 Geology for Engineers	2
Third Year (25 units)	
C&ENVENG 3001 Structural Mechanics IIIA	3
C&ENVENG 3005 Structural Design (Concrete)	3
C&ENVENG 3007 Structural Design III (Steel)	3
C&ENVENG 3008 Engineering Modelling and Analysis III	2
C&ENVENG 3009 Environmental Engineering and Design III	2
C&ENVENG 3011 Engineering Management and Planning	2
C&ENVENG 3012 Geotechnical Engineering Design III	3
C&ENVENG 3013 Water Engineering and Design IIIA	2
C&ENVENG 3014 Water Engineering and Design IIIB	2
CHEM ENG 3011 Transport Processes in the Environment	2
Fourth Year (23 units)	
C&ENVENG 3067 Environmental Science and Policy	2
C&ENVENG 4034 Civil Engineering Management IV N	3
C&ENVENG 4035 Civil Engineering Research Project A*	6
C&ENVENG 4036 Civil Engineering Research Project B*	6

ECON 3018 Environmental Economics EIII	3
ENV BIOL 2005 Plant Ecology E	3
Specialisation courses	3
Courses to the value of at least 3 units chosen from:	
ENV BIOL 3015 Ecosystem Modelling for Environmental Management III	3
GEOLOGY 3011 Environmental Geology IIN	2
Level II Mathematics courses	4
Fifth Year (24 units)	
C&ENVENG 4005A/B Environmental Research Project N #	6
C&ENVENG 4037 Introduction to Environmental Law N	3
Plus 15 units of Level IV Engineering Specialisation courses*	15

* At least 2 of the specialisation courses must be in the areas of structural and/or geotechnical engineering and at least 2 in the area of water and/or environmental engineering

The Civil Engineering Research Project must be in the area of structural and/or geotechnical engineering while the Environmental Research Project must be in the area of water and/or environmental engineering.

6.5.6 Computer Systems Engineering

Candidates are required to complete satisfactorily courses to the value of 24 units at each of Levels I, II, III and IV:

Level I

COMP SCI 1008 Computer Science IA	3
COMP SCI 1009 Computer Science IB	3
ELEC ENG 1006 Electrical Engineering I	3
ELEC ENG 1007 Engineering Planning, Design & Communication	3
MATHS 1011 Mathematics IA	3
MATHS 1012 Mathematics IB	3
PHYSICS 1100 Physics IA	3
PHYSICS 1200 Physics IB	3

Level II

APP MTH 2000 Differential Equations and Fourier Series	2
APP MTH 2002 Vector Analysis and Complex Analysis	2
COMP SCI 2000 Computer Systems	3
COMP SCI 2004 Data Structures and Algorithms	3
ELEC ENG 2007 Signals and Systems	3
ELEC ENG 2008 Electronics II	3
ELEC ENG 2009 Engineering Electromagnetics	3
ELEC ENG 2010A/B Practical Electronic Design II	3
STATS 2004 Laplace Transforms and Probability and Statistical Methods	2

Level III

COMP SCI 3006 Software Engineering and Project	3
ELEC ENG 3012 Engineering Communication ESL (E) *	2
ELEC ENG 3015 Communications, Signals & Systems	3
ELEC ENG 3016 Control III	3
ELEC ENG 3017 Digital Electronics	3
ELEC ENG 3018 RF Engineering III	3
ELEC ENG 3019A/B Practical Electrical & Electronic Design III	3
ELEC ENG 3020 Embedded Computer Systems	3
ELEC ENG 3022 Real Time Systems IV	3

*Available only to students whose native language is not English. May be presented in lieu of a 2 unit elective at Level IV.

Level IV

COMP SCI 3001 Computer Networks and Applications	3
ELEC ENG 4035 Communications IV	2
ELEC ENG 4037 Digital Microelectronics	2
ELEC ENG 4036A/B Design Project #	6
or	
ELEC ENG 4039A/B Honours Project #	6
ELEC ENG 4038 Financial Management for Engineers	2
ELEC ENG 4040 Management and Professional Practice for Engineers	2
STATS 4001 Reliability and Quality Control	2
Elective courses to the value of 5 units selected from the following list	5

Electives*

APP MTH 3016 Telecommunications Systems Modelling III**	3
APP MTH 4012 Communication Network Design	2
COMP SCI 3004 Operating Systems	3
COMP SCI 3005 Computer Architecture	3
ELEC ENG 3021 Electric Energy Systems	3
ELEC ENG 4004 Electrical Engineering Research	2
ELEC ENG 4032 Advanced Electromagnetics	2
ELEC ENG 4033 Advanced Telecommunications	2
ELEC ENG 4034 Analog Microelectronics	2
ELEC ENG 4041 Optical Communication Engineering	2
ELEC ENG 4042 Power Electronics and Drive Systems	2
ELEC ENG 4043 Power Quality and Condition Monitoring	2
ELEC ENG 4044 RF Engineering IV	2
ELEC ENG 4045 Signal Processing IV	2
ELEC ENG 4046 Telecommunications IV	2

ELEC ENG 4047 Topics in Electrical & Electronic Engineering	2
PURE MTH 3006 Coding and Cryptology III	2
PURE MTH 30018 Coding and Cryptology III (Extended)	2

Students accepted into the Honours stream will take Honours Project and other students will take Design Project.

* Not all courses are offered each year.

** may not be presented with APP MTH 3015 Stochastic Modelling for Telecommunications III.

Law courses*

LAW 1001 Introduction to Australian Law	4
LAW 1002 Law of Torts	4
LAW 1003 Law of Contract	4
LAW 1004 Law of Crime	4
LAW 1005 Property Law	4
Law electives	4

* available only to students who have been admitted to the LL.B. program. Students may present these courses towards their Bachelor of Engineering in accordance with the scheme of study set out in note 1 below.

Notes

1 Law Studies within the B.E.(Computer Systems) program

To qualify for the award of the degree of B.E.(Computer Systems) and the degree of LL.B., candidates are required to complete satisfactorily courses below

First Year (25 units)

COMP SCI 1008 Computer Science IA	3
COMP SCI 1009 Computer Science IB	3
ELEC ENG 1006 Electrical Engineering I	3
LAW 1001 Introduction to Australian Law	4
either	
MATHS 1011 Mathematics IA *	3
or	
MATHS 1013 Mathematics IMA *	3
and either	
MATHS 1012 Mathematics IB *	3
or	
MATHS 1014 Mathematics IMB *	3
PHYSICS 1100 Physics IA	3
PHYSICS 1200 Physics IB	3

* Students who have not taken SACE Stage 2 Specialist Maths will be required to take MATHS 1013/1014 Mathematics IMA/B in lieu of MATHS 1011/1012 Mathematics IA/B. Such students must also take the Level II course MATHS 2004 Mathematics IIM. The satisfactory completion of Mathematics IIM is in addition to the normal requirements of the B.E. plan

Second Year (23 units)

APP MTH 2000 Differential Equations and Fourier Series	2
APP MTH 2002 Vector Analysis and Complex Analysis	2
COMP SCI 2004 Data Structures and Algorithms	3
ELEC ENG 1007 Engineering Planning, Design & Communication	3
ELEC ENG 2007 Signals and Systems	3
LAW 1002 Law of Torts	4
LAW 1003 Law of Contract	4
STATS 2004 Laplace Transforms and Probability and Statistical Methods	2

Third Year (27 units)

COMP SCI 2000 Computer Systems	3
ELEC ENG 2008 Electronics II	3
ELEC ENG 2009 Engineering Electromagnetics	3
ELEC ENG 2010A/B Practical Electronic Design II	3
ELEC ENG 3015 Communications Signals and Systems	3
LAW 1004 Law of Crime	4
LAW 1005 Property Law	4
Law electives *	4

Fourth Year (27 units)

COMP SCI 3006 Software Engineering and Project	3
ELEC ENG 3016 Control III	3
ELEC ENG 3017 Digital Electronics	3
ELEC ENG 3018 RF Engineering III	3
ELEC ENG 3019A/B Practical Electrical & Electronic Design III	3
ELEC ENG 3020 Embedded Computer Systems	3
ELEC ENG 3022 Real Time Systems IV	3
Law Courses to the value of 6 units *	6

Fifth Year (25 units)

COMP SCI 3001 Computer Networks & Applications	3
ELEC ENG 4035 Communications IV	2
ELEC ENG 4036A/B Design Project#	6
or	
ELEC ENG 4039A/B Honours Project#	6
Law courses to the value of 14 units*	14

#Students accepted into the Honours stream will take Honours Project and other students will take Design Project.

* Students should consult the Law School at enrolment for advice on course selection.

Note: to complete the B.E.(Computer Systems) and LL.B. degree programs in minimum time, candidates are required to take all these courses even though it involves an overload.

Later Years

In accordance with the Academic Program Rules for the LL.B. Please refer to the relevant section in this Calendar.

2 Direct Entry B.E.(Computer Systems)/ B.Ma. & Comp. Sc.

Refer to Academic Program Rule 6.4.3 for the requirements of this program.

3 B.E./B.Ma. & Comp. Sc. - Later Year entry:

(a) A student who has completed Level III of the Computer Systems Engineering program, and who wishes concurrently to qualify for the degrees of B.E. and B.Ma. & Comp.Sc., may undertake one year of full-time study before proceeding to further studies within the Schools of Engineering. A student who wishes to do this is required to submit an application for admission to the Mathematical Sciences degree program through the South Australian Tertiary Admissions Centre. Students are also advised to consult the Dean or nominee to plan their program of studies.

(b) Level III and Level IV courses previously counted towards a degree of Bachelor of Mathematical and Computer Sciences may not be counted towards the degree of B.E. in Computer Systems Engineering. This may affect the course choice for the B.Ma. & Comp. Sc. degree.

4 Arts studies combined with the B.E.(Computer Systems)

(see also section 6.4.4 of these Rules)

To qualify for the award of the degrees of B.E.(Computer Systems) and B.A., candidates are required to complete satisfactorily the courses listed below:

First Year (24 units)

COMP SCI 1008 Computer Science IA	3
COMP SCI 1009 Computer Science IB	3
ELEC ENG 1006 Electrical Engineering I	3
ELEC ENG 1007 Engineering Planning, Design & Communication	3
either	
MATHS 1011 Mathematics IA *	3
or	
MATHS 1013 Mathematics IMA *	3
and either	
MATHS 1012 Mathematics IB *	3
or	
MATHS 1014 Mathematics IMB *	3
PHYSICS 1100 Physics IA	3
PHYSICS 1200 Physics IB	3

* Students who have not taken SACE Stage 2 Specialist Maths will be required to take MATHS 1013/1014 Mathematics IMA/B in lieu of MATHS 1011/1012 Mathematics IA/B. Such students must also take the Level II course MATHS 2004 Mathematics IIM. The satisfactory completion of Mathematics IIM is in addition to the normal requirements of the B.E. plan.

Second Year (24 units)

Level I Arts course(s) to the value of 6 units	6
APP MTH 2000 Differential Equations and Fourier Series	2
APP MTH 2002 Vector Analysis and Complex Analysis	2
COMP SCI 2000 Computer Systems	3
ELEC ENG 2007 Signals and Systems	3
ELEC ENG 2008 Electronics II	3
ELEC ENG 2010A/B Practical Electronic Design II	3
STATS 2004 Laplace Transforms and Probability and Statistical Methods	2

Third Year (23 units)

Level II Arts courses	8
COMP SCI 2004 Data Structures and Algorithms	3
ELEC ENG 2009 Engineering Electromagnetics	3
ELEC ENG 3015 Communications, Signals and Systems	3
ELEC ENG 3017 Digital Electronics	3
ELEC ENG 3020 Embedded Computer Systems	3

Fourth Year (23 units)

Level III Arts Courses	12
COMP SCI 3006 Software Engineering and Project	3
ELEC ENG 3018 RF Engineering III	3
ELEC ENG 3019A/B Practical Electrical & Electronic Design III	3
ELEC ENG 4040 Management and Professional Practice for Engineers	2

Fifth Year (25 units)

Arts Courses	6
COMP SCI 3001 Computer Networks and Applications	3
ELEC ENG 3016 Control III	3
ELEC ENG 3022 Real Time Systems IV	3
ELEC ENG 4035 Communications IV	2
ELEC ENG 4036A/B Design Project #	6
or	
ELEC ENG 4039A/B Honours Project #	6
ELEC ENG 4037 Digital Microelectronics	2

Students accepted into the Honours stream will take Honours Project and other student will take Design Project Level IV.

5 Program of study for the direct entry B.E.(Computer Systems)/B.Ec. program

To qualify for both the award of the degree of B.E.(Computer Systems) and the degree of B.Ec., candidates are required to complete satisfactorily courses listed below::

First Year (24 units)

COMP SCI 1008 Computer Science IA	3
COMP SCI 1009 Computer Science IB	3
ECON 1004 Principles of Microeconomics I	3
ELEC ENG 1006 Electrical Engineering I	3
either	
MATHS 1011 Mathematics IA *	3
or	
MATHS 1013 Mathematics IMA *	3
and either	
MATHS 1012 Mathematics IB *	3

or

MATHS 1014 Mathematics IMB * 3

PHYSICS 1100 Physics IA 3

PHYSICS 1200 Physics IB 3

* Students who have not taken SACE Stage 2 Specialist Maths will be required to take MATHS 1013/1014 Mathematics IMA/B in lieu of MATHS 1011/1012 Mathematics IA/B. Such students must also take the Level II course MATHS 2004 Mathematics IIM. The satisfactory completion of Mathematics IIM is in addition to the normal requirements of the B.E. plan.

Note: The B.Ec. degree requirement that students take ECON 1008 Business Data Analysis I (3 units) will be considered satisfied by students taking COMP SCI 1008/9 Computer Science I A/B at Level I and STATS 2004 Laplace Transforms and Probability and Statistical Methods at Level II.

Second Year (25 units)

APP MTH 2000 Differential Equations and Fourier Series 2

APP MTH 2002 Vector Analysis and Complex Analysis 2

COMP SCI 2004 Data Structures and Algorithms 3

ECON 1000 Principles of Macroeconomics I 3

ECON 2006 Economic & Financial Data Analysis II 4

ELEC ENG 2007 Signals and Systems 3

ELEC ENG 2008 Electronics II 3

ELEC ENG 2010A/B Practical Electronic Design II 3

STATS 2004 Laplace Transforms and Probability and Statistical Methods 2

Third Year (26 units)

COMP SCI 2000 Computer Systems 3

ECON 2009 Consumers, Firms and Markets II 4

ECON 2011 Macroeconomic Theory and Policy II 4

ELEC ENG 2009 Engineering Electromagnetics 3

ELEC ENG 3015 Communications, Signals and Systems 3

ELEC ENG 3016 Control III 3

ELEC ENG 3017 Digital Electronics 3

ELEC ENG 3020 Embedded Computer Systems 3

Fourth Year (24 units)

COMMGMT 2007 Organisational Behaviour II 4

COMP SCI 3006 Software Engineering and Project 3

ELEC ENG 3018 RF Engineering III 3

ELEC ENG 3019A/B Practical Electrical & Electronic Design III 3

ELEC ENG 3022 Real Time Systems IV 3

Plus at least 8 units of Level III Economics courses chosen from those listed in Academic Program Rule 4.7.1 of the degree of Bachelor of Economics 8

Note: B.Ec. students currently must take an Economic History course to qualify for the B.Ec. degree. Please refer to the Academic Program Rules of the B.Ec. degree.

Fifth Year (25 units)

COMP SCI 3001 Computer Networks and Applications 3

ELEC ENG 4035 Communications IV 2

ELEC ENG 4036A/B Design Project # 6

or

ELEC ENG 4039A/B Honours Project# 6

ELEC ENG 4037 Digital Microelectronics 2

Plus at least 12 units of Level III Economics courses chosen from those listed in Academic Program Rule 4.7.1 of the degree of Bachelor of Economics 12

Students accepted into the Honours stream will take Honours Project and other student will take Design Project.

6 Program of study for the direct entry B.E.(Computer Systems)/B.Fin. program

To qualify for both the award of the degree of B.E.(Computer Systems) and the degree of B.Fin., candidates are required to complete satisfactorily courses listed below:

First Year (24 units)

COMP SCI 1008 Computer Science IA 3

COMP SCI 1009 Computer Science IB 3

ECON 1004 Principles of Microeconomics I 3

ELEC ENG 1006 Electrical Engineering I 3

either

MATHS 1011 Mathematics IA * 3

or

MATHS 1013 Mathematics IMA * 3

and either

MATHS 1012 Mathematics IB * 3

or

MATHS 1014 Mathematics IMB * 3

PHYSICS 1100 Physics IA 3

PHYSICS 1200 Physics IB 3

* Students who have not taken SACE Stage 2 Specialist Maths will be required to take MATHS 1013/1014 Mathematics IMA/B in lieu of MATHS 1011/1012 Mathematics IA/B. Such students must also take the Level II course MATHS 2004 Mathematics IIM. The satisfactory completion of Mathematics IIM is in addition to the normal requirements of the B.E. plan.

Note: The B.Fin. degree requirement that students take ECON 1008 Business Data Analysis I or STATS 1000 Statistical Practice I (3 units) will be considered satisfied by students taking COMP SCI 1008/9 Computer Science I A/B at Level I and STATS 2004 Laplace Transforms and Probability and Statistical Methods at Level II.

Second Year (24 units)

APP MTH 2000 Differential Equations and Fourier Series 2

APP MTH 2002 Vector Analysis and Complex Analysis 2

COMP SCI 2004 Data Structures and Algorithms 3

ECON 1000 Principles of Macroeconomics I 3

ELEC ENG 2007 Signals and Systems 3

ELEC ENG 2008 Electronics II 3

ELEC ENG 2010A/B Practical Electronic Design II	3
FINANCE 1000 International Financial Institutions and Markets I	3
STATS 2004 Laplace Transforms and Probability and Statistical Methods	2
Third Year (26 units)	
ACCTING 1002 Accounting for Decision Makers I	3
COMP SCI 2000 Computer Systems	3
CORPFIN 2006 Business Finance II	4
ELEC ENG 2009 Engineering Electromagnetics	3
ELEC ENG 3015 Communications, Signals and Systems	3
ELEC ENG 3017 Digital Electronics	3
ELEC ENG 3020 Embedded Computer Systems	3
STATS 2002 Introduction to Mathematical Statistics II	2
STATS 2003 Statistical Practice II	2
Fourth Year (27 units)	
COMP SCI 3006 Software Engineering and Project	3
ECON 2012 Financial Economics II	4
ELEC ENG 3016 Control III	3
ELEC ENG 3018 RF Engineering III	3
ELEC ENG 3019A/B Practical Electrical & Electronic Design III	3
ELEC ENG 3022 Real Time Systems IV	3
Plus at least 8 units of Level III Finance courses chosen from those listed in Academic Program Rule 4.9.1 of the degree of Bachelor of Finance	8
Fifth Year (25 units)	
COMP SCI 3001 Computer Networks and Applications	3
ELEC ENG 4035 Communications IV	2
ELEC ENG 4036A/B Design Project#	6
or	
ELEC ENG 4039A/B Honours Project#	6
ELEC ENG 4037 Digital Microelectronics	2
Plus at least 12 units of Level III Finance courses chosen from those listed in Academic Program Rule 4.9.1 of the degree of Bachelor of Finance including:	
CORPFIN 3009 Portfolio Theory and Management III	4
and either	
APP MTH 3011 Financial Modelling Techniques II	4
or	
CORPFIN 3013 Options, Futures and Risk Management III	4

Students accepted into the Honours stream will take Honours Project and other student will take Design Project.

6.5.7 Electrical and Electronic Engineering

Candidates are required to complete satisfactorily courses to the value of 24 units at each of Levels I, II, III and IV:

Level I

COMP SCI 1008 Computer Science IA	3
COMP SCI 1009 Computer Science IB	3
ELEC ENG 1006 Electrical Engineering I	3
ELEC ENG 1007 Engineering Planning, Design and Communication	3
MATHS 1011 Mathematics IA	3
MATHS 1012 Mathematics IB	3
PHYSICS 1100 Physics IA	3
PHYSICS 1200 Physics IB	3

Level II

APP MTH 2000 Differential Equations & Fourier Series	2
APP MTH 2002 Vector Analysis and Complex Analysis	2
COMP SCI 2000 Computer Systems	3
COMP SCI 2004 Data Structures and Algorithms	3
ELEC ENG 2007 Signals and Systems	3
ELEC ENG 2008 Electronics II	3
ELEC ENG 2009 Engineering Electromagnetics	3
ELEC ENG 2010A/B Practical Electronic Design II	3
STATS 2004 Laplace Transforms and Probability and Statistical Methods	2

Level III

ELEC ENG 3012 Engineering Communication ESL (E)*	2
ELEC ENG 3015 Communications, Signals & Systems	3
ELEC ENG 3016 Control III	3
ELEC ENG 3017 Digital Electronics	3
ELEC ENG 3018 RF Engineering III	3
ELEC ENG 3019A/B Practical Electrical and Electronic Design III	3
ELEC ENG 3020 Embedded Computer Systems	3
ELEC ENG 3021 Electric Energy Systems	3
ELEC ENG 3024 Project Management for Electrical Engineering	3

* Available only to students whose native language is not English. May be presented in lieu of an elective at Level IV.

Level IV

ELEC ENG 4036A/B Design Project#	6
or	
ELEC ENG 4039A/B Honours Project#	6
ELEC ENG 4037 Digital Microelectronics	2
ELEC ENG 4038 Financial Management for Engineers	2

ELEC ENG 4040 Management & Professional Practice for Engineers	2
ELEC ENG 4042 Power Electronics & Drive Systems	2
ELEC ENG 4044 RF Engineering IV	2
ELEC ENG 4046 Telecommunications IV	2
STATS 4001 Reliability & Quality Control	2
Engineering elective courses to the value of at least 4 units	4

Engineering electives*

APP MTH 3016 Telecommunications Systems Modelling III **	3
APP MTH 4012 Communication Network Design	2
COMP SCI 3001 Computer Networks and Applications	3
COMP SCI 3004 Operating Systems	3
COMP SCI 3005 Computer Architecture	3
ELEC ENG 3022 Real Time Systems IV	3
ELEC ENG 4004 Electrical Engineering Research	2
ELEC ENG 4032 Advanced Electromagnetics	2
ELEC ENG 4033 Advanced Telecommunications	2
ELEC ENG 4034 Analog Microelectronics	2
ELEC ENG 4035 Communications IV	2
ELEC ENG 4041 Optical Communication Engineering	2
ELEC ENG 4043 Power Quality & Condition Monitoring	2
ELEC ENG 4045 Signal Processing IV	2
ELEC ENG 4047 Topics in Electrical & Electronic Engineering	2
PURE MTH 3006 Coding & Cryptology III	2
or	
PURE MTH 3018 Coding & Cryptology III (Extended)	3

Students accepted into the Honours stream will take Honours Project and other students will take Design Project.

*Not all courses are offered each year.

**May not be presented with APP MTH 3015 Stochastic Modelling for Telecommunications III.

Law courses**

LAW 1001 Introduction to Australian Law	4
LAW 1002 Law of Torts	4
LAW 1003 Law of Contract	4
LAW 1004 Law of Crime	4
LAW 1005 Property Law	4
Law electives	

** available only to students who have been admitted to the LL.B. program. Students may present these courses towards their Bachelor of Engineering in accordance with the scheme of study set out in note 1 below.

Notes:

1 Law Studies within the B.E.(Electrical & Electronic) program

To qualify for the award of the degree of B.E.(Electrical & Electronic) and the degree of LL.B., candidates are required to complete satisfactorily courses below:

First Year (25 units)

COMP SCI 1008 Computer Science IA	3
COMP SCI 1009 Computer Science IB	3
ELEC ENG 1006 Electrical Engineering I	3
LAW 1001 Introduction to Australian Law	4
either	
MATHS 1011 Mathematics IA *	3
or	
MATHS 1013 Mathematics IMA *	3
and either	
MATHS 1012 Mathematics IB *	3
or	
MATHS 1014 Mathematics IMB *	3
PHYSICS 1100 Physics IA	3
PHYSICS 1200 Physics IB	3

* Students who have not taken SACE Stage 2 Specialist Maths will be required to take MATHS 1013/1014 Mathematics IMA/B in lieu of MATHS 1011/1012 Mathematics IA/B. Such students must also take the Level II course MATHS 2004 Mathematics IIM. The satisfactory completion of Mathematics IIM is in addition to the normal requirements of the B.E. plan.

Second Year (23 units)

APP MTH 2000 Differential Equations & Fourier Series	2
APP MTH 2002 Vector Analysis and Complex Analysis	2
COMP SCI 2004 Data Structures and Algorithms	3
ELEC ENG 1007 Engineering Planning Design and Communication	3
ELEC ENG 2007 Signals and Systems	3
LAW 1002 Law of Torts	4
LAW 1003 Law of Contract	4
STATS 2004 Laplace Transforms and Probability and Statistical Methods	2

Third Year (27 units)

COMP SCI 2000 Computer Systems	3
ELEC ENG 2008 Electronics II	3
ELEC ENG 2009 Engineering Electromagnetics	3
ELEC ENG 2010A/B Practical Electronic Design II	3
ELEC ENG 3015 Communications Signals and Systems	3
Law electives *	4
LAW 1004 Law of Crime	4
LAW 1005 Property Law	4

Fourth Year (27 units)

ELEC ENG 3016 Control III	3
ELEC ENG 3017 Digital Electronics	3
ELEC ENG 3018 RF Engineering III	3
ELEC ENG 3019A/B Practical Electrical and Electronic Design III	3
ELEC ENG 3020 Embedded Computer Systems	3
ELEC ENG 3021 Electric Energy Systems	3
ELEC ENG 3024 Project Management for Electrical Engineering	3
Law courses* to the value of 6 units	6

Fifth Year (26 units)

ELEC ENG 4036A/B Design Project #	6
or	
ELEC ENG 4039A/B Honours Project#	6
ELEC ENG 4042 Power Electronics & Drive Systems	2
ELEC ENG 4044 RF Engineering IV	2
either	
ELEC ENG 4037 Digital Microelectronics	2
or	
MECH ENG 4046 Telecommunications	2
Law courses* to the value of 14 units	14

Students accepted into the Honours stream will take Honours Project and other students will take Design Project.

* Students should consult the Law School at enrolment for advice on course selection.

Note: to complete the B.E.(Electrical & Electronic) and LL.B. degree programs in minimum time, candidates are required to take all these courses even though it involves an overload.

Later Years

In accordance with the Academic Program Rules for the LL.B.

2 Program of study for the direct entry B.E.(Electrical & Electronic)/B.Sc.(Physics)

To qualify for the combined award of the degrees of B.E.(Electrical & Electronic) and B.Sc.(Physics) candidates are required to complete satisfactorily courses as indicated below:

First Year (24 units)

COMP SCI 1008 Computer Science IA	3
COMP SCI 1009 Computer Science IB	3
ELEC ENG 1006 Electrical Engineering I	3
ELEC ENG 1007 Engineering Planning, Design & Communication	3
either	
MATHS 1011 Mathematics IA *	3
or	
MATHS 1013 Mathematics IMA *	3
and either	
MATHS 1012 Mathematics IB *	3
or	
MATHS 1014 Mathematics IMB *	3
PHYSICS 1100 Physics IA	3
PHYSICS 1200 Physics IB	3

* Students who have not taken SACE Stage 2 Specialist Maths will be required to take MATHS 1013/1014 Mathematics IMA/B in lieu of MATHS 1011/1012 Mathematics IA/B. Such students must also take the Level II course MATHS 2004 Mathematics IIM. The satisfactory completion of Mathematics IIM is in addition to the normal requirements of the B.E. plan.

Second Year (23 units)

APP MTH 2000 Differential Equations and Fourier Series	2
APP MTH 2002 Vector Analysis and Complex Analysis	2
ELEC ENG 2007 Signals and Systems	3
ELEC ENG 2008 Electronics II	3
ELEC ENG 2010A/B Practical Electronic Design II	3
PHYSICS 2100 Physics IIA	4
PHYSICS 2200 Physics IIB	4
STATS 2004 Laplace Transforms and Probability and Statistical Methods	2

Third Year (25 units)

COMP SCI 2000 Computer Systems	3
COMP SCI 2004 Data Structures and Algorithms	3
ELEC ENG 2009 Engineering Electromagnetics	3
ELEC ENG 3015 Communications Signals and Systems	3
ELEC ENG 3017 Digital Electronics	3
ELEC ENG 3020 Embedded Computer Systems	3
ELEC ENG 3024 Project Management for Electrical Engineering	3
PHYSICS 2001 Classical Mechanics II	2
PHYSICS 3008 Physics of Solid State Devices	2

Fourth Year (24 units)

ELEC ENG 3016 Control III	3
ELEC ENG 3018 RF Engineering III	3
ELEC ENG 3019A/B Practical Electrical and Electronic Design III	3
ELEC ENG 3022 Electric Energy Systems	3
ELEC ENG 4038 Financial Management for Engineers	2
ELEC ENG 4040 Management & Professional Practice for Engineers	2
STATS 4001 Reliability & Quality Control	2
plus at least 6 units Level III Physics courses listed under Academic Program Rule 5.6.5 and 5.6.6 of the degree of Bachelor of Science	6

Fifth Year (25 units)

ELEC ENG 4036A/B Design Project #	6
or	

	ELEC ENG 4039A/B Honours Project #	6
	ELEC ENG 4037 Digital Microelectronics	2
	ELEC ENG 4042 Power Electronics & Drive Systems	2
	ELEC ENG 4044 RF Engineering IV	2
	ELEC ENG 4046 Telecommunications IV	2
	Engineering elective course to the value of 2 units	2
	plus at least 9 units of Level III Physics courses listed under Academic Program Rule 5.6.5 and 5.6.6 of the degree of Bachelor of Science	9

Students accepted into the Honours stream will take Honours Project and other students will take Design Project .

3 Direct Entry B.E.(Electrical & Electronic) /B.Ma.& Comp.Sc.

Refer to Academic Program Rule 6.4.3 for the requirements of this program.

4 B.E./B.Ma. & Comp. Sc.

Later Year entry:

A student who has completed Level III of the Electrical and Electronic program, and who wishes concurrently to qualify for the degrees of B.E. and B.Ma. & Comp. Sc., may undertake one year of full-time study before proceeding to further studies within the Schools of Engineering. A student who wishes to do this is required to submit an application for admission to the Mathematical Sciences degree program through the South Australian Tertiary Admissions Centre.

5 Arts studies combined with the B.E.(Electrical & Electronic)

(see also section 6.4.4 of these Rules)

To qualify for the combined award of the degrees of B.E. (Electrical & Electronic) and B.A., candidates are required to complete satisfactorily courses listed below:

First Year (24 units)

COMP SCI 1008 Computer Science IA	3
COMP SCI 1009 Computer Science IB	3
ELEC ENG 1006 Electrical Engineering I	3
ELEC ENG 1007 Engineering Planning, Design & Communication	3
either	
MATHS 1011 Mathematics IA *	3
or	
MATHS 1013 Mathematics IMA *	3
and either	
MATHS 1012 Mathematics IB *	3
or	
MATHS 1014 Mathematics IMB *	3
PHYSICS 1100 Physics IA	3
PHYSICS 1200 Physics IB	3

* Students who have not taken SACE Stage 2 Specialist Maths will be required to take MATHS 1013/1014 Mathematics IMA/B in lieu of MATHS 1011/1012 Mathematics IA/B. Such students must also take the Level II course MATHS 2004 Mathematics IIM. The satisfactory completion of Mathematics IIM is in addition to the normal requirements of the B.E. plan.

Second Year (24 units)

Level I Arts course(s) to the value of 6 units	6
APP MTH 2000 Differential Equations and Fourier Series	2
APP MTH 2002 Vector Analysis and Complex Analysis	2
COMP SCI 2000 Computer Systems	3
ELEC ENG 2007 Signals and Systems	3
ELEC ENG 2008 Electronics II	3
ELEC ENG 2010A/B Practical Electronic Design II	3
STATS 2004 Laplace Transforms and Probability and Statistical Methods	2

Third Year (23 units)

Level II Arts course(s) to the value of 8 units	8
COMP SCI 2004 Data Structures and Algorithms	3
ELEC ENG 2009 Engineering Electromagnetics	3
ELEC ENG 3015 Communications Signals and Systems	3
ELEC ENG 3017 Digital Electronics	3
ELEC ENG 3020 Embedded Computer Systems	3

Fourth Year (24 units)

Level III Arts course(s) to the value of 12 units	12
ELEC ENG 3018 RF Engineering III	3
ELEC ENG 3019A/B Practical Electrical and Electronic Design III	3
ELEC ENG 3021 Electric Energy Systems	3
ELEC ENG 3024 Project Management for Electrical Engineering	3

Fifth Year (25 units)

Arts course/s to the value of 6 units	6
ELEC ENG 3016 Control III	3
ELEC ENG 4036A/B Design Project #	6
or	
ELEC ENG 4039A/B Honours Project #	6
ELEC ENG 4037 Digital Microelectronics	2
ELEC ENG 4040 Management & Professional Practice for Engineers	2
ELEC ENG 4042 Power Electronics & Drive Systems	2
ELEC ENG 4044 RF Engineering IV	2
ELEC ENG 4046 Telecommunications IV	2

Students accepted into the Honours stream will take Honours Project and other students will take Design Project.

6 Program of study for the direct entry B.E. (Electrical & Electronic)/B.Ec. program

To qualify for both the award of the degree of B.E.(Electrical & Electronic) and the degree of B.Ec. candidates are required to complete satisfactorily courses listed below:

First Year (24 units)

COMP SCI 1008 Computer Science IA	3
COMP SCI 1009 Computer Science IB	3
ECON 1004 Principles of Microeconomics I	3

ELEC ENG 1006 Electrical Engineering I	3
either	
MATHS 1011 Mathematics IA *	3
or	
MATHS 1013 Mathematics IMA *	3
and either	
MATHS 1012 Mathematics IB *	3
or	
MATHS 1014 Mathematics IMB *	3
PHYSICS 1100 Physics IA	3
PHYSICS 1200 Physics IB	3

* Students who have not taken SACE Stage 2 Specialist Maths will be required to take MATHS 1013/1014 Mathematics IMA/B in lieu of MATHS 1011/1012 Mathematics IA/B. Such students must also take the Level II course MATHS 2004 Mathematics IIM. The satisfactory completion of Mathematics IIM is in addition to the normal requirements of the B.E. plan.

Note: the B.Ec. degree requirement that students take ECON 1008 Business Data Analysis I (3 units) will be considered satisfied by students taking COMP SCI 1008/1009 Computer Science IA/B at Level I and STATS 2004 Laplace Transforms and Probability and Statistical Methods at Level II.

Second Year (25 units)

APP MTH 2000 Differential Equations and Fourier Series	2
APP MTH 2002 Vector Analysis and Complex Analysis	2
COMP SCI 2004 Data Structures and Algorithms	3
ECON 1000 Principles of Macroeconomics I	3
ECON 2006 Economic and Financial Data Analysis II	4
ELEC ENG 2007 Signals and Systems	3
ELEC ENG 2008 Electronics II	3
ELEC ENG 2010A/B Practical Electronic Design II	3
STATS 2004 Laplace Transforms and Probability and Statistical Methods	2

Third Year (26 units)

COMP SCI 2000 Computer Systems	3
ECON 2009 Consumers, Firms and Markets II	4
ECON 2011 Macroeconomic Theory and Policy II	4
ELEC ENG 2009 Engineering Electromagnetics	3
ELEC ENG 3015 Communications Signals and Systems	3
ELEC ENG 3016 Control III	3
ELEC ENG 3017 Digital Electronics	3
ELEC ENG 3020 Embedded Computer Systems	3

Fourth Year (24 units)

COMMGMT 2007 Organisational Behaviour II	4
ELEC ENG 3018 RF Engineering III	3
ELEC ENG 3019A/B Practical Electrical and Electronic Design III	3
ELEC ENG 3021 Electric Energy Systems	3
ELEC ENG 3024 Project Management for Electrical Engineering	3
Plus at least 8 units of Level III Economics courses chosen from those listed in Academic Program Rule 4.7.1 of the degree of Bachelor of Economics	8

Note: B.Ec. students currently must take an Economic History course to qualify for the B.Ec. degree. Please refer to the Academic Program Rules of the B.Ec. degree.

Fifth Year (26 units)

ELEC ENG 4036A/B Design Project #	6
or	
ELEC ENG 4039A/B Honours Project #	6
ELEC ENG 4037 Digital Microelectronics	2
ELEC ENG 4042 Power Electronics & Drive Systems	2
ELEC ENG 4044 RF Engineering IV	2
ELEC ENG 4046 Telecommunications IV	2
Plus at least 12 units of Level III Economics courses chosen from those listed in Academic Program Rule 4.7.1 of the degree of Bachelor of Economics	12

Students accepted into the Honours stream will take Honours Project and other students will take Design Project

7 Program of study for the direct entry B.E.(Electrical & Electronic)/B.Fin. program

To qualify for both the award of the degree of B.E.(Electrical & Electronic) and the degree of B.Fin., candidates are required to complete satisfactorily courses listed below:

First Year (24 units)

COMP SCI 1008 Computer Science IA	3
COMP SCI 1009 Computer Science IB	3
ECON 1004 Principles of Microeconomics I	3
ELEC ENG 1006 Electrical Engineering I	3
either	
MATHS 1011 Mathematics IA *	3
or	
MATHS 1013 Mathematics IMA *	3
and either	
MATHS 1012 Mathematics IB *	3
or	
MATHS 1014 Mathematics IMB *	3
PHYSICS 1100 Physics IA	3
PHYSICS 1200 Physics IB	3

* Students who have not taken SACE Stage 2 Specialist Maths will be required to take MATHS 1013/1014 Mathematics IMA/B in lieu of MATHS 1011/1012 Mathematics IA/B. Such students must also take the Level II course MATHS 2004 Mathematics IIM. The satisfactory completion of Mathematics IIM is in addition to the normal requirements of the B.E. plan.

Note: the B.Fin. degree requirement that students take ECON 1008 Business Data Analysis I or STATS 1000 Statistical Practice I (3 units) will be considered satisfied by students taking COMP SCI 1008/1009 Computer Science IA/B at Level I and STATS 2004 Laplace Transforms and Probability and Statistical Methods at Level II.

Second Year (24 units)

APP MTH 2000 Differential Equations and Fourier Series	2
APP MTH 2002 Vector Analysis and Complex Analysis	2
COMP SCI 2004 Data Structures and Algorithms	3
ECON 1000 Principles of Macroeconomics I	3
ELEC ENG 2007 Signals and Systems	3
ELEC ENG 2008 Electronics II	3
ELEC ENG 2010A/B Practical Electronic Design II	3
FINANCE 1000 International Financial Institutions and Markets I	3
STATS 2004 Laplace Transforms and Probability and Statistical Methods	2

Third Year (26 units)

ACCTING 1002 Accounting for Decision Makers I	3
COMP SCI 2000 Computer Systems	3
CORPFIN 2006 Business Finance II	4
ELEC ENG 2009 Engineering Electromagnetics	3
ELEC ENG 3015 Communications, Signals and Systems	3
ELEC ENG 3017 Digital Electronics	3
ELEC ENG 3020 Embedded Computer Systems	3
STATS 2002 Introduction to Mathematical Statistics II	2
STATS 2003 Statistical Practice II	2

Fourth Year (27 units)

ECON 2012 Financial Economics II	4
ELEC ENG 3016 Control III	3
ELEC ENG 3018 RF Engineering III	3
ELEC ENG 3019A/B Practical Electrical and Electronic Design III	3
ELEC ENG 3021 Electric Energy Systems	3
ELEC ENG 3024 Project Management for Electrical Engineering	3
Plus at least 8 units of Level III Finance courses chosen from those listed in Academic Program Rule 4.9.1 of the degree of Bachelor of Finance	8

Fifth Year (24 units)

ELEC ENG 4036A/B Design Project #	6
or	
ELEC ENG 4039A/B Honours Project #	6
either	
ELEC ENG 4037 Digital Microelectronics	2
or	
ELEC ENG 4046 Telecommunications IV	2
ELEC ENG 4042 Power Electronics & Drive Systems	2
ELEC ENG 4044 RF Engineering IIV	2
Plus at least 12 units of Level III Finance courses chosen from those listed in Academic Program Rule 4.9.1 of the degree of Bachelor of Finance, including:	
CORPFIN 3009 Portfolio Theory and Management III	4
and either	
APP MTH 3011 Financial Modelling Techniques III	4
or	
CORPFIN 3013 Options, Futures and Risk Management III	4

Students accepted into the Honours stream will take Honours Project and other students will take Design Project.

6.5.8 Mechanical Engineering

Candidates are required to complete satisfactorily courses to the value of 24 units at each of Levels I, II, III and IV:

Level I

C&ENVENG 1001 Statics	2
CHEM ENG 1002 Engineering Computing I	2
CHEM ENG 1003 Materials I	2
ELEC ENG 1008 Electrical Engineering IM	2
MATHS 1011 Mathematics IA	3
MATHS 1012 Mathematics IB	3
MECH ENG 1000 Dynamics	2
MECH ENG 1001 Design Graphics	2
MECH ENG 1005 Engineering Planning, Design & Communication M	2
PHYSICS 1003 Physics IHE	3

Level II

APP MTH 2000 Differential Equations & Fourier Series	2
APP MTH 2002 Vector Analysis & Complex Analysis	2
APP MTH 2009 Numerical Analysis and Probability and Statistics	2
MECH ENG 2002 Stress Analysis & Design	3
MECH ENG 2011 Mechatronics IM	2
MECH ENG 2018 Design Practice	4
MECH ENG 2019 Dynamics & Control 1	3
MECH ENG 2020 Materials & Manufacturing	3
MECH ENG 2021 Thermo-Fluids I	3

Level III

APP MTH 3009 Engineering Mathematics III	2
ELEC ENG 3023 Electric Energy Systems M	2
MECH ENG 3006 Engineering Communication ESL (M)*	2
MECH ENG 3016 Aeronautical Engineering I	2
MECH ENG 3017 Engineering and the Environment	2
MECH ENG 3020 Heat Transfer	2
MECH ENG 3027 Design & Communication	3
MECH ENG 3028 Dynamics & Control II	3
MECH ENG 3029 Manufacturing Engineering	2

MECH ENG 3030 Structural Design & Solid Mechanics 3

MECH ENG 3031 Thermo-Fluids II 3

* available only to students whose native language is not English; may be presented in lieu of an elective at Level IV

Level IV

MECH ENG 4007A/B Mechanical Honours Project Level IV # 8

or

MECH ENG 4041A/B Mechanical Design Project Level IV # 8

MECH ENG 4038 Engineering Management & Professional Practice 2

Electives to the value of at least 14 units selected from the list below 14

Electives*

With the approval of the Head of the School of Mechanical Engineering, courses offered by other schools within the University may be included in the selection of electives. Of the seven electives selected, not less than five must be those offered by the School of Mechanical Engineering.

APP MTH 4003 Aerodynamics** 2

APP MTH 4004 System Modelling & Simulation** 2

APP MTH 4007 Computational Fluid Dynamics (Engineering)** 2

APP MTH 4043 Transform Methods and Signal Processing** 2

MECH ENG 4000 Fundamentals in Non-Linear Computational Mechanics 2

MECH ENG 4002 Combustion Technology and Emission Control 2

MECH ENG 4003 Fracture Mechanics 2

MECH ENG 4004 Engineering Acoustics 2

MECH ENG 4011 Advanced Automatic Control 2

MECH ENG 4013 Airconditioning 2

MECH ENG 4015 Space Vehicle Design 2

MECH ENG 4020 Advanced Vibrations 2

MECH ENG 4023 Advanced Topics in Fluid Mechanics 2

MECH ENG 4025 Topics in Welded Structures 2

MECH ENG 4026 Environmental and Architectural Acoustics 2

MECH ENG 4027 Robotics M 2

MECH ENG 4028 Mechatronics IIIM 2

MECH ENG 4033 Mechanical Signature Analysis 2

MECH ENG 4039 Finance for Engineers 2

MECH ENG 4042 Fire Engineering 2

MECH ENG 4046 Computation Technique for Engineering Applications 2

MECH ENG 4052 Introduction to Biomechanics 2

Students accepted into the Honours stream will take Mechanical Honours Project Level IV and other students will take Mechanical Design Project Level IV

* Not all courses are offered each year. Information as to which courses are to be offered in a given year will be available at the time of enrolment.

** not offered by School of Mechanical Engineering.

Law courses*

LAW 1001 Introduction to Australian Law 4

LAW 1002 Law of Torts 4

LAW 1003 Law of Contract 4

LAW 1004 Law of Crime 4

LAW 1005 Property Law 4

Law electives *

* available only to students who have been admitted to the LL.B. program. Students may present these courses towards their Bachelor of Engineering in accordance with the scheme of study set out in note 1 below.

Notes:

1. Law Studies within the B.E.(Mech.) program

To qualify for the award of the degree of B.E.(Mech.) and the degree of LL.B., candidates are required to complete satisfactorily courses below:

First Year (25 units)

C&ENVENG 1001 Statics 2

CHEM ENG 1002 Engineering Computing I 2

CHEM ENG 1003 Materials I 2

ELEC ENG 1008 Electrical Engineering IM 2

LAW 1001 Introduction to Australian Law 4

either

MATHS 1011 Mathematics IA * 3

or

MATHS 1013 Mathematics IMA * 3

and either

MATHS 1012 Mathematics IB * 3

or

MATHS 1014 Mathematics 1MB * 3

MECH ENG 1000 Dynamics 2

MECH ENG 1001 Design Graphics 2

PHYSICS 1003 Physics IHE 3

* Students who have not taken SACE Stage 2 Specialist Maths will be required to take MATHS 1013/1014 Mathematics IMA/B in lieu of MATHS 1011/1012 Mathematics IA/B. Such students must also take the Level II course MATHS 2004 Mathematics IIM. The satisfactory completion of Mathematics IIM is in addition to the normal requirements of the B.E. plan.

Second Year (26 units)

APP MTH 2000 Differential Equations & Fourier Series	2
APP MTH 2002 Vector Analysis & Complex Analysis	2
APP MTH 2009 Numerical Analysis & Probability & Statistics	2
LAW 1002 Law of Torts	4
LAW 1005 Property Law	4
MECH ENG 2002 Stress Analysis & Design	3
MECH ENG 2011 Mechatronics IM	2
MECH ENG 2018 Design Practice	4
MECH ENG 2021 Thermo-Fluids I	3

Third Year (24 units)

ELEC ENG 3023 Electric Energy Systems M	2
Law electives*	4
LAW 1003 Law of Contract	4
MECH ENG 2019 Dynamics & Control 1	3
MECH ENG 2020 Materials & Manufacturing	3
MECH ENG 3029 Manufacturing Engineering	2
MECH ENG 3030 Structural Design & Solid Mechanics	3
MECH ENG 3031 Thermo-Fluids 2	3

* Students should consult the Law School at enrolment for advice on electives offered

Fourth Year (26 units)

LAW 1005 Property Law	4
MECH ENG 3016 Aeronautical Engineering I	2
MECH ENG 3017 Engineering and the Environment	2
MECH ENG 3020 Heat Transfer	2
MECH ENG 3028 Dynamics & Control II	3
MECH ENG 3031 Thermo-Fluids II	3
MECH ENG 4007A /B Mechanical Honours Project Level IV #	8
or	
MECH ENG 4041A/B Mechanical Design Project Level IV#	8
Mechanical Engineering Electives* to the value of 2 units	2

* Chosen from the list above excluding MECH ENG 4011 Advanced Automatic Control.

Students accepted into the Honours stream will take Mechanical Honours Project Level IV and other students will take Mechanical Design Project Level IV

Note: to complete the B.E.(Mechanical) and LL.B. degree programs in minimum time, candidates are required to take all these courses even though it involves an overload.

Later Years

In accordance with the Academic Program Rules for the LL.B.

2 Direct entry B.E.(Mechanical)/B.Sc.
(see also Academic Program Rule 6.4.2).

To qualify for the award of the degrees of B.E.(Mech.) and B.Sc. candidates are required to complete satisfactorily courses as indicated below:

First Year (26 units)

Science courses to the value of 18 units as follows

CHEM 1100 Chemistry IA	3
and	
CHEM 1200 Chemistry IB	3
either	
MATHS 1011 Mathematics IA *	3
or	
MATHS 1013 Mathematics IMA *	3
and either	
MATHS 1012 Mathematics IB *	3
or	
MATHS 1014 Mathematics IMB *	3
PHYSICS 1100 Physics IA	3
and	
PHYSICS 1200 Physics IB	3

Engineering courses to the value of 8 units as follows

C&ENVENG 1001 Statics	2
CHEM ENG 1002 Engineering Computing I	2
CHEM ENG 1003 Materials I	2
MECH ENG 1000 Dynamics	2

Second Year (24 units)

APP MTH 2000 Differential Equations and Fourier Series	2
APP MTH 2002 Vector Analysis & Complex Analysis	2
APP MTH 2009 Numerical Analysis & Probability & Statistics	2
MECH ENG 1001 Design Graphics	2
MECH ENG 2002 Stress Analysis and Design	3
MECH ENG 2018 Design Practice	4
MECH ENG 2019 Dynamics and Control 1	3
MECH ENG 2020 Materials and Manufacturing	3
MECH ENG 2021 Thermo-Fluids I	3

Third Year (24 units)

MECH ENG 2011 Mechatronics IM	2
MECH ENG 3017 Engineering and the Environment	2
MECH ENG 3027 Design & Communication	3
MECH ENG 3028 Dynamics and Control II	3
MECH ENG 3030 Structural Design & Solid Mechanics	3
MECH ENG 3031 Thermo-Fluids II	3
PHYSICS 2100 Physics IIA	4
PHYSICS 2200 Physics IIB	4

Fourth Year (24 units)

Level III Science courses to the value of 24 units	24

Fifth Year (24 units)

ELEC ENG 3023 Electric Energy Systems M	2
MECH ENG 3016 Aeronautical Engineering I	2

	MECH ENG 3020 Heat Transfer	2
	MECH ENG 4007A/B Mechanical Honours Project Level IV#	8
	or	
	MECH ENG 4041A/B Mechanical Design Project Level IV#	8
	MECH ENG 4038 Engineering Management & Professional Practice	2
	Mechanical Engineering Electives* from the list above to the value of 8 units	8

Students accepted into the Honours stream will take Mechanical Honours Project Level IV and other students will take Mechanical Design Project Level IV

* Of the four electives chosen, at least three must be from the School of Mechanical Engineering

3 Direct Entry B.E.(Mech)/B.Ma. & Comp. Sc.

Refer to Academic Program Rule 6.4.3 for the requirements of this program. Note: the program of studies will vary depending on whether students wish to Major in Mathematics or in Computer Science for the B.Ma. & Comp. Sc.

4 Arts studies combined with the B.E.(Mech)
(see also section 6.4.4 of these Rules)

To qualify for the award of the degrees of B.E.(Mech) and B.A., candidates are required to complete satisfactorily courses as indicated below:

	First Year (25 units)	
	Level I Arts course(s) to the value of 6 units	6
	C&ENVENG 1001 Statics	2
	CHEM ENG 1002 Engineering Computing 1	2
	CHEM ENG 1003 Materials I	2
	ELEC ENG 1008 Electrical Engineering IM	2
	either	
	MATHS 1011 Mathematics IA *	3
	or	
	MATHS 1013 Mathematics IMA *	3
	and either	
	MATHS 1012 Mathematics IB *	3
	or	
	MATHS 1014 Mathematics 1MB *	3
	MECH ENG 1000 Dynamics	2
	PHYSICS 1003 Physics IHE	3

* Students who have not taken SACE Stage 2 Specialist Maths will be required to take MATHS 1013/1014 Mathematics IMA/B in lieu of MATHS 1011/1012 Mathematics IA/B. Such students must also take the Level II course MATHS 2004 Mathematics IIM. The satisfactory completion of Mathematics IIM is in addition to the normal requirements of the B.E. plan.

	Second Year (26 units)	
	Level II Arts course(s) to the value of 8 units	8
	APP MTH 2000 Differential Equations & Fourier Series	2
	APP MTH 2002 Vector Analysis & Complex Analysis	2
	APP MTH 2009 Numerical Analysis & Probability & Statistics	2
	MECH ENG 1001 Design Graphics	2
	MECH ENG 2002 Stress Analysis & Design	3
	MECH ENG 2018 Design Practice	4
	MECH ENG 2021 Thermo-Fluids I	3
	Third Year (26 units)	
	Level III Arts course(s) to the value of 12 units	12
	MECH ENG 2011 Mechatronics IM	2
	MECH ENG 2019 Dynamics & Control 1	3
	MECH ENG 2020 Materials & Manufacturing	3
	MECH ENG 3027 Design & Communication	3
	MECH ENG 3031 Thermo-Fluids 2	3
	Fourth Year (24 units)	
	Level I Arts course(s) to the value of 6 units	6
	APP MTH 3009 Engineering Mathematics III	2
	ELEC ENG 3023 Electrical Energy Systems M	2
	MECH ENG 3016 Aeronautical Engineering I	2
	MECH ENG 3017 Engineering and the Environment	2
	MECH ENG 3020 Heat Transfer	2
	MECH ENG 3028 Dynamics and Control 2	3
	MECH ENG 3029 Manufacturing Engineering	2
	MECH ENG 3030 Structural Design & Solid Mechanics	3
	Fifth Year (24 units)	
	MECH ENG 4007A/B Mechanical Honours Project Level IV #	8
	or	
	MECH ENG 4041A/B Mechanical Design Project Level IV #	8
	MECH ENG 4038 Engineering Management & Professional Practice	2
	Mechanical Engineering Elective* courses to the value of at least 14 units from the list above	14

Students accepted into the Honours stream will take Mechanical Honours Project Level IV and other students will take Mechanical Design Project Level IV

*Of the seven electives selected, not less than five must be those offered by the School of Mechanical Engineering.

5 Program of study for the direct entry B.E.(Mechanical)/B.Ec. program

To qualify for both the award of the degree of B.E.(Mechanical) and the degree of B.Ec., candidates are required to complete satisfactorily courses as indicated below:

	First Year (24 units)	
	C&ENVENG 1001 Statics	2
	CHEM ENG 1002 Engineering Computing I	2
	CHEM ENG 1003 Materials I	2
	ECON 1004 Principles of Microeconomics I	3
	ELEC ENG 1008 Electrical Engineering IM	2
	either	
	MATHS 1011 Mathematics IA *	3

or

MATHS 1013 Mathematics IMA * 3

and either

MATHS 1012 Mathematics IB * 3

or

MATHS 1014 Mathematics 1MB * 3

MECH ENG 1000 Dynamics 2

MECH ENG 1001 Design Graphics 2

PHYSICS 1003 Physics IHE 3

* Students who have not taken SACE Stage 2 Specialist Maths will be required to take MATHS 1013/1014 Mathematics IMA/B in lieu of MATHS 1011/1012 Mathematics IA/B. Such students must also take the Level II course MATHS 2004 Mathematics IIM. The satisfactory completion of Mathematics IIM is in addition to the normal requirements of the B.E. plan.

Note: the B.Ec. degree requirement that students take ECON 1008 Business Data Analysis I (3 units) will be considered satisfied by students taking CHEM ENG 1002 Engineering Computing I at Level I and APP MTH 2009 Numerical Analysis and Probability and Statistics at Level II.

Second Year (24 units)

APP MTH 2000 Differential Equations & Fourier Series 2

APP MTH 2002 Vector Analysis & Complex Analysis 2

APP MTH 2009 Numerical Analysis & Probability & Statistics 2

ECON 1000 Principles of Macroeconomics I 3

MECH ENG 2002 Stress Analysis & Design 3

MECH ENG 2011 Mechatronics IM 2

MECH ENG 2018 Design Practice 4

MECH ENG 2019 Dynamics & Control 1 3

MECH ENG 2021 Thermo-Fluids I 3

Third Year (25 units)

ECON 2009 Consumers, Firms and Markets II 4

ECON 2011 Macroeconomic Theory and Policy II 4

ELEC ENG 3023 Electric Energy Systems M 2

MECH ENG 2020 Materials and Manufacturing 3

MECH ENG 3027 Design & Communication 3

MECH ENG 3028 Dynamics and Control 2 3

MECH ENG 3030 Structural Design & Solid Mechanics 3

MECH ENG 3031 Thermo-Fluids 2 3

Fourth Year (24 units)

COMMGMT 2007 Organisational Behaviour II 4

ECON 2006 Economic and Financial Data Analysis II 4

Plus at least 16 units of Level III Economics courses chosen those listed in Academic Program Rule 4.7.1 of the degree of Bachelor of Economics 16

Note: B.Ec. students currently must take one Economic History course to qualify for the B.Ec. degree. Please refer to the Academic Program Rules of the B.Ec. degree.

Fifth Year (24 units)

MECH ENG 3016 Aeronautical Engineering I 2

MECH ENG 3017 Engineering and the Environment 2

MECH ENG 3020 Heat Transfer 2

MECH ENG 4007A/B Mechanical Honours Project Level IV # 8

or

MECH ENG 4041A/B Mechanical Design Project Level IV # 8

MECH ENG 4038 Engineering Management and Professional Practice 2

Plus at least 8 units of Mechanical Engineering elective* courses from the list above (may not present MECH ENG 4039 Finance for Engineers) 8

* Of the four electives selected, not less than three must be from the School of Mechanical Engineering.

Students accepted into the Honours stream will take Mechanical Honours Project Level IV and other students will take Mechanical Design Project Level IV

6 Program of study for the direct entry B.E.(Mechanical)/B.Fin. program

To qualify for both the award of the degree of B.E.(Mechanical) and the degree of B.Fin., candidates are required to complete satisfactorily courses listed below:

First Year (24 units)

C&ENVENG 1001 Statics 2

CHEM ENG 1002 Engineering Computing I 2

CHEM ENG 1003 Materials I 2

ECON 1004 Principles of Microeconomics I 3

ELEC ENG 1008 Electrical Engineering 1IM 2

either

MATHS 1011 Mathematics IA * 3

or

MATHS 1013 Mathematics IMA * 3

and either

MATHS 1012 Mathematics IB * 3

or

MATHS 1014 Mathematics 1MB * 3

MECH ENG 1000 Dynamics 2

MECH ENG 1001 Design Graphics 2

PHYSICS 1003 Physics IHE 3

* Students who have not taken SACE Stage 2 Specialist Maths will be required to take MATHS 1013/1014 Mathematics IMA/B in lieu of MATHS 1011/1012 Mathematics IA/B. Such students must also take the Level II course MATHS 2004 Mathematics IIM. The satisfactory completion of Mathematics IIM is in addition to the normal requirements of the B.E. plan.

Note: the B.Fin. degree requirement that students take ECON 1008 Business Data Analysis I or STATS 1000 Statistical Practice I (3 units) will be considered satisfied by students taking CHEM ENG 1002 Engineering Computing I at Level I and APP MTH 2009 Numerical Analysis and Probability and Statistics at Level II.

Second Year (24 units)	
APP MTH 2000 Differential Equations & Fourier Series	2
APP MTH 2002 Vector Analysis & Complex Analysis	2
APP MTH 2009 Numerical Analysis & Probability & Statistics	2
ECON 1000 Principles of Macroeconomics I	3
FINANCE 1000 International Finance Institutions & Markets 1	3
MECH ENG 2011 Mechatronics IM	2
MECH ENG 2018 Design Practice	4
MECH ENG 2019 Dynamics & Control 1	3
MECH ENG 2020 Materials and Manufacturing	3
Third Year (26 units)	
ACCTING 1002 Accounting for Decision Makers	3
CORPFIN 2006 Business Finance II	4
ECON 2012 Financial Economics II	4
ELEC ENG 3021 Electric Energy Systems M	2
MECH ENG 2002 Stress Analysis & Design	3
MECH ENG 2021 Thermo-Fluids I	3
MECH ENG 3028 Dynamics and Control 2	3
STATS 2002 Introduction to Mathematical Statistics II	2
STATS 2003 Statistical Practice II	2
Fourth Year (25 units)	
MECH ENG 3016 Aeronautical Engineering I	2
MECH ENG 3017 Engineering and the Environment	2
MECH ENG 3027 Design & Communication	3
MECH ENG 3030 Structural Design & Solid Mechanics	3
MECH ENG 3031 Thermo-Fluids II	3
Plus at least 12 units of Level III Finance courses chosen from those listed in Academic Program Rule 4.9.1 of the degree of Bachelor of Finance including:	
CORPFIN 3009 Portfolio Theory and Management III	4
and either	
APP MTH 3011 Financial Modelling Techniques III	4
or	
CORPFIN 3013 Options, Futures and Risk Management III	4
Fifth Year (24 units)	
MECH ENG 3020 Heat Transfer	2
MECH ENG 4007A/B Mechanical Honours Project Level IV #	8
or	
MECH ENG 4041A/B Mechanical Design Project Level IV #	8
MECH ENG 4038 Engineering Management for Professional Practice	2
plus Mechanical Engineering elective courses to the value of at least 8 units (may not present MECH ENG 4039 Finance for Engineers)*	8
Plus at least 4 units of Level III Finance courses chosen from those listed in Academic Program Rule 4.9.1 of the degree of Bachelor of Finance	4

Students accepted into the Honours stream will take Mechanical Honours Project Level IV and other students will take Mechanical Design Project Level IV

* Of the four electives selected, not less than three must be from the School of Mechanical Engineering.

6.5.9 Mechatronic Engineering

Candidates are required to complete satisfactorily courses to the value of 24 units at each of Levels I, II, III and IV:

Level I

C&ENVENG 1001 Statics	2
CHEM ENG 1002 Engineering Computing I	2
CHEM ENG 1003 Materials I	2
ELEC ENG 1008 Electrical Engineering IM	2
MATHS 1011 Mathematics IA	3
MATHS 1012 Mathematics IB	3
MECH ENG 1000 Dynamics	2
MECH ENG 1001 Design Graphics	2
MECH ENG 1005 Engineering Planning, Design and Communication M	3
PHYSICS 1003 Physics IHE	3

Level II

APP MTH 2000 Differential Equations & Fourier Series	2
APP MTH 2002 Vector Analysis & Complex Analysis	2
APP MTH 2009 Numerical Analysis & Probability and Statistics	2
MECH ENG 2002 Stress Analysis & Design	3
MECH ENG 2011 Mechatronics IM	2
MECH ENG 2015 Electronics IIM	3
MECH ENG 2018 Design Practice	4
MECH ENG 2019 Dynamics & Control I	3
MECH ENG 2021 Thermo-Fluids I	3

Level III

APP MTH 3009 Engineering Mathematics III	2
ELEC ENG 3020 Embedded Computer Systems	3
ELEC ENG 4042 Power Electronics & Drive Systems	2
MECH ENG 3006 Engineering Communication ESL (M)*	2
MECH ENG 3014 Mechatronics II	2
MECH ENG 3017 Engineering and the Environment	2
MECH ENG 3020 Heat Transfer	2
MECH ENG 3027 Design & Communication	3
MECH ENG 3028 Dynamics & Control II	3
MECH ENG 3029 Manufacturing Engineering	2
MECH ENG 3032 Micro-Controller Programming	3

* Available only to students whose native language is not English; may be presented in lieu of an elective at Level IV

Level IV

MECH ENG 4019A/B Mechatronics Honours Project Level IV #	8
or	
MECH ENG 4050A/B Mechatronics Design Project Level IV #	8
MECH ENG 4011 Advanced Automatic Control	2
MECH ENG 4027 Robotics M	2
MECH ENG 4028 Mechatronics IIIM	2
MECH ENG 4033 Mechanical Signature Analysis*	2
MECH ENG 4038 Engineering Management and Professional Practice	2
Engineering Electives to the value of 6 units	6

* Students who have already passed MECH ENG 3002 Mechanical Signature Analysis should substitute an additional elective course offered by Mechanical Engineering

Electives*

Elective courses to the value of at least 6 units from the following, with the proviso that at least two electives must be selected from courses offered by the School of Mechanical Engineering:

APP MTH 4007 Computational Fluid Dynamics (Engineering)**	2
APP MTH 4043 Transform Methods and Signal Processing**	2
MECH ENG 4000 Fundamentals in Non-Linear Computational Mechanics	2
MECH ENG 4003 Fracture Mechanics	2
MECH ENG 4004 Engineering Acoustics	2
MECH ENG 4015 Space Vehicle Design	2
MECH ENG 4020 Advanced Vibrations	2
MECH ENG 4023 Advanced Topics in Fluid Mechanics	2
MECH ENG 4025 Topics in Welded Structures	2
MECH ENG 4026 Environmental and Architectural Acoustics	2
MECH ENG 4039 Finance for Engineers	2
MECH ENG 4042 Fire Engineering	2
MECH ENG 4046 Computation Technique for Engineering Applications	2
MECH ENG 4052 Introduction to Biomechanics	2

* not all courses are offered each year.

** courses not offered by School of Mechanical Engineering.

Students accepted into the Honours stream will take Mechatronics Honours Project Level IV and other students will take Mechatronics Design Project Level IV

Notes:

1 Direct Entry B.E.(Mechatronic)/B.Ma. & Comp. Sc.

Refer to Academic Program Rule 6.4.3 for the requirements of this program. Note: the program of studies will vary depending on whether students wish to major in Mathematics or in Computer Science for the B.Ma. & Comp.Sc.

2 Arts studies combined with the B.E.(Mechatronic)

(see also section 6.4.4 of these Rules)

To qualify for the award of the degrees of B.E.(Mechatronic) and B.A. candidates are required to complete satisfactorily courses as indicated below:

First Year (25 units)	
Level I Art course(s) to the value of 6 units	6
C&ENVENG 1001 Statics	2
CHEM ENG 1002 Engineering Computing I	2
CHEM ENG 1003 Materials I	2
ELEC ENG 1008 Electrical Engineering IM	2
either	
MATHS 1011 Mathematics IA *	3
or	
MATHS 1013 Mathematics IMA *	3
and either	
MATHS 1012 Mathematics IB *	3
or	
MATHS 1014 Mathematics 1MB *	3
MECH ENG 1000 Dynamics	2
PHYSICS 1003 Physics IHE	3
Second Year (26 units)	
Level II Art course(s) to the value of 8 units	8
APP MTH 2000 Differential Equations & Fourier Series	2
APP MTH 2002 Vector Analysis & Complex Analysis	2
APP MTH 2009 Numerical Analysis & Probability & Statistics	2
MECH ENG 1001 Design Graphics	2
MECH ENG 2002 Stress Analysis & Design	3
MECH ENG 2018 Design Practice	4
MECH ENG 2021 Thermo-Fluids I	3
Third Year (25 units)	
Level III Art course(s) to the value of 12 units	12
ELEC ENG 4042 Power Electronics & Drive Systems	2
MECH ENG 2011 Mechatronics IM	2
MECH ENG 2015 Electronics IIM	3
MECH ENG 2019 Dynamics & Control I	3
MECH ENG 3032 Micro-Controller Programming	3
Fourth Year (25 units)	
Level I Art course(s) to the value of 6 units	6
APP MTH 3009 Engineering Mathematics III	2
ELEC ENG 3020 Embedded Computer Systems	3

MECH ENG 3014 Mechatronics II	2
MECH ENG 3017 Engineering and the Environment	2
MECH ENG 3020 Heat Transfer	2
MECH ENG 3027 Design & Communication	3
MECH ENG 3028 Dynamics and Control II	3
MECH ENG 3029 Manufacturing Engineering	2
Fifth Year (24 units)	
MECH ENG 4011 Advanced Automatic Control	2
MECH ENG 4019A/B Mechatronics Honours Project Level IV #	8
or	
MECH ENG 4050A/B Mechatronics Design Project Level IV #	8
MECH ENG 4027 Robotics M	2
MECH ENG 4028 Mechatronics IIIM	2
MECH ENG 4033 Mechanical Signature Analysis	2
MECH ENG 4038 Engineering Management & Professional Practice	2
Engineering Elective* courses to the value of at least 6 units from the list above	6

Students accepted into the Honours stream will take Mechatronics Honours Project Level IV and other students will take Mechatronics Design Project Level IV

* Of the three elective courses chosen, at least two must be offered by the School of Mechanical Engineering.

3 Program of study for the direct entry B.E.(Mechatronic)/B.Ec. program

First Year (24 units)	
C&ENVENG 1001 Statics	2
CHEM ENG 1002 Engineering Computing	2
CHEM ENG 1003 Materials I	2
ECON 1004 Principles of Microeconomics I	3
ELEC ENG 1008 Electrical Engineering IM	2
either	
MATHS 1011 Mathematics IA *	3
or	
MATHS 1013 Mathematics IMA *	3
and either	
MATHS 1012 Mathematics IB *	3
or	
MATHS 1014 Mathematics 1MB *	3
MECH ENG 1000 Dynamics	2
MECH ENG 1001 Design Graphics	2
PHYSICS 1003 Physics IHE	3

* Students who have not taken SACE Stage 2 Specialist Maths will be required to take MATHS 1013/1014 Mathematics IMA/B in lieu of MATHS 1011/1012 Mathematics IA/B. Such students must also take the Level II course MATHS 2004 Mathematics IIM. The satisfactory completion of Mathematics IIM is in addition to the normal requirements of the B.E. plan.

Note: the B.Ec. degree requirement that students take ECON1008 Business Data Analysis I (3 units) will be considered satisfied by students taking CHEM ENG 1002 Engineering Computing I at Level I and APP MTH 2009 Numerical Analysis and Probability and Statistics at Level II.

Second Year (24 units)	
APP MTH 2000 Differential Equations & Fourier Series	2
APP MTH 2002 Vector Analysis & Complex Analysis	2
APP MTH 2009 Numerical Analysis & Probability & Statistics	2
ECON 1000 Principles of Macroeconomics I	3
MECH ENG 2002 Stress Analysis & Design	3
MECH ENG 2011 Mechatronics IM	2
MECH ENG 2015 Electronics IIM	3
MECH ENG 2018 Design Practice	4
MECH ENG 2019 Dynamics & Control I	3
Third Year (26 units)	
ECON 2009 Consumers, Firms and Markets II	4
ECON 2011 Macroeconomic Theory and Policy II	4
ELEC ENG 3020 Embedded Computer Systems	3
ELEC ENG 4042 Power Electronics & Drive Systems	2
MECH ENG 2021 Thermo-Fluids I	3
MECH ENG 3014 Mechatronics II	2
MECH ENG 3017 Engineering and the Environment	2
MECH ENG 3027 Design and Communication	3
MECH ENG 3032 Micro-Controller Programming	3
Fourth Year (26 units)	
COMMGMT 2007 Organisational Behaviour II	4
ECON 2006 Economic and Financial Data Analysis II	4
MECH ENG 3029 Manufacturing Engineering	2
Plus at least 16 units of Level III Economics courses chosen from those listed in Academic Program Rule 4.7.1 of the degree of Bachelor of Economics	16

Note: B.Ec. students currently must take one Economic History course to qualify for the B.Ec. degree. Please refer to the Academic Program Rules of the B.Ec. degree.

Fifth Year (25 units)	
MECH ENG 3020 Heat Transfer	2
MECH ENG 3028 Dynamics & Control 2	3
MECH ENG 4011 Advanced Automatic Control	2
MECH ENG 4019A/B Mechatronics Honours Project Level IV #	8
or	
MECH ENG 4050A/B Mechatronics Design Project Level IV #	8
MECH ENG 4027 Robotics M	2
MECH ENG 4028 Mechatronics IIIM	2
MECH ENG 4033 Mechanical Signature Analysis	2
MECH ENG 4038 Engineering Management for professional Practice	2

plus Engineering elective courses to the value of at least 2 units from the list above (may not present MECH ENG 4039 Finance for Engineers 2

Students accepted into the Honours stream will take Mechatronics Honours Project Level IV and other students will take Mechatronics Design Project Level IV

6.5.10 Petroleum Engineering

Candidates are required to complete satisfactorily courses to the value of at least 24 units at each of Levels I, II, III and IV:

Level I

C&ENVENG 1001 Statics 2
CHEM 1100 Chemistry IA 3
CHEM ENG 1000 Process Systems 2
CHEM ENG 1002 Engineering Computing I 2
MATHS 1011 Mathematics IA 3
MATHS 1012 Mathematics IB 3
PETROENG 1000 Introduction to the Petroleum Industry 2
PETROENG 1001 Introduction to Rock & Fluid Properties 4
PETROENG 1003 Introduction to Petroleum Geosciences 2
PHYSICS 1100 Physics IA 3

Level II

APP MTH 2000 Differential Equations & Fourier Series 2
APP MTH 2009 Numerical Analysis and Probability and Statistics 2
C&ENVENG 2001 Stress Analysis (C) 2
ELEC ENG 1006 Electrical Engineering I 3
MECH ENG 2021 Thermo-fluids I 3
PETROENG 2000 Fundamentals of Drilling Engineering 2
PETROENG 2001 Reservoir Thermodynamics and Fluid Properties 2
PETROENG 2005 Sedimentology and Stratigraphy 2
PETROENG 2007 Production and Facilities Engineering Fundamentals 2
PETROENG 2008 Fundamentals of Reservoir Engineering 3
PETROENG 2009 Formation Evaluation, Petrophysics and Rock Properties 3

Level III

PETROENG 3001 Fundamentals of Numerical Reservoir Simulation 3
PETROENG 3002 Economic Evaluation 3
PETROENG 3003 Reservoir Engineering 3
PETROENG 3005 Reservoir Characterisation and Modelling 3
PETROENG 3007 Well Testing and Pressure Transient Analysis 3
PETROENG 3012 Engineering Communication ESL(P)* 2
PETROENG 3018 Drilling Engineering and Well Completion 3
PETROENG 3019 Structural Geology and Seismic Methods 3
PETROENG 3020 Production Optimisation & Project 3

* Available only to students whose native language is not English - may be presented in lieu of 2 units.

Level IV - Reservoir*

PETROENG 4002 Enhanced Oil Recovery 3
PETROENG 4003 Reservoir Geology for Engineers 2
PETROENG 4004 Petroleum Engineering Honours Project 4
or
PETROENG 4020 Petroleum Engineering Design project 4
PETROENG 4009 Integrated Reservoir Management 3
PETROENG 4010 Project Management 3
PETROENG 4022 Integrated Field Development Planning and Economics Project 3
PETROENG 4023 Oil & Gas Resources & Reserves 3
PETROENG 4024 Decision-Making under Uncertainty 3

*Well & Facilities options not offered in 2005

Notes:

1 Program of study for the direct entry B.E.(Petroleum)/B.E.(Chemical)

To qualify for the combined award of the degrees of B.E.(Petroleum) and B.E.(Chemical), candidates are required to complete satisfactorily the courses as indicated below:

First Year (24 units)

CHEM 1100 Chemistry IA 3
CHEM 1200 Chemistry IB 3
CHEM ENG 1000 Process Systems 2
CHEM ENG 1002 Engineering Computing 1 2
CHEM ENG 1003 Materials I 2
either
MATHS 1011 Mathematics IA * 3
or
MATHS 1013 Mathematics IMA * 3
and either
MATHS 1012 Mathematics IB * 3
or
MATHS 1014 Mathematics 1MB * 3
PETROENG 1001 Introduction to Rock & Fluid Properties 4
PETROENG 1003 Introduction to Petroleum Geosciences 4

* Students who have not taken SACE Stage 2 Specialist Maths will be required to take MATHS 1013/1014 Mathematics IMA/B in lieu of MATHS 1011/1012 Mathematics IA/B. Such students must also take the Level II course MATHS 2004 Mathematics IIM.

The satisfactory completion of Mathematics IIM is in addition to the normal requirements of the B.E.

Second Year (25 units)

APP MTH 2000 Differential Equations and Fourier Series	2
APP MTH 2004 Numerical Methods in Engineering (Chemical)	2
CHEM ENG 1005 Process Heat Transfer	2
CHEM ENG 2000 Chemical Engineering Thermodynamics	2
CHEM ENG 2001 Chemical Process Principles II	3
CHEM ENG 2003 Introductory Process Fluid Mechanics	3
CHEM ENG 2006 Plant and Process Engineering	2
PETROENG 2001 Reservoir Thermodynamics & Fluid Properties	2
PETROENG 2005 Sedimentology & Stratigraphy	2
PETROENG 2007 Production and Facilities Engineering Fundamentals	2
PETROENG 2009 Formation Evaluation, Petrophysics and Rock Properties	3

Third Year (27 units)

CHEM ENG 3003A/B Chemical Engineering Projects III	4
CHEM ENG 3005 Separation Processes	2
CHEM ENG 3006 Transport Phenomena	2
CHEM ENG 3014 Process Design and Plant Engineering	2
CHEM ENG 3015 Process Control and Instrumentation	2
CHEM ENG 3017 Kinetics and Reactor Design	3
PETROENG 3001 Fundamentals of Numerical Reservoir Simulation	2
PETROENG 3002 Economic Evaluations	3
PETROENG 3005 Reservoir Characterisation and Modelling	2
PETROENG 3007 Well Testing & Pressure Transient Analysis	3

Fourth Year (24 units)

CHEM ENG 4003 Process Dynamics and Control	2
CHEM ENG 4009 Advanced Chemical Engineering	2
CHEM ENG 4010 Advanced Separation Techniques & Thermal Processes	2
CHEM ENG 4014 Plant Design Project	6
CHEM ENG 4018 Industrial Economics and Management	2
CHEM ENG 4025 Chemical Engineering Projects IV	2
CHEM ENG 4026 Chemical Engineering Research Project (H)#	2
or	
CHEM ENG 4027 Chemical Engineering Research Project (N)#	2
Chemical Engineering Elective courses to the value of at least 6 units	6

Students accepted into the Honours stream will take Chemical Engineering Research Project (H) and other students will take Chemical Engineering Research Project (N).

Fifth Year (24 units)

Reservoir Engineering

PETROENG 4002 Enhanced Oil Recovery	3
PETROENG 4003 Reservoir Geology for Engineers	2
PETROENG 4004 Petroleum Engineering Honours Project	4
or	
PETROENG 4020 Petroleum Engineering Design project	4
PETROENG 4009 Integrated Reservoir Management	3
PETROENG 4010 Project Management	3
PETROENG 4022 Integrated Field Development Planning and Economic Project	3
PETROENG 4023 Oil & Gas Resources & Reserves	3
PETROENG 4024 Decision-Making and Uncertainty	3

2 Program of study for the direct entry B.E.(Petroleum)/B.E.(Civil & Environmental)

To qualify for the combined award of the degrees of B.E.(Petroleum) and B.E.(Civil & Environmental), candidates are required to complete satisfactorily the courses as indicated below:

First Year (24 units)

C&ENVENG 1000 Engineering Planning & Design	2
C&ENVENG 1001 Statics	2
C&ENVENG 1002 Civil & Environmental Engineering I	2
C&ENVENG 1003 Engineering Modelling and Analysis I	2
CHEM 1100 Chemistry IA	3
ENV BIOL 1002 Environmental Biology I	3
MATHS 1011 Mathematics IA *	3
or	
MATHS 1013 Mathematics IMA *	3
MATHS 1012 Mathematics IB *	3
or	
MATHS 1014 Mathematics IMB *	3
PETROENG 1001 Introduction to Rock & Fluid Properties	4
PETROENG 1003 Introduction to Petroleum Geosciences	4

* Students who have not taken SACE Stage 2 Specialist Maths will be required to take MATHS 1013/1014 Mathematics IMA/B in lieu of MATHS 1011/1012 Mathematics IA/B. Such students must also take the Level II course MATHS 2004 Mathematics IIM. The satisfactory completion of Mathematics IIM is in addition to the normal requirements of the B.E. plan.

Second Year (24 units)

APP MTH 2010 Differential Equations & Statistical Methods (Civil)	3
C&ENVENG 2006 Geotechnical Engineering II	2
C&ENVENG 2026 Environmental Engineering II	2
C&ENVENG 2032 Structural Design IIA	2
C&ENVENG 2033 Water Engineering II S1	2
C&ENVENG 2035 Water Engineering II S2	2
C&ENVENG 2036 Strength of Materials IIE	2

PETROENG 2001 Reservoir Thermodynamics and Fluid Properties	2
PETROENG 2005 Sedimentology and Stratigraphy	2
PETROENG 2007 Production and Facilities Engineering Fundamentals	2
PETROENG 2008 Fundamentals of Reservoir Engineering	3
Third Year (26 units)	
C&ENVENG 2014 Engineering Modelling & Analysis II	2
C&ENVENG 3009 Environmental Engineering and Design III	2
C&ENVENG 3012 Geotechnical Engineering Design III	3
C&ENVENG 3013 Water Engineering and Design IIIA	2
C&ENVENG 3014 Water Engineering and Design IIIB	2
CHEM ENG 3011 Transport Process in the Environment	2
PETROENG 2009 Formation Evaluation, Petrophysics and Rock Properties	3
PETROENG 3001 Fundamentals of Numerical Reservoir Simulation	3
PETROENG 3002 Economic Evaluation	3
PETROENG 3003 Reservoir Engineering	3
Fourth Year (24 units)	
C&ENVENG 4001 Introduction to Environmental Law	3
C&ENVENG 4003A/B Civil Engineering Research Project N #	6
C&ENVENG 4034 Civil Engineering Management IV N	3
Electives to the value of 12 units from the following groups:	
Group II: Water Engineering	
C&ENVENG 4073 Advanced Water Distribution Systems and Design	3
C&ENVENG 4075 Advanced Water Resources Management and Design	3
C&ENVENG 4077 Coastal Engineering and Design	3
Group III: Geotechnical Engineering	
C&ENVENG 4081 Footing Design and Soil Variability	3
Group IV: Management and Planning	
C&ENVENG 4085 Traffic Engineering and Design	3
Group V: Environmental Engineering	
C&ENVENG 4087 Environmental Processes, Modelling and Design	3
C&ENVENG 4091 Waste Management Analysis & Design	3
C&ENVENG 4092 Wastewater Engineering and Design	3

Alternatively, students may substitute up to 3 units of Level II or III courses offered by the School of Mathematical Sciences*.

Students may also, with the approval of the Head of Civil and Environmental Engineering, replace one or more elective courses with appropriate courses offered by other schools within the University.

Students who are not selected for Honours will be required to complete two additional final year specialisation courses instead of the Research Project.

*Fifth Year (24 units) - Reservoir**

Reservoir Engineering	
PETROENG 4002 Enhanced Oil Recovery	3
PETROENG 4003 Reservoir Geology for Engineers	2
PETROENG 4004 Petroleum Engineering Honours Project	4
or	
PETROENG 4020 Petroleum Engineering Design project	4
PETROENG 4009 Integrated Reservoir Management	3
PETROENG 4010 Project Management	3
PETROENG 4022 Integrated Field Development Planning and Economic Project	3
PETROENG 4023 Oil & Gas Resources & Reserves	3
PETROENG 4024 Decision-Making and Uncertainty	3

* Well and Facilities options not offered in 2005

3 Program of study for the direct entry B.E.(Petroleum)/B.E.(Civil & Structural)

To qualify for the combined award of the degrees of B.E.(Petroleum) and B.E.(Civil & Structural), candidates are required to complete satisfactorily the courses as indicated below:

First Year (23 units)

C&ENVENG 1000 Engineering Planning & Design	2
C&ENVENG 1001 Statics	2
C&ENVENG 1002 Civil & Environmental Engineering I	2
C&ENVENG 1003 Engineering Modelling and Analysis I	2
CHEM ENG 1003 Materials I	3
MATHS 1011 Mathematics IA *	3
or	
MATHS 1013 Mathematics IMA *	3
and either	
MATHS 1012 Mathematics IB *	3
or	
MATHS 1014 Mathematics IMB *	3
PETROENG 1000 Introduction to the Petroleum Industry	4
PETROENG 1001 Introduction to Rock & Fluid Properties	4
PHYSICS 1100 Physics IA	3

* Students who have not taken SACE Stage 2 Specialist Maths will be required to take MATHS 1013/1014 Mathematics IMA/B in lieu of MATHS 1011/1012 Mathematics IA/B. Such students must also take the Level II course MATHS 2004 Mathematics IIM. The satisfactory completion of Mathematics IIM is in addition to the normal requirements of the B.E. plan.

Second Year (25 units)

APP MTH 2010 Differential Equations & Statistical Methods (Civil)	3
C&ENVENG 2006 Geotechnical Engineering II	2

C&ENVENG 2025 Strength of Materials II A	2
C&ENVENG 2032 Structural Design IIA	2
C&ENVENG 2033 Water Engineering II S1	2
C&ENVENG 2034 Structural Design IIB	2
C&ENVENG 2035 Water Engineering II S2	2
PETROENG 2001 Reservoir Thermodynamics and Fluid Properties	2
PETROENG 2005 Sedimentology and Stratigraphy	2
PETROENG 2007 Production and Facilities Engineering Fundamentals	2
PETROENG 2008 Fundamentals of Reservoir Engineering	3

Third Year (26 units)

C&ENVENG 3001 Structural Mechanics IIIA	2
C&ENVENG 3005 Structural Design III (Concrete)	2
C&ENVENG 3007 Structural Design III (Steel)	2
C&ENVENG 3012 Geotechnical Engineering Design III	3
C&ENVENG 3014 Water Engineering and Design IIIB	2
PETROENG 2009 Formation Evaluation, Petrophysics and Rock Properties	3
PETROENG 3001 Fundamentals of Numerical Reservoir Simulation	3
PETROENG 3002 Economic Evaluation	3
PETROENG 3018 Drilling Engineering and Well Completion	3

Fourth Year (24 units)

C&ENVENG 3013 Water Engineering and Design IIIA	3
C&ENVENG 4003A/B Civil Engineering Research Project N #	6
C&ENVENG 4034 Civil Engineering Management IV N	3

Electives to the value of 12 units from the following groups: At least 2 courses must be taken from one group.

Group I: Structural Engineering

C&ENVENG 4066 Design of Composite Structures	3
C&ENVENG 4069 Design of Concrete Structures	3
C&ENVENG 4070 Earthquake Engineering and Design	3
C&ENVENG 4094 Fundamental Steel Design	3

Group II: Water Engineering

C&ENVENG 4073 Advanced Water Distribution Systems and Design	3
C&ENVENG 4075 Advanced Water Resources Management and Design	3
C&ENVENG 4077 Coastal Engineering and Design	3

Group III: Geotechnical Engineering

C&ENVENG 4081 Footing Design and Soil Variability	3

Group IV: Management and Planning

C&ENVENG 4085 Traffic Engineering and Design	3

Group V: Environmental Engineering

C&ENVENG 4087 Environmental Processes, Modelling and Design	3
C&ENVENG 4091 Waste Management Analysis & Design	3
C&ENVENG 4092 Wastewater Engineering and Design	3

Alternatively, students may substitute up to 3 units of Level II or III courses offered by the School of Mathematical Sciences.

Students may also, with the approval of the Head of Civil and Environmental Engineering, replace one or more elective courses with appropriate courses offered by other schools within the University.

Students who are not selected for Honours will be required to complete two additional final year specialisation courses instead of the Research Project.

*Fifth Year (24 units) - Reservoir**

Reservoir Engineering

PETROENG 4002 Enhanced Oil Recovery	3
PETROENG 4003 Reservoir Geology for Engineers	2
PETROENG 4004 Petroleum Engineering Honours Project	4

or

PETROENG 4020 Petroleum Engineering Design project	4
PETROENG 4009 Integrated Reservoir Management	3
PETROENG 4010 Project Management	3
PETROENG 4022 Integrated Field Development Planning and Economic Project	3
PETROENG 4023 Oil & Gas Resources & Reserves	3
PETROENG 4024 Decision-Making and Uncertainty	3

* Well and Facilities options not offered in 2005

4 Program of study for the direct entry B.E.(Petroleum)/B.Sc.(Geology & Geophysics)

To qualify for the combined award of the degrees of B.E.(Petroleum) and B.Sc.(Geology & Geophysics), candidates are required to complete satisfactorily the courses as indicated below:

First Year (25 units)

C&ENVENG 1001 Statics	2
CHEM ENG 1000 Process Systems	2
CHEM ENG 1002 Engineering Computing I	2
GEOLOGY 1100 Earth's Interior I	3
GEOLOGY 1200 Earth's Environment I	3

either

MATHS 1011 Mathematics IA *	3

and

MATHS 1012 Mathematics IB *	3

or

MATHS 1013 Mathematics IMA *	3

and

	MATHS 1014 Mathematics 1MB *	3
	PETROENG 1000 Introduction to the Petroleum Industry	2
	PETROENG 1001 Introduction to Rock & Fluid Properties	3
	PHYSICS 1100 Physics IA	3

* Students who have not taken SACE Stage 2 Specialist Maths will be required to take MATHS 1013/1014 Mathematics IMA/B in lieu of MATHS 1011/1012 Mathematics IA/B. Such students must also take the Level II course MATHS 2004 Mathematics IIM. The satisfactory completion of Mathematics IIM is in addition to the normal requirements of the B.E. plan.

Second Year (25 units)

APP MTH 2000 Differential Equations & Fourier Series	2
APP MTH 2009 Numerical Analysis and Probability and Statistics	2
C&ENVENG 2001 Stress Analysis (C)	2
CHEM ENG1000 Process Systems *	2
ELEC ENG 1006 Electrical Engineering 1	3
GEOLOGY 3007 Surficial Geology II	4
MECH ENG 2021 Thermo-fluids I	3
PETROENG 2001 Reservoir Thermodynamics and Fluid Properties	2
PETROENG 2005 Sedimentology & Stratigraphy	2
PETROENG 2006 Formation Evaluation, Petrophysics and Rock Properties	3

* Students who have satisfactorily completed this course should enrol in PETROENG 2008 Fundamentals of Reservoir Engineering.

Third Year (26 units)

GEOLOGY 2006 Igneous and Metamorphic Geology	4
GEOLOGY 2007 Sedimentology and Structural Geology II	4
PETROENG 3001 Fundamentals of Numerical Reservoir Simulation	3
PETROENG 3002 Economic Evaluation	3
PETROENG 3003 Reservoir Engineering	3
PETROENG 3005 Reservoir Characterisation & Modelling	3
PETROENG 3018 Drilling Engineering and Well Completion	3
PETROENG 3019 Structural Geology & Seismic Methods	3

Fourth Year (24 units)

GEOLOGY 3004 Igneous and Metamorphic Petrology III	3
GEOLOGY 3008 Theoretical Geophysics III	3
GEOLOGY 3010 Remote Sensing (S)	3
GEOLOGY 3013 Tectonics III	3
GEOLOGY 3014 Surficial Geology III	3
GEOLOGY 3017 Petroleum Exploration III	3
GEOLOGY 3018 Mineral Exploration III	3
GEOLOGY 3019 Field Geoscience Program III	3

*Fifth Year (24 units) - Reservoir **

PETROENG 4002 Enhanced Oil Recovery	2
PETROENG 4004 Petroleum Engineering Honours Project	4
or	
PETROENG 4020 Petroleum Engineering Design project	4
PETROENG 4009 Integrated Reservoir Management	3
PETROENG 4010 Project Management	3
PETROENG 4022 Integrated Field Development Planning and Economic Project	3
PETROENG 4023 Oil & Gas Resources & Reserves	3
PETROENG 4024 Decision-Making and Uncertainty	3

* Well and Facilities options not offered in 2005.

5 Program of study for the direct entry B.E.(Petroleum)/B.E.(Mechanical)

To qualify for the combined award of the degrees of B.E.(Petroleum) and B.E.(Mechanical), candidates are required to complete satisfactorily the courses as indicated below:

First Year (26 units)

C&ENVENG 1001 Statics	2
CHEM ENG 1002 Engineering Computing 1	2
CHEM ENG 1003 Materials I	2
ELEC ENG 1006 Electrical Engineering 1	3
either	
MATHS 1011 Mathematics IA *	3
or	
MATHS 1013 Mathematics IMA *	3
and either	
MATHS 1012 Mathematics IB *	3
or	
MATHS 1014 Mathematics 1MB *	3
MECH ENG 1000 Dynamics	2
MECH ENG 1001 Design Graphics	2
PETROENG 1001 Introduction to Rock and Fluid Properties	2
PETROENG 1003 Introduction to Petroleum Geosciences	2
PHYSICS 1100 Physics IA	3

* Students who have not taken SACE Stage 2 Specialist Maths will be required to take MATHS 1013/1014 Mathematics IMA/B in lieu of MATHS 1011/1012 Mathematics IA/B. Such students must also take the Level II course MATHS 2004 Mathematics IIM. The satisfactory completion of Mathematics IIM is in addition to the normal requirements of the B.E.

Second Year (26 units)

APP MTH 2000 Differential Equations and Fourier Series	2
APP MTH 2004 Numerical Methods in Engineering (Chemical)	2
MECH ENG 2002 Stress Analysis and Design	3
MECH ENG 2018 Design Practice	4
MECH ENG 2019 Dynamics & Control I	3

MECH ENG 2021 Thermo-Fluids 1	3
PETROENG 2001 Reservoir Thermodynamics & Fluid Properties	2
PETROENG 2005 Sedimentology and Stratigraphy	2
PETROENG 2007 Production and Facilities Engineering Fundamentals	2
PETROENG 2009 Formation Evaluation, Petrophysics and Rock Properties	3
Third Year (25 units)	
ELEC ENG 3023 Electric Energy Systems M	2
MECH ENG 3020 Heat Transfer	2
MECH ENG 3027 Design and Communication	3
MECH ENG 3030 Structural Design & Solid Mechanics	3
MECH ENG 3031 Thermo-Fluids II	3
PETROENG 3001 Fundamentals of Numerical Reservoir Simulation	3
PETROENG 3002 Economic Evaluation	3
PETROENG 3003 Reservoir Engineering	3
PETROENG 3018 Drilling Engineering and Well Completion	3
Fourth Year (25 units)	
MECH ENG 2020 Materials & Manufacturing	3
MECH ENG 3017 Engineering and the Environment	2
MECH ENG 4007A/B Mechanical Project Level IV #	8
or	
MECH ENG 4041A/B Design Project Level IV #	8
Mechanical Engineering Elective courses to the value of at least 12 units	12

Students accepted into the Honours stream will take Mechanical Project Level 4 and other students will take Design Project Level IV.

*Fifth Year (24 units) - Reservoir**	
PETROENG 4002 Enhanced Oil Recovery	3
PETROENG 4003 Reservoir Geology for Engineers	2
PETROENG 4004 Petroleum Engineering Honours Project	4
or	
PETROENG 4020 Petroleum Engineering Design project	4
PETROENG 4009 Integrated Reservoir Management	3
PETROENG 4010 Project Management	3
PETROENG 4022 Integrated Field Development Planning and Economic Project	3
PETROENG 4023 Oil & Gas Resources & Reserves	3
PETROENG 4024 Decision-Making and Uncertainty	3

* Well and Facilities options not offered in 2005

6 Program of study for the direct entry B.E.(Petroleum)/B.Sc.(Physics)

To qualify for the combined award of the degrees of B.E.(Petroleum) and B.Sc.(Physics) candidates are required to complete satisfactorily the courses as indicated below:

First Year (24 units)	
C&ENVENG 1001 Statics	2
GEOLOGY 1100 Earth's Interior I	3
GEOLOGY 1200 Earth's Environment I	3
either	
MATHS 1011 Mathematics IA *	3
or	
MATHS 1013 Mathematics IMA *	3
and either	
MATHS 1012 Mathematics IB *	3
or	
MATHS 1014 Mathematics 1MB *	3
PETROENG 1001 Introduction to Rock and Fluid Properties	2
PETROENG 1003 Introduction to Petroleum Geosciences	2
PHYSICS 1100 Physics IA	3
PHYSICS 1200 Physics IB	3

* Students who have not taken SACE Stage 2 Specialist Maths will be required to take MATHS 1013/1014 Mathematics IMA/IMB in lieu of MATHS 1011/1012 Mathematics IA/IB. Such students must also take the Level II course MATHS 2004 Mathematics IIM. The satisfactory completion of Mathematics IIM is in addition to the normal requirement of the B.E. plan.

Second Year (27 units)	
APP MTH 2000 Differential Equations & Fourier Series	2
APP MTH 2002 Vector Analysis and Complex Analysis	2
APP MTH 2009 Numerical Analysis and Probability and Statistics	2
ELEC ENG 1006 Electrical Engineering 1	3
PETROENG 2001 Reservoir Thermodynamics and Fluid Properties	2
PETROENG 2005 Sedimentology & Stratigraphy	2
PETROENG 2008 Fundamentals of Reservoir Engineering	3
PETROENG 2009 Formation Evaluation, Petrophysics and Rock Properties	2
PHYSICS 2100 Physics IIA	4
PHYSICS 2200 Physics IIB	4
Third Year (28 units)	
PETROENG 3001 Fundamentals of Numerical Reservoir Simulation	2
PETROENG 3002 Economic Evaluation	3
PETROENG 3003 Reservoir Engineering	2
PETROENG 3005 Reservoir Characterisation & Modelling	3
PETROENG 3007 Well Testing & Pressure Transient Analysis	2

PETROENG 3018 Drilling Engineering and Well Completion 3
PETROENG 3019 Structural Geology & Seismic Methods 3
PETROENG 3020 Production Optimisation & Project 3
PHYSICS 2001 Classical Mechanics II 2
PHYSICS 2002 Classical Fields and Mathematical Methods II 2

Fourth Year (24 units)

PHYSICS 3000 Computational Physics III 2
PHYSICS 3001 Electromagnetism and Optics 3
PHYSICS 3002 Experimental Physics III 3
PHYSICS 3003 Mathematical Physics III 2
PHYSICS 3004 Quantum Mechanics III 3
PHYSICS 3006 Advanced Dynamics and Relativity 3
PHYSICS 3008 Physics of Solid State Devices 2
PHYSICS 3009 Statistical Mechanics III 2
PHYSICS 3022 Applied Quantum Mechanics III 2
PHYSICS 3023 Space Science & Astrophysics III 2

*Fifth Year (24 units) - Reservoir**

PETROENG 4002 Enhanced Oil Recovery 3
PETROENG 4003 Reservoir Geology for Engineers 2
PETROENG 4004 Petroleum Engineering Honours Project 4

or

PETROENG 4020 Petroleum Engineering Design project 4
PETROENG 4009 Integrated Reservoir Management 2
PETROENG 4010 Project Management 2
PETROENG 4022 Integrated Field Development Planning and Economic Project 3
PETROENG 4023 Oil & Gas Resources & Reserves 3
PETROENG 4024 Decision-Making and Uncertainty 3

* Well and Facilities options not offered in 2005.

6.5.11 Telecommunications Engineering

Candidates are required to complete satisfactorily courses to the value of 24 units at each of Levels I, II, III and IV:

Level I

COMP SCI 1008 Computer Science IA 3
COMP SCI 1009 Computer Science IB 3
ELEC ENG 1006 Electrical Engineering I 3
ELEC ENG 1007 Engineering Planning, Design and Communication 3
MATHS 1011 Mathematics IA 3
MATHS 1012 Mathematics IB 3
PHYSICS 1100 Physics IA 3
PHYSICS 1200 Physics IB 3

Level II

APP MTH 2000 Differential Equations & Fourier Series 2
APP MTH 2002 Vector Analysis and Complex Analysis 2
COMP SCI 2000 Computer Systems 3
COMP SCI 2004 Data Structures and Algorithms 3
ELEC ENG 2007 Signals and Systems 3
ELEC ENG 2008 Electronics II 3
ELEC ENG 2009 Engineering Electromagnetics 3
ELEC ENG 2010A/B Practical Electronic Design II 3
STATS 2004 Laplace Transforms and Probability and Statistical Methods 2

Level III

APP MTH 3016 Telecommunications Systems Modelling III 3
COMP SCI 3006 Software Engineering and Project 3
ELEC ENG 3012 Engineering Communication ESL (E)* 2
ELEC ENG 3015 Communications, Signals and Systems 3
ELEC ENG 3016 Control III 3
ELEC ENG 3017 Digital Electronics 3
ELEC ENG 3018 RF Engineering III 3
ELEC ENG 3019A/B Practical Electrical and Electronic Design III 3
ELEC ENG 3020 Embedded Computer Systems 3

* Available only to students whose native language is not English; may be presented in lieu of an elective at Level IV.

Level IV

COMP SCI 3001 Computer Networks & Applications 3
ELEC ENG 4035 Communications IV 2
ELEC ENG 4036A/B Design Project# 6

or

ELEC ENG 4039A/B Honours Project# 6
ELEC ENG 4038 Financial Management for Engineers 2
ELEC ENG 4040 Management & Professional Practice for Engineers 2
ELEC ENG 4045 Signal Processing IV 2
ELEC ENG 4046 Telecommunications IV 2
STATS 4001 Reliability & Quality Control 2
Elective courses to the value of at least 3 units 3

Electives*

APP MTH 4012 Communication Network Design 2
COMP SCI 3004 Operating Systems 3
COMP SCI 3005 Computer Architecture 3
ELEC ENG 3021 Electric Energy Systems 3
ELEC ENG 3022 Real Time Systems IV 3

ELEC ENG 4004 Electrical Engineering Research	2
ELEC ENG 4032 Advanced Electromagnetics	2
ELEC ENG 4033 Advanced Telecommunications	2
ELEC ENG 4034 Analog Microelectronics	2
ELEC ENG 4037 Digital Microelectronics	2
ELEC ENG 4041 Optical Communication Engineering	2
ELEC ENG 4042 Power Electronics & Drive Systems	2
ELEC ENG 4043 Power Quality & Condition Monitoring	2
ELEC ENG 4044 RF Engineering IV	2
ELEC ENG 4047 Topics in Electrical and Electronic Engineering	2
PHYSICS 3008 Physics of Solid State Devices	2
PURE MTH 3006 Coding and Cryptology III	2
or	
PURE MTH 3018 Coding and Cryptology III (Extended)	3

Students accepted into the Honours stream will take Honours Project and other students will take Design Project Level IV.

* Not all courses offered are offered each year.

Law courses**

LAW 1001 Introduction to Australian Law	4
LAW 1002 Law of Torts	4
LAW 1003 Law of Contract	4
LAW 1004 Law of Crime	4
LAW 1005 Property Law	4
Law electives	

** available only to students who have been admitted to the LL.B. program. Students may present these courses towards their Bachelor of Engineering in accordance with the scheme of study set out in note 1 below.

Notes:

1 Law Studies within the B.E.(Telecomm.) program

To qualify for the award of the degree of B.E.(Telecomm.) and the degree of LL.B, candidates are required to complete satisfactorily courses below:

First Year (25 units)

COMP SCI 1008 Computer Science IA	3
COMP SCI 1009 Computer Science IB	3
ELEC ENG 1006 Electrical Engineering I	3
LAW 1001 Introduction to Australian Law	4
either	
MATHS 1011 Mathematics IA *	3
or	
MATHS 1013 Mathematics IMA *	3
and either	
MATHS 1012 Mathematics IB *	3
or	
MATHS 1014 Mathematics IMB *	3
PHYSICS 1100 Physics IA	3
PHYSICS 1200 Physics IB	3

* Students who have not taken SACE Stage 2 Specialist Maths will be required to take MATHS 1013/1014 Mathematics IMA/B in lieu of MATHS 1011/1012 Mathematics IA/B. Such students must also take the Level II course MATHS 2004 Mathematics IIM. The satisfactory completion of Mathematics IIM is in addition to the normal requirements of the B.E. plan.

Second Year (23 units)

APP MTH 2000 Differential Equations and Fourier Series	2
APP MTH 2002 Vector Analysis and Complex Analysis	2
COMP SCI 2004 Data Structures and Algorithms	3
ELEC ENG 1007 Engineering Planning, Design & Communication	3
ELEC ENG 2007 Signals and Systems	3
LAW 1002 Law of Torts	4
LAW 1003 Law of Contract	4
STATS 2004 Laplace Transforms and Probability and Statistical Methods	2

Third Year (27 units)

COMP SCI 2000 Computer Systems	3
ELEC ENG 2008 Electronics II	3
ELEC ENG 2009 Engineering Electromagnetics	3
ELEC ENG 2010A/B Practical Electronic Design II	3
ELEC ENG 3015 Communications, Signals and Systems	3
LAW 1004 Law of Crime	4
LAW 1005 Property Law	4
Law electives *	4

Fourth Year (27 units)

APP MTH 3016 Telecommunications Systems Modelling III	3
COMP SCI 3006 Software Engineering and Project	3
ELEC ENG 3016 Control III	3
ELEC ENG 3017 Digital Electronics	3
ELEC ENG 3018 RF Engineering III	3
ELEC ENG 3019A/B Practical Electrical & Electronic Design III	3
ELEC ENG 3020 Embedded Computer Systems	3
Law Courses*	6

Fifth Year (26 units)

ELEC ENG 4036A/B Design Project #	6
or	
ELEC ENG 4039A/B Honours Project #	6
ELEC ENG 4046 Telecommunications IV	2
Engineering elective courses to the value of at least 4 units	4
Law courses* to the value of 14 units	14

Students accepted into the Honours stream will take Honours Project and other students will take Design Project.

* Students should consult the Law School at enrolment for advice on course selection.

Note: to complete the B.E.(Telecomm.) and LL.B. degree programs in minimum time, candidates are required to take all these courses even though it involves an overload.

Later Years

In accordance with the Academic Program Rules for the LL.B.

2 Direct Entry B.E. (Telecomm.)/B.Ma. & Comp. Sc.

Refer to Academic Program Rule 6.4.3 for the requirements of this program.

3 Arts Studies combined with the B.E.(Telecomm.)

(see also section 6.4.4 of these Rules)

To qualify for the award of the degrees of B.E. (Telecomm.) and B.A., candidates are required to complete satisfactorily courses listed below:

First Year (24 units)

COMP SCI 1008 Computer Science IA	3
COMP SCI 1009 Computer Science IB	3
ELEC ENG 1006 Electrical Engineering I	3
ELEC ENG 1007 Engineering Planning, Design and Communication	3
either	
MATHS 1011 Mathematics IA *	3
or	
MATHS 1013 Mathematics IMA *	3
and either	
MATHS 1012 Mathematics IB *	3
or	
MATHS 1014 Mathematics IMB *	3
PHYSICS 1100 Physics IA	3
PHYSICS 1200 Physics IB	3

* Students who have not taken SACE Stage 2 Specialist Maths will be required to take MATHS 1013/1014 Mathematics IMA/B in lieu of MATHS 1011/1012 Mathematics IA/B. Such students must also take the Level II course MATHS 2004 Mathematics IIM. The satisfactory completion of Mathematics IIM is in addition to the normal requirements of the B.E. plan.

Second Year (24 units)

Level I Arts course(s) to the value of 6 units	6
APP MTH 2000 Differential Equations and Fourier Series	2
APP MTH 2002 Vector Analysis and Complex Analysis	2
COMP SCI 2000 Computer Systems	3
ELEC ENG 2007 Signals and Systems	3
ELEC ENG 2008 Electronics II	3
ELEC ENG 2010A/B Practical Electronic Design II	3
STATS 2004 Laplace Transforms and Probability and Statistical Methods	2

Third Year (23 units)

Level II Arts course(s)	8
COMP SCI 2004 Data Structures and Algorithms	3
ELEC ENG 2009 Engineering Electromagnetics	3
ELEC ENG 3015 Communications, Signals and Systems	3
ELEC ENG 3017 Digital Electronics	3
ELEC ENG 3020 Embedded Computer Systems	3

Fourth Year (24 units)

Level III Arts Courses	12
APP MTH 3016 Telecommunications Systems Modelling III	3
COMP SCI 3006 Software Engineering and Project	3
ELEC ENG 3018 RF Engineering III	3
ELEC ENG 3019A/B Practical Electrical & Electronic Design III	3

Fifth Year (26 units)

Arts Courses	6
COMP SCI 3001 Computer Networks & Applications	3
ELEC ENG 3016 Control III	3
ELEC ENG 4035 Communications IV	2
ELEC ENG 4036A/B Design Project #	6
or	
ELEC ENG 4039A/B Honours Project #	6
ELEC ENG 4040 Management & Professional Practice for Engineers	2
ELEC ENG 4045 Signal Processing IV	2
ELEC ENG 4046 Telecommunications IV	2

Students accepted into the Honours stream will take Honours Project and other students will take Design Project.

4 Program of study for the direct entry B.E.(Telecomm.)/B.Ec. program

To qualify for both the award of the degree of B.E.(Telecomm.) and the degree of B.Ec., candidates are required to complete satisfactorily courses listed below:

First Year (24 units)

COMP SCI 1008 Computer Science IA	3
COMP SCI 1009 Computer Science IB	3
ECON 1004 Principles of Microeconomics I	3
ELEC ENG 1006 Electrical Engineering I	3
either	
MATHS 1011 Mathematics IA *	3
or	
MATHS 1013 Mathematics IMA *	3
and either	
MATHS 1012 Mathematics IB *	3
or	
MATHS 1014 Mathematics IMB *	3
PHYSICS 1100 Physics IA	3
PHYSICS 1200 Physics IB	3

* Students who have not taken SACE Stage 2 Specialist Maths will be required to take MATHS 1013/1014 Mathematics IMA/B in lieu of MATHS 1011/1012 Mathematics IA/B. Such students must also take the Level II course MATHS 2004 Mathematics IIM. The satisfactory completion of Mathematics IIM is in addition to the normal requirements of the B.E. plan.

Note: the B.Ec. degree requirement that students take ECON 1008 Business Data Analysis I (3 units) will be considered satisfied by students taking COMP SCI 1008/1009 Computer Science IA/B at Level I and STATS 2004 Laplace Transforms and Probability and Statistical Methods at Level II.

Second Year (25 units)

APP MTH 2000 Differential Equations and Fourier Series	2
APP MTH 2002 Vector Analysis and Complex Analysis	2
COMP SCI 2004 Data Structures and Algorithms	3
ECON 1000 Principles of Macroeconomics I	3
ECON 2006 Economic & Financial Data Analysis II	4
ELEC ENG 2007 Signals and Systems	3
ELEC ENG 2008 Electronics II	3
ELEC ENG 2010A/B Practical Electronic Design II	3
STATS 2004 Laplace Transforms and Probability and Statistical Methods	2

Third Year (26 units)

COMP SCI 2000 Computer Systems	3
ECON 2009 Consumers, Firms and Markets II	4
ECON 2011 Macroeconomic Theory and Policy II	4
ELEC ENG 2009 Engineering Electromagnetics	3
ELEC ENG 3015 Communications Signals and Systems	3
ELEC ENG 3016 Control III	3
ELEC ENG 3017 Digital Electronics	3
ELEC ENG 3020 Embedded Computer Systems	3

Fourth Year (24 units)

APP MTH 3016 Telecommunications Systems Modelling III	3
COMMGMT 2007 Organisational Behaviour II	4
COMP SCI 3006 Software Engineering and Project	3
ELEC ENG 3018 RF Engineering III	3
ELEC ENG 3019A/B Practical Electrical & Electronic Design III	3
Plus at least 8 units of Level III Economics courses chosen from those listed in Academic Program Rule 4.7.1 of the degree of Bachelor of Economics	8

Note: B.Ec. students currently must take an Economic History course to qualify for the B.Ec. degree. Please refer to the Academic Program Rules of the B.Ec. degree.

Fifth Year (27 units)

COMP SCI 3001 Computer Networks & Applications	3
ELEC ENG 4035 Communications IV	2
ELEC ENG 4036A/B Design Project #	6
or	
ELEC ENG 4039A/B Honours Project#	6
ELEC ENG 4045 Signal Processing IV	2
ELEC ENG 4046 Telecommunications IV	2
Plus at least 12 units of Level III Economics courses chosen from those listed in Academic Program Rule 4.7.1 of the degree of Bachelor of Economics	12

Students accepted into the Honours stream will take Honours Project and other students will take Design Project.

5 Program of study for the direct entry B.E.(Telecomm.)/B.Fin. program

To qualify for both the award of the degree of B.E.(Telecomm.) and the degree of B.Fin., candidates are required to complete satisfactorily courses listed below:

First Year (24 units)

COMP SCI 1008 Computer Science IA	3
COMP SCI 1009 Computer Science IB	3
ECON 1004 Principles of Microeconomics I	3
ELEC ENG 1006 Electrical Engineering I	3
either	
MATHS 1011 Mathematics IA *	3
or	
MATHS 1013 Mathematics IMA *	3
and either	
MATHS 1012 Mathematics IB *	3
or	
MATHS 1014 Mathematics IMB *	3
PHYSICS 1100 Physics IA	3
PHYSICS 1200 Physics IB	3

* Students who have not taken SACE Stage 2 Specialist Maths will be required to take MATHS 1013/1014 Mathematics IMA/B in lieu of MATHS 1011/1012 Mathematics IA/B. Such students must also take the Level II course MATHS 2004 Mathematics IIM. The satisfactory completion of Mathematics IIM is in addition to the normal requirements of the B.E. plan.

Note: The B.Fin. degree requirement that students take ECON 1008 Business Data Analysis I or STATS1000 Statistical Practice I (3 units) will be considered satisfied by students taking COMP SCI 1008/1009 Computer Science IA/B at Level I and STATS 2004 Laplace Transforms and Probability and Statistical Methods at Level II.

Second Year (24 units)

APP MTH 2000 Differential Equations and Fourier Series	2
APP MTH 2002 Vector Analysis and Complex Analysis	2
COMP SCI 2004 Data Structures and Algorithms	3
ECON 1000 Principles of Macroeconomics I	3
ELEC ENG 2007 Signals and Systems	3
ELEC ENG 2008 Electronics II	3
ELEC ENG 2010A/B Practical Electronic Design II	3
FINANCE 1000 International Financial Institutions and Markets I	3

STATS 2004 Laplace Transforms and Probability and Statistical Methods	2
Third Year (26 units)	
ACCTING 1002 Accounting for Decision Makers I	3
COMP SCI 2000 Computer Systems	2
CORPFIN 2006 Business Finance II	4
ELEC ENG 2009 Engineering Electromagnetics	3
ELEC ENG 3015 Communications, Signals and Systems	3
ELEC ENG 3017 Digital Electronics	3
ELEC ENG 3020 Embedded Computer Systems	3
STATS 2002 Introduction to Mathematical Statistics II	2
STATS 2003 Statistical Practice II	2
Fourth Year (27 units)	
APP MTH 3016 Telecommunications Systems Modelling III	3
COMP SCI 3006 Software Engineering and Project	3
ECON 2012 Financial Economics II	4
ELEC ENG 3016 Control III	3
ELEC ENG 3018 RF Engineering III	3
ELEC ENG 3019A/B Practical Electrical & Electronic Design III	3
Plus at least 8 units of Level III Finance courses chosen from those listed in Academic Program Rule 4.9.1 of the degree of Bachelor of Finance.	8
Fifth Year (24 units)	
ELEC ENG 4036A/B Design Project #	6
or	
ELEC ENG 4039A/B Honours Project#	6
Engineering Electives to the value of at least 5 units	5
Plus at least 12 units of Level III Finance courses chosen from those listed in Academic Program Rule 4.9.1 of the degree of Bachelor of Finance including:	
CORPFIN 3009 Portfolio Theory and Management III	4
and either	
APP MTH 3011 Financial Modelling Techniques II	4
or	
CORPFIN 3013 Options, Futures and Risk Management III	4

Students accepted into the Honours stream will take Honours Project and other students will take Design Project.

6.6 Unacceptable combinations of courses

No candidate will be permitted to count towards an award any course, together with any other course, which, in the opinion of the Faculty concerned, contains a substantial amount of the same material; and no course or portion of a course may be counted twice towards an award.

6.7 Graduation

Subject to Chapter 89 of the Statutes, candidates who have satisfied the requirements for any award of the University shall be admitted to that award at a graduation ceremony for the purpose.

7 Special circumstances

When in the opinion of the relevant Faculty special circumstances exist, the Council, on the recommendation of the Faculty in each case, may vary any of the provisions of the Academic Program Rules for any particular award.

Bachelor of Engineering (Aerospace) – Graduate Attributes
Bachelor of Engineering (Automotive) – Graduate Attributes
Bachelor of Engineering (Mechanical) – Graduate Attributes
Bachelor of Engineering (Mechatronic) – Graduate Attributes

The objectives of the undergraduate programs in Aerospace, Automotive, Mechanical and Mechatronic Engineering are to support the mission of the University of Adelaide to provide an inclusive curriculum that allows all students to learn and progress unhindered through the program, and to produce graduates who:

- Have advanced and internationally recognised skills, understanding and knowledge (scientific knowledge, problem solving skills, IT skills, analytical skills, in-depth technical competence, communication skills and flexibility) necessary for a successful career in Aerospace, Mechanical or Mechatronic Engineering.
- Have the ability to locate, analyse evaluate and synthesize information from a wide variety of sources in a planned and timely manner.
- Can contribute as effective members of multi-disciplinary and multi-cultural teams with the capacity to be a leader or manager as well as an effective team member with skills of a high order in interpersonal understanding, teamwork and communication.
- Have a commitment to continuous learning and the capacity to maintain intellectual curiosity throughout life and are able, by self directed study, to remain up to date with developments in their profession.
- Have an ability to apply effective, creative and innovative solution, both independently and cooperatively, to current and future problems and are able to guide developments in the profession.
- Understand the context in which they work (economics, finance, teamwork, competition) while remaining committed to the highest standard of professional endeavour, not losing sight of the need for technical excellence and environmental responsibility.
- Can communicate with government and the community on engineering issues.
- Are educated in a broad sense, are socially, environmentally, ethically and professionally responsible, understand the need for and the principles of sustainable development, are well informed and have an ability to take a leadership role their place as leaders in the community.
- Are familiar with current best practice in aerospace, mechanical or mechatronic engineering.
- Are capable of synthesising fundamental engineering science and engineering practice in the creation of engineering systems and have the ability to utilise a systems approach to design and operational performance.

Included in the above attributes are those required by Engineers Australia who accredit our programs. These have been specified by Engineers Australia and require that graduates have:

- Ability to apply knowledge of basic science and engineering fundamentals.
- Ability to communicate effectively, not only with engineers but also with the community at large.
- In-depth technical competence in at least one engineering discipline.
- Ability to undertake problem identification, formulation and solution.

- Ability to utilise a systems approach to design and operational performance.
- Ability to function effectively as an individual and in multidisciplinary and multicultural teams, with the capacity to be a leader or manager as well as an effective team member.
- Understanding of the social, cultural, global, and environmental responsibilities of the professional engineer, and the need for sustainable development.
- Understanding of the principles of sustainable development.
- Understanding of professional and ethical responsibilities and commitment to them.
- Expectations of the need to undertake lifelong learning, and the capacity to do so.

Bachelor of Engineering (Chemical) – Graduate Attributes

- The ability to apply knowledge of basic science and engineering fundamentals.
- Ability to communicate effectively, not only with engineers but also with the community at large.
- In-depth technical competence in at least one engineering discipline.
- Ability to utilise a systems approach to design and operational performance.
- Ability to function effectively as an individual and in multi-disciplinary and multicultural teams; with the capacity to be a leader or manager as well as an effective team manager.
- Understanding the social, cultural, global and environmental responsibilities of the professional engineer, and the need for sustainable development.
- Understanding of professional and ethical responsibilities and commitment to them; and expectation of the need to undertake lifelong learning, and capacity to do so.
- Ability to focus on the integration of process safety considerations with environmental concerns, waste minimisation, and control system specifications.
- Confidence to tackle real-world problems and issues central to engineering and to work as individuals and cooperatively in multidisciplinary and multicultural teams.
- Enthusiasm and interest for undertaking life-long learning and the continual updating of their engineering skills.

Bachelor of Engineering (Civil & Environmental) – Graduate Attributes
Bachelor of Engineering (Civil & Structural) – Graduate Attributes

Technical knowledge and application of knowledge skills

- Competence in engineering fundamentals.
- Competence in at least two of the following areas of Civil and Environmental Engineering: Structural engineering,Environmental engineering, Water engineering, Geotechnical engineering.
- Competence in using computers and information technology effectively.
- Ability to apply an integrative or systems approach to solving engineering problems.
- Ability to prepare and interpret engineering sketches and drawings.
- Awareness of uncertainty and recognising limitations of engineering approaches and systems.
- Awareness for the need for sustainable systems and principles of sustainable design.
- Awareness of the assessment and the management of risk.

Thinking skills

- Competence in problem identification, formulation and solution.
- Competence in critical, independent, creative and innovative thinking.
- Ability to effectively synthesise information and ideas.
- Ability to conduct investigations and research into Civil and Environmental Engineering problems.

Technical Professional skills

- Familiarity with project management skills.
- Awareness of business and financial management.
- Awareness of human resources management issues.
- Awareness of legal issues in relation to Civil and Environmental Engineering.

Personal skills and attitudes

- Competence to adapt to a changing society (lifelong learning skills).
- Ability to act in a professional manner.
- Ability to communicate effectively within the engineering profession and the community – written, oral and listening skills.
- Ability to take on a leadership role.
- Ability to work effectively as a member of a team.
- Ability to manage effectively the allocation of time in performing tasks.
- Ability to work comfortably with other disciplines.
- Awareness of engineering ethics.
- Awareness of the social, cultural, political, international and environmental context of professional engineering practice.

Bachelor of Engineering (Computer Systems) – Graduate Attributes
Bachelor of Engineering (Electrical & Electronic) – Graduate Attributes
Bachelor of Engineering (Telecomm.) – Graduate Attributes

- An advanced level of knowledge and understanding of the theory and practice of Electrical and Electronic, Computer Systems or Telecommunications Engineering and the fundamentals of science and mathematics that underpin these disciplines.
- A commitment to maintain an advanced level of knowledge throughout a lifetime of engineering practice and the skills to do so.
- The ability to apply knowledge in a systematic and creative fashion to the solution of practical problems.
- A commitment to the ethical practice of engineering and the ability to practice in a responsible manner that is sensitive to social, cultural, global, legal, professional and environmental issues.
- Interpersonal and communication skills for effective interaction with colleagues and the wider community.
- An ability to work effectively both independently and cooperatively as a leader, manager or team member with multi-disciplinary or multi-cultural teams.
- An ability to identify, formalise, model and analyse problems.
- The capacity to design, optimise, implement, test and evaluate solutions.
- An ability to plan, manage and implement solutions that balance considerations of economy, quality, timeliness and reliability as well as social, legal and environmental issues.
- Personal attributes including: perseverance in the face of difficulties; initiative in identifying problems or opportunities; resourcefulness in seeking solutions; and a capacity for critical thought.
- Skills in the use of advanced technology, including an ability to build software to study and solve a range of problems.
- A commitment to the highest standards of professional endeavour and the ability to take a leadership role in the community.
- An ability to utilise a systems approach to design and operational performance.
- Understanding of the principles of sustainable design and development.

These programs also foster the graduate attributes of the University of Adelaide and the Institution of Engineers Australia. These should be read in conjunction with the list above.

Bachelor of Engineering (Petroleum) – Graduate Attributes

Educational Goals

- Be practical, employable and qualified petroleum engineers that can successfully pursue careers in the oil and gas production and services industries or other similar pursuits.
- Understand the fundamental principles of science and engineering behind the technology of petroleum engineering, in order to keep their education from becoming outdated and to give them the capability of self-instruction.
- Serve society by encouraging the ideals of ethical behaviour, professionalism, and environmentally responsible use of natural resources.

Graduates of the program should demonstrate:

- The ability to apply the knowledge of mathematics, chemistry, physics, geology, economics, computing, and engineering to solve petroleum engineering problems.
- The ability to formulate and solve petroleum engineering problems using modern techniques, tools and experimental procedures.
- The ability to apply the knowledge of modern valuation and decision-making methods to optimize the use of corporate and personal resources.
- The ability to design processes or systems to solve petroleum engineering problems.
- The ability to communicate effectively in written and oral form.
- The ability to work in teams and interact with colleagues and the public in an ethical, professional and safe manner.
- An appreciation of and an ability to continue to engage in lifelong learning.

Faculty of Humanities and Social Sciences

Contents

www.arts.adelaide.edu.au

Diploma in Languages
Dip.Lang.....159

Bachelor of Arts
B.A.

Bachelor of Arts (Asian Studies)
B.A.(Asian St.)

Bachelor of Arts (European Studies)
B.A.(Eur.St.).....161

Bachelor of Environmental Studies
B.Env.St.....178

Bachelor of International Studies
B.Int.St. 181

Bachelor of Media
B.Media 184

Bachelor of Social Sciences
B.Soc.Sc. 187

Bachelor of Arts (Honours)
B.A.(Hons)

Bachelor of Arts (Asian Studies)(Honours)*
B.A.(Asian St.)(Hons)

Bachelor of Arts (European Studies)(Honours)*
B.A.(Eur.St.)(Hons) 191

Bachelor of Environmental Studies (Honours)*
B.Env.St.(Hons).....193

Bachelor of International Studies (Honours)*
B.Int.St.(Hons).....195

Bachelor of Social Sciences (Honours)*
B.Soc.Sc.(Hons).....196

* Please note that there will be no intake into these academic programs in 2005. Please see B.A.(Hons) for further information on Honours programs.

Undergraduate awards in the Faculty of Humanities and Social Sciences

- Diploma in Languages
- Degree of Bachelor of Arts
- Degree of Bachelor of Arts (Asian Studies)
- Degree of Bachelor of Arts (European Studies)
- Degree of Bachelor of Environmental Studies
- Degree of Bachelor of International Studies
- Degree of Bachelor of Media
- Degree of Bachelor of Social Sciences
- Honours degree of Bachelor of Arts
- Honours degree of Bachelor of Arts (Asian Studies)
- Honours degree of Bachelor of Arts (European Studies)
- Honours degree of Bachelor of Environmental Studies
- Honours degree of Bachelor of International Studies
- Honours degree of Bachelor of Social Sciences

Notes on Delegated Authority

1 Council has delegated the power to approve minor changes to the Academic Program Rules to the Executive Deans of Faculties.

2 Council has delegated the power to specify syllabuses to the Head of each School or Centre concerned, such syllabuses to be subject to approval by the Faculty or by the Executive Dean on behalf of the Faculty. The Head of School or Centre may approve minor changes to any previously approved syllabus.

Diploma in Languages

Note: The Faculty of Humanities and Social Sciences has developed this program to enable students enrolled in any undergraduate degree of the University to concurrently undertake a three-year language sequence and graduate with both a Bachelor's degree and the Diploma in Languages. Application for admission to this program shall be made directly to the Faculty of Humanities and Social Sciences. Entry to this program may not be deferred.

Academic Program Rules

1 Duration of program

The duration of the Diploma itself shall be a minimum of three years of study, but shall be taken concurrently with full- or part-time study in another undergraduate award.

2 Admission

2.1 A student of the Diploma in Languages must be enrolled concurrently in a degree of Bachelor in the University.

2.2 Status, exemption and credit transfer

Except by special permission of the Faculty of Humanities and Social Sciences:

2.2.1 no student may gain status for any part of the language sequence of the Diploma in Languages, except where the language courses were undertaken in a University of Adelaide program and will no longer count to that program.

2.2.2 no status will be awarded in the Diploma in Languages for courses presented for another award.

3 Enrolment

3.1 Approval of program of study

Students should consult both the Faculty which administers their Bachelor degree and the Faculty of Humanities and Social Sciences for advice on an appropriate program of study.

4 Assessment and examinations

4.1 A candidate shall not be eligible to be assessed by examination or otherwise unless the prescribed work has been completed to the satisfaction of the teaching staff concerned. A candidate who is not eligible to be assessed by examination or otherwise shall be deemed to have failed the course.

4.2 A candidate who fails in a course or who obtains a lower division pass and who desires to take the course again shall, unless exempted wholly or partially by the Executive Dean of the Faculty concerned, again complete all the required work in that course to the satisfaction of the teaching staff concerned.

4.3 A candidate who does not complete the required assessment tasks in any course, shall be deemed to have failed the course.

4.4 There shall be four classifications of pass in any courses for the Diploma, as follows: Pass with High Distinction, Pass with Distinction, Pass with Credit, and Pass.

5 Qualification requirements

5.1 To qualify for the Diploma in Languages a student shall complete a three-year sequence (as defined in Rule 5.3 below) and satisfy the requirements of an undergraduate degree of the university.

5.2 A student may not have the Diploma in Languages conferred until he or she has satisfied the requirements for the approved undergraduate program.

5.3 Academic program

5.3.1 All students shall complete a three-year language sequence to a total value of 26 units. The sequence shall consist of:

6 units at level I

8 units at level II

12 units at level III

in a single language

5.3.2 In certain circumstances this sequence may be varied to consist of:

8 units at level II

12 units at level III

6 units of advanced language studies or approved area studies

5.3.3 The languages available are:

Ancient Greek	Chinese
French	German
Indonesian	Italian
Japanese	Latin
Modern Greek	Spanish

5.3.4 With the permission of the Faculty of Humanities and Social Sciences, a student may substitute a period of study in an approved overseas tertiary institution as an exchange student in lieu of part of the requirements of the Diploma in Languages, up to a limit of 12 units.

5.4 Unacceptable combinations of courses

No candidate will be permitted to count towards an award any course, together with any other course, which, in the opinion of the Faculty concerned, contains a substantial amount of the same material; and no course or portion of a course may be counted twice towards an award.

5.5 Graduation

Subject to Chapter 89 of the Statutes, candidates who have satisfied the requirements for any award of the University shall be admitted to that award at a graduation ceremony for the purpose.

6 Special circumstances

When in the opinion of the relevant Faculty special circumstances exist, the Council, on the recommendation of the Faculty in each case, may vary any of the provisions of the Academic Program Rules for any particular award.

Bachelor of Arts
Bachelor of Arts (Asian Studies)
Bachelor of Arts (European Studies)

Note: Students who commenced their program of study towards the Bachelor of Arts under Specific Course Rules in 1995 or Regulations and Schedules in 1994 or earlier are subject to the following provisions:

- Students will normally complete their course of study under the provisions of the Specific Course Rules as published in 1995.
- Students may be permitted to complete their studies under the current Academic Program Rules for the Bachelor of Arts with such modifications as the Faculty may deem necessary.

Academic Program Rules

1 General

On satisfying the admission requirements for entry to the Bachelor of Arts, students will enrol in a program of study to allow them to qualify for one of the following degrees:

Degree of Bachelor of Arts

Degree of Bachelor of Arts (Asian Studies)

Degree of Bachelor of Arts (European Studies)

2 Duration of program

2.1 The program of study for the Bachelor degree will extend over three years of full-time study or part-time equivalent.

2.2 Students will complete the requirements of the award within ten years. In determining a student's eligibility for the award of the degree, the Faculty will not normally count any course passed more than 10 years previously (see Rule 3.3).

3 Admission

The admission requirements for this program of study are those outlined in the Rules made by Council pursuant to Chapter IX of the University Statutes - Of Admission and Enrolment.

3.1 Status, exemption and credit transfer

The following status rules apply to the Bachelor of Arts and the named degrees, Bachelor of Media, Bachelor of Social Sciences, Bachelor of Environmental Studies and Bachelor of International Studies.

Students who have passed courses in Bachelor degree awards or equivalent at the University of Adelaide or another recognised institution, who wish to count such courses towards their degree, will be granted status to specified maximum limits. Students are not obliged to count the status awarded.

Where studies have been undertaken at an institution other than the University of Adelaide, a written application for status, accompanied by a transcript or statement of results, must be submitted to the Faculty Registrar. No application for status is required where the previous studies have been undertaken at the University of Adelaide.

The maximum status limits are as follows:

3.1.1 Complete Bachelor degree studies in any academic discipline

(a) 12 units at Level I in lieu of the requirements of 5.1.1.1 (b) (or equivalent for the named degrees) *and*

(b) 12 units at Level II in lieu of 5.1.1.1 (e) (or equivalent for the named degrees) i.e. not forming part of the major sequence for the BA or the compulsory courses or approved electives for the named degrees

3.1.1.1 where the complete degree includes Humanities and Social Sciences courses undertaken at The University of Adelaide (not more than 10 years previously), students are entitled to additional status as follows, subject to fulfilling the requirements of 5.1.1.2 the major sequence:

(a) 12 units at level I in lieu of the requirements of 5.1.1.1 (a) (or equivalent for the named degrees)

(b) 12 units at level II in lieu of 5.1.1.1 (c) and (d) (or equivalent for the named degrees).

3.1.2 Incomplete Bachelor degree studies in any academic discipline (not covered by 3.1.3 or 3.2)

(a) 12 units at Level I in lieu of the requirements of 5.1.1.1 (b) (or equivalent for the named degrees) *and*

(b) 12 units at Level II in lieu of 5.1.1.1 (e) (or equivalent for the named degrees) i.e. not forming part of the major sequence for the BA or the compulsory courses or approved electives for the named degrees.

3.1.2.1 where the incomplete degree includes the equivalent of up to 12 units of Humanities and Social Sciences not already included under 3.1.2.(a), students are entitled to additional status at level I as follows:

(a) Bachelor of Arts - 12 units of Humanities and Social Sciences

(b) Bachelor of Media - 3 units of Humanities and Social Sciences

(c) Bachelor of Social Sciences - 6 units of Social Sciences.

3.1.2.2 If students intend to study the Bachelor degree and their original degree concurrently, they should consult the Faculty that offers the original degree for advice on fulfilling its requirements.

3.1.3 Bachelor of Arts, Bachelor of Commerce, Bachelor of Computer Science, Bachelor of Economics, Bachelor of Environmental Studies, Bachelor of Finance, Bachelor of International Studies, Bachelor of Mathematical and Computer Sciences, Bachelor of Media, Bachelor of Social Sciences

A student who undertakes concurrently any two of the degrees listed above, may count 12 units at each of level I and II to both degrees, by undertaking courses to a minimum total of 48 units which satisfy the level I and II requirements of both awards. Students must then present for each degree courses to the value of 24 units at level III not presented for any other award, satisfying the requirements for the two degrees with a minimum total of 96 units (or 4 years) of study.

3.2 Status in formal combined degree arrangements

3.2.1 Law

Students who have passed courses in the Bachelor of Laws degree at the University of Adelaide will be granted status to the following limits:

(a) 3 units at Level I in lieu of the requirements of 5.1.1.1 (b) (or equivalent for the named degrees) *and*

(b) 12 units at Level II in lieu of 5.1.1.1 (e) (or equivalent for the named degrees) i.e. not forming part of the major sequence for the BA or the compulsory courses or approved electives for the named degrees

(c) Bachelor of Arts, Bachelor of Media, Bachelor of Environmental Studies and Bachelor of International Studies - 12 units at Level III in lieu of 5.1.1.1 (g) i.e. not forming part of the major sequence for the BA (or the compulsory courses or approved electives for the named degrees)

(d) Bachelor of Social Sciences, Bachelor of Arts (Asian Studies) or (European Studies) - law courses cannot be counted at level III. An additional 9 units of law courses may be counted at level I.

3.2.2 Bachelor of Economics and Bachelor of Arts, Bachelor of Economics and Bachelor of International Studies, Bachelor of Arts and Bachelor of International Studies, Bachelor of Arts and Bachelor of Media, Bachelor of Media and Bachelor of International Studies

A student who undertakes concurrently any combination listed above, may count 12 units at each of level I and II to both degrees, by undertaking courses to a minimum total of 48 units which satisfy the level I and II requirements of both awards. Students must then present for each degree courses to the value of 24 units at level III not presented for any other award, satisfying the requirements for the two degrees with a minimum total of 96 units (or 4 years) of study.

3.2.3 Bachelor of Arts/Bachelor of Science

Students may enrol in a program of study leading, after four years of full-time study (or part-time equivalent), to the award of both the Bachelor of Arts and the Bachelor of Science.

Students present approved courses to a minimum total value of 48 units at levels I and II to satisfy both awards. At Level II this consists of a minimum of 8 units of Arts and 16 units of Science. As this exceeds the normal limit for Science in the BA and Arts in the BSc at both levels I and II, students must complete all the requirements for both degrees in order to graduate from either.

Arts Component

To qualify for the BA, students must complete courses listed in 6.12 to a minimum of 44 units, as follows:

(a) Level I courses to the value of 12 units chosen from those listed in 6.12.1

(b) Level II courses to the value of 8 units chosen from those listed in 6.12.2, including the level II component of a major sequence

(c) Level III courses to the value of 24 units chosen from those listed in 6.12.3, including the level III component of a major sequence.

3.2.4 Bachelor of Arts/Bachelor of Music

Students who have passed courses in any one of the Bachelor of Music degrees at the University of Adelaide will be granted status to the following limits:

(a) 12 units at Level I in lieu of the requirements of 5.1.1.1 (b) *and*

(b) 12 units at Level II in lieu of 5.1.1.1 (e) i.e. not forming part of the major sequence for the BA.

The combined program takes five years of full-time study (or part-time equivalent). For more information refer to the Notes (Not Forming Part of the Academic Program Rules) for the Bachelor of Music.

3.3 Status on account of studies completed more than 10 years previously

Status is not normally awarded for studies completed more than 10 years previously. Where the Faculty deems status is appropriate, it will be limited as follows:

(a) 12 units at Level I in lieu of the requirements of 5.1.1.1 (b) (or equivalent for the named degrees) *and*

(b) 12 units at Level II in lieu of 5.1.1.1 (e) (or equivalent for the named degrees) i.e. not forming part of the major sequence for the BA or the compulsory courses or approved electives for the named degrees

3.4 Status for prior Technical and Further Education (TAFE) studies

Students who hold a completed Associate Diploma/ Diploma from an Institute of Technical and Further Education (TAFE) will be granted 6 units of status at level I.

3.5 Status for non-award studies

Students who have completed non-award courses from any recognised higher education institution may apply for status on account of such courses towards their degree and, if successful, will be subject to the same limits and conditions outlined in 3.1 above.

3.6 Minimum number of courses to be chosen from those offered by the Faculty of Humanities and Social Sciences at the University of Adelaide

Any application of the status rules above is subject to the requirement that all students must undertake a minimum of 36 units of courses chosen from 6.12.1-6.12.3 Humanities and Social Sciences.

4 Assessment and examinations

4.1 A candidate shall not be eligible to be assessed by examination or otherwise unless the prescribed work has been completed to the satisfaction of the teaching staff concerned. A candidate who is not eligible to be assessed by examination or otherwise shall be deemed to have failed the course.

4.2 A candidate who fails in a course or who obtains a lower division pass and who desires to take the course again shall, unless exempted wholly or partially by the Executive Dean of the Faculty concerned, again complete all the required work in that course to the satisfaction of the teaching staff concerned.

4.3 A candidate who does not complete the required assessment tasks in any course, shall be deemed to have failed the course.

4.4 There shall be four classifications of pass in any courses for the Bachelor degree, as follows: Pass with High Distinction, Pass with Distinction, Pass with Credit, and Pass.

5 Qualification requirements

5.1 Academic program

5.1.1 Bachelor of Arts

5.1.1.1 To qualify for the degree of Bachelor of Arts a student will present passes in courses to the value of 72 units which satisfy the following requirements:

Level I

(a) Level I courses to the value of 12 units chosen from those listed in 6.12.1 Humanities and Social Sciences courses

(b) Level I courses to the value of 12 units chosen from those listed in 6.12.1 Humanities and Social Sciences courses, or other courses offered by the University at Level I which are available to them.

Level II

(c) Level II courses to the value of 8 units chosen from those listed in 6.12.2 Humanities and Social Sciences courses, being the Level II component of a major sequence, see (5.1.1.2) below

(d) Level II courses to the value of 8 units chosen from those listed in 6.12.2 Humanities and Social Sciences courses

(e) Level II courses to the value of 8 units chosen from those listed in 6.12.2 Humanities and Social Sciences courses, or other courses offered by the University at Level II which are available to them.

Level III

(f) Level III courses to the value of 12 units chosen from those listed in 6.12.3 Humanities and Social Sciences courses, being the Level III component of a major sequence, see (5.1.1.2) below

(g) Level III courses to the value of 12 units chosen from those listed in 6.12.3 Humanities and Social Sciences courses.

5.1.1.2 Level II and III - major sequence

8 units of courses at Level II and 12 units of courses at Level III must be chosen from one of the following areas of study, to form a 'major sequence':

Ancient Greek
Anthropology**
Asian Studies**#
Chinese
Classical Studies
Economics**
English
Environmental Studies**#
European Studies#

French Studies

Gender Studies**#

Geography**

German Studies

History**

Indonesian

International Studies**#

Italian

Japanese

Latin

Linguistics**

Mathematics

Media and Communication **#

Modern Greek

Music Studies

Philosophy**

Politics**

Psychology** (major sequence must include PSYCHOL 2001 Psychological Research Methodology II and PSYCHOL 3000 Psychological Research Methodology III)

Spanish

** Social Science areas of study

Interdisciplinary areas of study

(a) Students may choose to undertake a second major in the same or an additional area of study.

(b) In most areas of study, eligibility to apply for Honours is subject to completion of a major sequence to a standard acceptable to the discipline concerned. Students should contact the relevant discipline for advice on appropriate course choices for eligibility for Honours.

(c) Honours in areas in other faculties, e.g. Economics, Mathematical Sciences and Music Studies, may require more than a standard major sequence. Students should consult the relevant area for more information.

5.2 Bachelor of Arts (Asian Studies)

5.2.1 To qualify for the degree of Bachelor of Arts (Asian Studies) a student will present passes in courses to the value of 72 units which satisfy the following requirements:

Level I

(a) Level I courses to the value of 6 units chosen from those listed in 6.12.1 Humanities and Social Sciences courses

(b) Level I course to the value of 6 units in an Asian language chosen from Chinese, Indonesian or Japanese

(c) Level I courses to the value of 12 units chosen from those listed in 6.12.1 Humanities and Social Sciences courses, or other courses offered by the University at Level I which are available to them.

Level II

(d) Level II courses to the value of 8 units in an Asian language undertaken to the value of 6 units at level I

(e) ASIA 2002 Asian Studies (core topic)

(f) Level II courses to the value of 12 units chosen from those listed in 6.12.2 Humanities and Social Sciences courses, or other courses offered by the University at Level II which are available to them.

Level III

(g) Level III Asian Studies non-language courses to the value of 12 units

(h) Level III courses to the value of 12 units in an Asian language undertaken to the value of 6 units at level I and 8 units at level II

5.2.2 In certain circumstances the language sequence may be varied to consist of:

(a) 8 units at level II

(b) 12 units at level III

(c) 6 units of advanced language studies or approved area studies

5.3 Bachelor of Arts (European Studies)

5.3.1 To qualify for the degree of Bachelor of Arts (European Studies) a student will present passes in courses to the value of 72 units which satisfy the following requirements:

Level I

(a) Level I courses to the value of 6 units chosen from those listed in 6.12.1 Humanities and Social Sciences courses

(b) Level I courses to the value of 6 units in a European language chosen from Ancient Greek, French, German, Italian, Latin, Modern Greek, or Spanish

(c) Level I courses to the value of 12 units chosen from those listed in 6.12.1 Humanities and Social Sciences courses, or other courses offered by the University at Level I which are available to them.

Level II

(d) Level II European Studies non-language courses to the value of 4 units

(e) Level II courses to the value of 8 units in a European language other than English undertaken to the value of 6 units at level I

(f) Level II courses to the value of 12 units from those listed in 6.12.2 Humanities and Social Sciences

courses, or other courses offered by the University at Level II which are available to them.

Level III

(g) Level III European Studies non-language courses to the value of 12 units

(h) Level III courses to the value of 12 units in a European language other than English undertaken to the value of 6 units at level I and 8 units at level II

5.3.2 In certain circumstances the language sequence may be varied to consist of:

(a) 8 units at level II

(b) 12 units at level III

(c) 6 units of advanced language studies or approved area studies

6 All Degrees

The following rules apply to the Bachelor of Arts and the named degrees, the Bachelor of Media, Bachelor of Social Sciences, Bachelor of Environmental Studies and Bachelor of International Studies.

6.1 Unacceptable combinations of courses

6.1.1 A course cannot be presented twice for the degree

6.1.2 A course cannot be presented with another course that contains a substantial amount of the same material

6.1.3 A course cannot be presented in addition to any course listed as a 'restriction' on it

6.1.4 A course with the same content that is offered at level II/III, cannot be undertaken at both levels.

6.2 Repeating courses

6.2.1 A student who repeats a course they have previously failed must again attend lectures and do all assessed work in the course.

6.2.2 A student who wishes to repeat a course they have already passed must enrol in it on a non-award basis.

6.2.3 A student who has twice failed any course may not re-enrol in that course again, or for any other course which in the opinion of the Faculty contains a substantial amount of the same material, except by special permission of the Faculty and then only under such conditions as the Faculty may prescribe.

6.3 Cross-institutional study

6.3.1 With prior approval of the Faculty, students may present courses offered by other universities, which are not offered by the Faculty of Humanities and Social Sciences, toward the Bachelor degree to the following limits:

(a) 12 units at Level I in lieu of the requirements of 5.1.1.1 (b) (or equivalent for the named degrees) *and*

(b) 12 units at Level II in lieu of 5.1.1.1 (e) (or equivalent for the named degrees) i.e. not forming part of the major sequence for the BA or the compulsory courses or approved electives for the named degrees

6.3.2 Where students undertake any courses at another institution not approved by the Faculty, the Faculty will determine what status, if any, to award for such studies.

6.3.3 Flinders University Language Outreach courses are exempt from the provisions of this rule.

6.4 International exchanges

6.4.1 Students may count studies completed while on International Exchange programs formalised through the University's International Office toward the Bachelor degree to the following limits:

24 units in total at level II and III combined

6.4.2 Where students undertake any courses at a host institution not approved by the Faculty, the Faculty will determine what status, if any, to award for such studies.

6.4.3 International exchanges are exempt from the provisions of 6.3.

6.5 Conceded passes

A student may present conceded passes in a maximum of two 3-unit Level I or Level II courses.

6.6 Discipline limits

A student may not present more than 52 units of courses in a single area of study. An area of study is defined by the area that teaches it, not the majors to which it may be counted. This rule applies even where a student is undertaking an interdisciplinary major or an interdisciplinary degree.

6.7 Prerequisites

A student may only proceed to a course for which they have completed the prerequisite courses prescribed in the syllabuses.

6.8 Surplus to requirement

A student undertaking a course which is surplus to the requirements of their degree must enrol in that course on a non-award basis.

6.9 Counting units toward a lower level of the degree

A student may count any course undertaken or status awarded at Level II to fulfil the requirements of Level I, or at Level III to fulfil the requirements of Level I or II.

6.10 Review of academic progress

The Faculty may prescribe rules for review of academic progress. Any student who meets the requirements for

review will be asked to show cause as to why they should be permitted to continue their studies. Students who cannot adequately explain poor academic performance may have their enrolment cancelled or restricted.

6.11 Graduation

Subject to Chapter 89 of the Statutes, students who have satisfied the requirements for any award of the University will be admitted to that award at a graduation ceremony for the purpose.

6.12 Program of study

Level I

6.12.1 Humanities and Social Sciences courses

Anthropology

semester 1

ANTH 1101 Inside Out: An Anthropology of University Life 3

semester 2

ANTH 1102 Introducing Social Anthropology 3

Asian Studies

semester 1

ASIA 1101 Introduction to Chinese Society and Culture 3

semester 2

ASIA 1102 Introduction to Japanese Society and Culture 3

ASIA 1103 Asia and the World 3

Chinese

semester 1

CHIN 1001 Chinese IA 3

CHIN 1011 Chinese ISA 3

semester 2

CHIN 1002 Chinese IB 3

CHIN 1012 Chinese ISB 3

Classical Languages

semester 1

AGRE 1102 Introduction to Latin and Ancient Greek I 3

semester 2

AGRE 1101 Ancient Greek I 3

LATN 1002 Latin I 3

Classical Studies

semester 1

CLAS 1001 Classics: From Egypt to Ancient Greece 3

semester 2

CLAS 1002 Classics: From Ancient Greece to Rome 3

Economics

semester 1

ECON 1000 Principles of Macroeconomics I 3

ECON 1004 Principles of Microeconomics I 3

ECON 1005 Mathematics for Economists I 3

ECON 1008 Business Data Analysis I 3

ECON 1009 International Financial Institutions and Markets I 3

semester 2

ECON 1000 Principles of Macroeconomics I 3

ECON 1004 Principles of Microeconomics I 3

ECON 1008 Business Data Analysis I 3

English

semester 1

ENGL 1101 Introduction to English: Ideas of the Real 3

ENGL 1104 Professional English (ESL) 3

ENGL 1106 Landmarks in English Literature: Chaucer to Austen 3

semester 2

ENGL 1102 Introduction to English: Gothic 3

ENGL 1104 Professional English (ESL) 3

ENGL 1105 Media Studies 3

Environmental Studies

semester 1

ENVT 1110 Sustaining Australia: The Environmental Challenge 3

European Studies

semester 1

EUST 1000 Modern Imagination in Europe 3

French Studies

semester 1

FREN 1002 French IA: Beginners' French Part 1 3

FREN 1011 French I: Language and Culture Part 1 3

semester 2

FREN 1003 French IA: Beginners' French Part 2 3

FREN 1012 French I: Language and Culture Part 2 3

Gender Studies

semester 1

GEND 1013 Introduction to Gender Studies 3

semester 2

GEND 1003 Gender, Work and Society 3

Geography

semester 2

GEOG 1004 Population, Globalisation & Social Justice 3

German Studies

semester 1

GERM 1002 German Studies IA: Beginners' German Part 1 3

GERM 1011 German Studies I Part 1 3

semester 2

GERM 1003 German Studies IA: Beginners' German Part 2 3

GERM 1012 German Studies I Part 2 3

History

semester 1

HIST 1105 Europe, Empire and the World: 1492-1914 3

semester 2

HIST 1106 The Twentieth Century: A World in Turmoil 3

Indonesian

semester 1

INDO 1001 Indonesian Introductory Part 1 3

INDO 1011 Indonesian Introductory A Part 1 3

semester 2

INDO 1002 Indonesian Introductory Part 2 3

INDO 1012 Indonesian Introductory A Part 2 3

Italian

semester 1

ITAL 1001 Italian I Part 1 3

semester 2

ITAL 1002 Italian I Part 2 3

Japanese

semester 1

JAPN 1001 Japanese IA 3

JAPN 1011 Japanese ISA 3

semester 2

JAPN 1002 Japanese IB 3

JAPN 1012 Japanese ISB 3

Linguistics

semester 1

LING 1101 Foundations of Linguistics 3

semester 2

LING 1102 Language and Ethnography of Communication 3

Mathematics

semester 1

MATHS 1011 Mathematics IA 3

MATHS 1013 Mathematics IMA 3

Semester 2

MATHS 1012 Mathematics IB 3

MATHS 1014 Mathematics IMB 3

Modern Greek

semester 1

MGRE 1001 Modern Greek I Part 1 3

semester 2

MGRE 1002 Modern Greek I Part 2 3

Music Studies

semester 1

GENMUS 1006 Blues All Around My Head I 3

MUSCORE 1002 Concepts of Composition I 3

MUSCORE 1003 Music Foundations I: Classical 3

semester 2

GENMUS 1003 Musics of the World I 3

MUSCORE 1001 Approaches to Music I 3

MUSCORE 1004 Music in Context: Tonality and Form in Western Music 3

Philosophy

semester 1

PHIL 1101 Argument and Critical Thinking 3

PHIL 1103 Morality, Society and the Individual 3

semester 2

PHIL 1102 Mind, Knowledge and God 3

PHIL 1110 Logic I: Beginning Logic 3

Physics

semester 2

PHYSICS 1005 Physics, Ideas and Society I 3

Politics

semester 1

POLI 1101 Introduction to Australian Politics 3

POLI 1102 Introduction to International Politics 3

semester 2

POLI 1104 Introduction to Comparative Politics 3

POLI 1105 Thinking About Politics 3

Psychology

semester 1

PSYCHOL 1000 Psychology IA 3

semester 2

PSYCHOL 1001 Psychology IB 3

Social Sciences

semester 1

SOCI 1001 Social Sciences in Australia 3

SOCI 1002 Image, Text and Representation 3

Spanish

semester 1

SPAN 1001 Spanish I Part 1 3

semester 2

SPAN 1002 Spanish I Part 2 3

Level II

6.12.2 Humanities and Social Sciences courses

Anthropology

semester 1

ANTH 2003 Anthropology of Health and Medicine 3

ANTH 2012 Media and Culture 4

ANTH 2016 The Sexual Body 4

ANTH 2021 Poverty and Development: Conditions and Experience 4

ANTH 2024 Anthropology of Conflict and Crisis 4

semester 2

ANTH 2004 Anthropology of Ritual, Performance & Art 4

ANTH 2013 Media Analysis 4

ANTH 2017 Culture and Society: Contemporary Debates 4

ANTH 2022 Popular Culture: Passion, Style, Tribe 4

ANTH 2023 Mind and Person: Anthropological Perspectives 4

ANTH 2025 Southeast Asian Buddhist Social Worlds 4

Asian Studies

semester 1

ASIA 2002 Asian Studies (core topic) 4

ASIA 2015 Politics and Foreign Policy in Contemporary Japan 4

ASIA 2016 Religions of China 4

semester 2

ASIA 2003 Australia and the Asia Pacific 4

ASIA 2008 Contemporary China: Politics and Society 4

ASIA 2012 Contemporary Japan: Culture and Identity 4

Chinese

semester 1

CHIN 2001 Chinese IIA 4

CHIN 2003 Chinese for Chinese Speakers IIA 4

CHIN 2005 Chinese Studies In-Country 12

CHIN 2011 Chinese IISA 4

semester 2

CHIN 2002 Chinese IIB 4

CHIN 2004 Chinese for Chinese Speakers IIB 4

CHIN 2005 Chinese Studies In-Country 12

CHIN 2012 Chinese IISB 4

Classical Languages

semester 1

AGRE 2002 Ancient Greek II Part 1 4

AGRE 2102 Introduction to Latin and Ancient Greek IIS 4

LATN 2002 Latin II Part 1 4

semester 2

AGRE 2003 Ancient Greek II Part 2 4

AGRE 2101 Ancient Greek IIS 4

LATN 2003 Latin II Part 2 4

LATN 2010 Latin IIS 4

Classical Studies

semester 1

CLAS 2005 Egypt, Greece and the Aegean: Archaeology 4

CLAS 2017 Roman Republican History 133 B.C. - A.D.14 4

CLAS 2020 Afterlife and Underworld in Antiquity 4

semester 2

CLAS 2003 Ancient Science, Medicine & Technology 4

CLAS 2006 Early Mediaeval Europe A.D. 200-800 4

CLAS 2014 Pamphylia in Antiquity: In-Country Studies 4

CLAS 2016 Roman Imperial History A.D. 14-192 4

summer semester

CLAS 2021 Eastern Mediterranean Archaeological Field School 4

Economics

semester 1

ECON 2000 International Trade and Investment Policy II 4

ECON 2005 Mathematical Economics II 4

ECON 2006 Economic & Financial Data Analysis II 4

ECON 2009 Consumers, Firms and Markets II 4

ECON 2011 Macroeconomic Theory and Policy II 4

semester 2

ECON 2001 Resource and Environmental Economics II 4

ECON 2004 Employment Relations II 4

ECON 2006 Economic & Financial Data Analysis II 4

ECON 2007 Australian Economic History II 4
ECON 2009 Consumers, Firms and Markets II 4
ECON 2011 Macroeconomic Theory and Policy II 4

English

semester 1

ENGL 2006 Contemporary Australian Film 4
ENGL 2016 English for Professional Purposes 4
ENGL 2022 World Literature in English 4
ENGL 2025 Telling Tales 4
ENGL 2029 Reading and Writing Poetry 4
ENGL 2031 Hollywood or Bust! 4
ENGL 2104 Professional English (ESL) 4

semester 2

ENGL 2001 Everyday Life in Australia 4
ENGL 2004 Australian Colonial Visions 4
ENGL 2008 Early English Language and Literature 4
ENGL 2018 Renaissance Writing 4
ENGL 2028 The Short Story: Introduction to Creative Writing 4
ENGL 2035 Contemporary Medievalism 4
ENGL 2104 Professional English (ESL) 4

summer semester

ENGL 2034 Representing Truth and Reconciliation 4

Environmental Studies

semester 1

ENVT 2005 Environmentalism: Principles and Practice 4
ENVT 2009 Introduction to Environmental Impact Assessment 4

semester 2

ENVT 2008 Environmental Policy in Australia 4
ENVT 2010 Tourism Development and Sustainability 4

European Studies

semester 1

EUST 2003 European Philosophy: The Death of God 4

semester 2

EUST 2005 Great Ideas of Western Civilisation 4
EUST 2011 Opera as Idea and Ideal 4
EUST 2012 Power: Love and Evil 4

Faculty Courses

semester 1 or 2

EXCHANGE 1000ARTS International Exchange for H&SS Students 12

French Studies

semester 1

FREN 2002 French IIA: Language and Culture Part 1 4
FREN 2007 French Studies II:
Culture Topic 4
Language Topic 4
FREN 2011 French II: Language and Culture Part 1 4

semester 2

FREN 2003 French IIA: Language and Culture Part 2 4
FREN 2007 French Studies II:
Culture Topic 4
Language Topic 4
FREN 2012 French II: Language and Culture Part 2 4

summer semester

FREN 2021 French in France II 4

Gender Studies

semester 1

GEND 2007: Life Stories: Australia 1850-1980 4
GEND 2014 Risk and Moral Panic in Australian Society 4

semester 2

GEND 2015 Screening Australian Social Issues 4

Geography

semester 1

GEOG 2011 Environmental and Regional Planning 4
GEOG 2016 Australian Cultural Geographies 4
GEOG 2018 Environmental Change 4
GISC 2010 Introductory Spatial Information Systems 4

semester 2

GEOG 2001 Biogeography & Biodiversity Conservation 4
GEOG 2002 Cities and Globalisation 4
GEOG 2014 Population and Health 4

German Studies

semester 1

GERM 2002 German Studies IIA:
Language and Culture Part 1 4
GERM 2008 German Special Topic II:
Culture Topic 4
Language Topic 4
GERM 2011 German Studies II:
Language and Culture Part 1 4

semester 2

GERM 2003 German Studies IIA:
Language and Culture Part 2 4

GERM 2008 German Special Topic II:
Culture Topic 4
Language Topic 4
GERM 2012 German Studies II:
Language and Culture Part 2 4

summer semester

GERM 2005 German in Germany 4

History

semester 1

HIST 2014 Fascism and National Socialism 4
HIST 2017 History of Indigenous Peoples of Australia A 4
HIST 2027 The South-East Asian Past 4
HIST 2040 Ruling the Waves: Britain 1689-1901 4

semester 2

HIST 2004 Australia and the World
in the Twentieth Century 4
HIST 2019 The Origins of Modern America 4
HIST 2025 Russia in Crisis and Revolution 1890-2004 4
HIST 2030 America, Asia and the Cold War 1945-1990 4
HIST 2032 Colonial Identity and the Legacies of Empire 4
HIST 2042 Medieval Europe:
The Crusades to the Black Death 4

Indonesian

semester 1

INDO 2001 Indonesian Intermediate Part 1 4
INDO 2011 Indonesian Intermediate A Part 1 4

semester 2

INDO 2002 Indonesian Intermediate Part 2 4
INDO 2012 Indonesian Intermediate A Part 2 4

International Studies

semester 2

INST 2001 International Studies (core topic) 4

Italian

semester 1

ITAL2001 Italian II Part 1 4

semester 2

ITAL 2002 Italian II Part 2 4

Japanese

semester 1

JAPN 2001 Japanese IIA 4
JAPN 2011 Japanese IISA 4

semester 2

JAPN 2002 Japanese IIB 4
JAPN 2012 Japanese IISB 4

Labour Studies

semester 1

LBST 2016 Youth, Work and Other Catastrophes 4

Linguistics

semester 1

LING 2006 Language and Meaning 4
LING 2030 Language and Communication Planning 4

semester 2

LING 2009 Australian Indigenous Languages 4
LING 2033 Language, Communication and Technology 4

Mathematics

See syllabus entries for Mathematics for available courses.

Modern Greek

semester 1

MGRE 2001 Modern Greek II Part 1 4

semester 2

MGRE 2002 Modern Greek II Part 2 4

Music Studies

semester 1

MUSCORE 2001 Music in Context IIA:
Polyphony & Harmony 3
MUSST 2001 Approaches to Music IIA 3
GENMUS 2009 Music, Media
and Contemporary Society (Arts) II 4

semester 2

MUSCORE 2002 Music in Context IIB:
19th Century Music 3
MUSST 2002 Approaches to Music IIB 3

Philosophy

semester 1

PHIL 2011 Moral Problems 4
PHIL 2015 Issues in the Philosophy of Language 4
PHIL 2020 How Should I Live?
Contemporary Ethical Theories 4
PHIL 2024 Beauty: Pleasures and Principles 4
PHIL 2110 Logic II: Intermediate Logic 4

semester 2

PHIL 2007 Foundations of Modern Philosophy 4
PHIL 2016 Mental Representation, Consciousness
and Self 4

PHIL 2021 Justice & Power: Contemporary Political Philosophy 4

PHIL 2023 Professional Ethics 4

PHIL 2025 Philosophy of Art: Knowledge, Emotion & Intention 4

Physics

PHYSICS 2008 Physics, Ideas and Society II 4

Politics

semester 1

POLI 2001 Anarchism and Libertarianism 4

POLI 2002 Comparative Politics: State of the World 4

Understanding Modern Europe 4

POLI 2006 International Justice and Society 4

POLI 2010 Modern Political Theory 4

POLI 2074 Politics, Ideology and Discourse 4

semester 2

POLI 2009 Justice, Virtue and the Good 4

POLI 2012 Citizenship in an International Context 4

POLI 2071 Issues in Australian Politics 4

POLI 2072 Marx and Marxism in the Twenty-First Century 4

POLI 2079 Politics, Power and Popular Culture 4

POLI 2081 Post-Cold War International Relations 4

Psychology

semester 1

PSYCHOL 2001 Psychological Research Methodology II 4

PSYCHOL 2002 Psychology IIA 4

semester 2

PSYCHOL 2003 Psychology IIB 4

Social Sciences

semester 1

SOCI 2002 Social Science Techniques 4

semester 2

SOCI 2004 Social Research 4

SOCI 2005 The Media and Social Change 4

Spanish

semester 1

SPAN 2001 Spanish II Part 1 4

semester 2

SPAN 2002 Spanish II Part 2 4

Level III

6.12.3 Humanities and Social Sciences courses

Anthropology

semester 1

ANTH 3003 Anthropology of Health and Medicine 6

ANTH 3012 Media and Culture 6

ANTH 3016 The Sexual Body 6

ANTH 3021 Poverty and Development: Conditions and Experience 6

ANTH 3024 Anthropology of Conflict and Crisis in Contemporary Society 6

semester 2

ANTH 3004 Anthropology of Ritual, Performance & Art 6

ANTH 3013 Media Analysis 6

ANTH 3017 Culture and Society: Contemporary Debates 6

ANTH 3022 Popular Culture: Passion, Style, Tribe 6

ANTH 3023 Mind and Person: Anthropological Perspectives 6

ANTH 3025 Southeast Asian Buddhist Social Worlds 6

Asian Studies

semester 1

ASIA 3015 Politics and Foreign Policy in Contemporary Japan 6

ASIA 3016 Religions of China 6

semester 2

ASIA 3003 Australia and the Asia Pacific 6

ASIA 3008 Contemporary China: Politics and Society 6

ASIA 3012 Contemporary Japan: Culture and Identity 6

Chinese

semester 1

CHIN 3001 Chinese IIIA 6

CHIN 3003 Chinese for Chinese Speakers IIIA 6

CHIN 3005 Chinese Studies In-Country III 12

CHIN 3011 Advanced Chinese A 6

semester 2

CHIN 3002 Chinese IIIB 6

CHIN 3004 Chinese for Chinese Speakers IIIB 6

CHIN 3005 Chinese Studies In-Country III 12

CHIN 3012 Advanced Chinese B 6

Classical Languages

semester 1

AGRE 3002 Ancient Greek III Part 1 6

AGRE 3011 Ancient Greek IIIS Part 1 6

LATN 3002 Latin III Part 1 6
LATN 3011 Latin IIIS Part 1 6

semester 2

AGRE 3003 Ancient Greek III Part 2 6
AGRE 3012 Ancient Greek IIIS Part 2 6
LATN 3003 Latin III Part 2 6
LATN 3012 Latin IIIS Part 2 6

Classical Studies

semester 1

CLAS 3005 Egypt, Greece and the Aegean: Archaeology 6
CLAS 3017 Roman Republican History 133 B.C. - A.D.14 6
CLAS 3020 Afterlife and Underworld in Antiquity 6

semester 2

CLAS 3003 Ancient Science, Medicine & Technology 6
CLAS 3006 Early Mediaeval Europe A.D. 200-800 6
CLAS 3014 Pamphylia in Antiquity: In-Country Studies 6
CLAS 3016 Roman Imperial History A.D.14-192 6

summer semester

CLAS 3021 Eastern Mediterranean Archaeological Field School 6

Economics

semester 1

ECON 3013 Applied Econometrics III 4
ECON 3017 Labour Economics III 4
ECON 3024 Public Economics III 4
ECON 3030 International Economic History III 4
ECON 3032 International Finance III 4
ECON 3035 Money, Banking and Financial Markets 4

semester 2

ECON 3003 Resource and Environmental Economics III 4
ECON 3006 Development Economics III 4
ECON 3016 Strategic Thinking for Decision Makers III 4
ECON 3021 International Trade III 4
ECON 3034 Economic Theory III 4

English

semester 1

ENGL 3006 Contemporary Australian Film 6
ENGL 3016 English for Professional Purposes 6
ENGL 3022 World Literature in English 6
ENGL 3025 Telling Tales 6
ENGL 3029 Reading and Writing Poetry 6
ENGL 3031 Hollywood or Bust! 6

semester 2

ENGL 3001 Everyday Life in Australia 6
ENGL 3004 Australian Colonial Visions 6
ENGL 3008 Early English Language and Literature 6
ENGL 3018 Renaissance Writing 6
ENGL 3028 The Short Story: Introduction to Creative Writing 6
ENGL 3035 Contemporary Medievalism 6

summer semester

ENGL 3034 Representing Truth and Reconciliation 6

Environmental Studies

semester 1

ENVT 3005 Environmentalism: Principles and Practice 6
ENVT 3009 Introduction to Environmental Impact Assessment 6

semester 2

ENVT 3008 Environmental Policy in Australia 6
ENVT 3010 Tourism Development and Sustainability 6

European Studies

semester 1

EUST 3003 European Philosophy: The Death of God 6

semester 2

EUST 3005 Great Ideas of Western Civilisation 6
EUST 3011 Opera as Idea and Ideal 6
EUST 3012 Power: Love and Evil 6

Faculty Courses

semester 1 or 2

EXCHANGE 1000ARTS International Exchange for H&SS Students 12

French Studies

semester 1

FREN 3002 French IIA: Language and Culture Part 1 6
FREN 3007 French Studies III:
Culture Topic 6
Language Topic 6
FREN 3011 French II: Language and Culture Part 1 6

semester 2

FREN 3003 French IIIA: Language and Culture Part 2 6
FREN 3007 French Studies III:
Culture Topic 6
Language Topic 6
FREN 3012 French III: Language and Culture Part 2 6

summer semester

FREN 3021 French in France III 6

Gender Studies

semester 1

GEND 3007: Life Stories: Australia 1850-1980 6

GEND 3014 Risk and Moral Panic in Australian Society 6

semester 2

GEND 3015 Screening Australian Social Issues 6

Geography

semester 1

GEOG 3011 Environmental and Regional Planning 6

GEOG 3016 Australian Cultural Geographies 6

GEOG 3018 Environmental Change 6

GISC 3010 Introductory Spatial Information Systems 6

semester 2

GEOG 3001 Biogeography and Biodiversity Conservation 6

GEOG 3002 Cities and Globalisation 6

GEOG 3014 Population and Health 6

GISC 3020 Advanced Spatial Analysis 6

German Studies

semester 1

GERM 3002 German Studies IIIA: Language and Culture Part 1 6

GERM 3008 German Special Topic III

Culture Topic 6

Language Topic 6

GERM 3011 German Studies III: Language and Culture Part 1 6

semester 2

GERM 3003 German Studies IIIA: Language and Culture Part 2 6

GERM 3008 German Special Topic III:

Culture Topic 6

Language Topic 6

GERM 3012 German Studies III: Language and Culture Part 2 6

summer semester

GERM 3005 German in Germany 6

History

semester 1

HIST 3014 Fascism and National Socialism 6

HIST 3017 History of Indigenous Peoples of Australia A 6

HIST 3027 The South-East Asian Past 6

HIST 3040 Ruling the Waves: Britain 1689-1901 6

semester 2

HIST 3004 Australia and the World in the Twentieth Century 6

HIST 3019 The Origins of Modern America 6

HIST 3025 Russia in Crisis and Revolution 1890-2004 6

HIST 3030 America, Asia and the Cold War 1945-1990 6

HIST 3032 Colonial Identity and the Legacies of Empire 6

HIST 3042 Medieval Europe: The Crusades to the Black Death 6

Indonesian

semester 1

INDO 3001 Indonesian Advanced Part 1 6

INDO 3011 Indonesian Advanced A Part 1 6

semester 2

INDO 3002 Indonesian Advanced Part 2 6

INDO 3012 Indonesian Advanced A Part 2 6

Italian

semester 1

ITAL 3001 Italian III Part 1 6

semester 2

ITAL 3002 Italian III Part 2 6

Japanese

semester 1

JAPN 3001 Japanese IIIA 6

JAPN 3011 Advanced Japanese A 6

semester 2

JAPN 3002 Japanese IIIB 6

JAPN 3012 Advanced Japanese B 6

Labour Studies

semester 1

LBST 3016 Youth, Work and Other Catastrophies 6

Linguistics

semester 1

LING 3006 Language and Meaning 6

LING 3030 Language and Communication Planning 6

semester 2

LING 3009 Australian Indigenous Languages 6

LING 3033 Language, Communication and Technology 6

Mathematics

See syllabus entries for Mathematics for available courses.

Modern Greek

semester 1

MGRE 3001 Modern Greek III Part 1 6

semester 2

MGRE 3002 Modern Greek III Part 2 6

Music Studies

semester 1

MUSCORE 3001 Music in Context III: Music since 1900 3

MUSST 3001 Approaches to Music III 3

MUSST 3002 Advanced Seminar in Music IIIA 3

GENMUS 3009 Music, Media and Contemporary Society (Arts) III 6

semester 2

MUSCORE 3004 Music in Australia III 3

MUSST 3003 Advanced Seminar in Music IIIB 3

MUSST 3005 Foundation for Honours III - Music Studies 3

semester 1 or 2

MUSST 3011 Pathfinders in American Music III 3

MUSST 3010 Studies in Japanese Music III 3

Philosophy

semester 1

PHIL 3011 Moral Problems 6

PHIL 3015 Issues in the Philosophy of Language 6

PHIL 3020 How Should I Live? Contemporary Ethical Theories 6

PHIL 3024 Beauty: Pleasures and Principles 6

semester 2

PHIL 3007 Foundations of Modern Philosophy 6

PHIL 3016 Mental Representation, Consciousness and Self 6

PHIL 3021 Justice & Power: Contemporary Political Philosophy 6

PHIL 3023 Professional Ethics 6

PHIL 3025 Philosophy of Art: Knowledge, Emotion & Intention 6

Politics

semester 1

POLI 3001 Anarchism and Libertarianism 4

POLI 3002 Comparative Politics: State of the World 4

Understanding Modern Europe 4

POLI 3006 International Justice and Society 4

POLI 3010 Modern Political Theory 4

POLI 3074 Politics, Ideology and Discourse 4

semester 2

POLI 3009 Justice, Virtue and the Good 4

POLI 3012 Citizenship in an International Context 4

POLI 3071 Issues in Australian Politics 4

POLI 3072 Marx and Marxism in the Twenty-First Century 4

POLI 3079 Politics, Power and Popular Culture 4

POLI 3081 Post-Cold War International Relations 4

POLI 3083 SA Parliamentary Internship 6

Psychology

semester 1

PSYCHOL 3000 Psychological Research Methodology III 4

PSYCHOL 3002 Mind, Brain and Evolution III 2

PSYCHOL 3010 Social Psychology III 2

PSYCHOL 3013 Learning and Behaviour III 2

PSYCHOL 3016 Language Processes III 2

semester 2

PSYCHOL 3003 Developmental Psychology III 2

PSYCHOL 3005 Perception and Cognition III 2

PSYCHOL 3006 Psychology: Physiology & Behaviour III 2

PSYCHOL 3009 Metapsychology: Psychology, Science and Society III 2

PSYCHOL 3014 Individual Differences III 2

PSYCHOL 3015 Human Relations III 2

Social Sciences

semester 2

SOCI 3004 Social Research 6

SOCI 3005 The Media and Social Change 6

Spanish

semester 1

SPAN 3001 Spanish III Part 1 6

semester 2

SPAN 3002 Spanish III Part 2 6

7 Special circumstances

When in the opinion of the relevant Faculty special circumstances exist, the Council, on the recommendation of the Faculty in each case, may vary any of the provisions of the Academic Program Rules for any particular award.

Bachelor of Arts – Graduate Attributes

The Faculty of Humanities and Social Sciences facilitates an environment in which graduates are encouraged to take personal responsibility for developing the following attributes:

- Broad general knowledge.
- Specialised understanding in one or two chosen disciplines.
- An appreciation of their potential contribution to knowledge through engagement with the traditions and innovations in their fields of enquiry.
- The skills and discipline to research, synthesise, organise and present information, using a range of technologies as appropriate.
- Problem solving skills.
- Analytic and critical skills.
- The ability to argue from evidence.
- The ability to think creatively.
- The ability to communicate ideas effectively.
- The ability to set appropriate goals and to work independently and/or cooperatively.
- An understanding of the importance of lifelong learning.
- An understanding of ethical issues in their professional and intellectual contexts.
- An awareness of their potential leadership roles in the community of scholars and in the wider community.
- An awareness of social justice issues.

Bachelor of Arts (Asian Studies) – Graduate Attributes

The Faculty of Humanities and Social Sciences facilitates an environment in which graduates are encouraged to take personal responsibility for developing the following attributes:

- Knowledge of at least one Asian language (Chinese, Japanese or Indonesian).
- An understanding of key issues in the study of Asian countries and the region as a whole.
- A broad general knowledge and specialised knowledge of at least one Asian country.
- An appreciation of the importance and manner of Australia-Asian interactions.
- Ability to research, synthesise, analyse and present information using a range of appropriate technologies and resources.
- Increased critical and analytical thinking skills.
- Ability to work with others and to be able to present cogent arguments using well developed verbal, written and other relevant skills.
- Ability to use Asian language materials to undertake research.
- Ability to negotiate in an Asian language environment and handle relevant socio-cultural differences.
- An appreciation of the social, political and cultural complexity and variations among Australia's Asian neighbours.
- A realisation of the need for specific cultural knowledge.
- An understanding of the need for lifelong learning .

Bachelor of Arts (European Studies) – Graduate Attributes

The Faculty of Humanities and Social Sciences facilitates an environment in which graduates are encouraged to take personal responsibility for developing the following attributes:

- Broad general knowledge.
- Specialised understanding in one or two chosen disciplines within the area of European Studies.
- An appreciation of their potential contribution to knowledge through engagement with the traditions and innovations in their fields of enquiry.
- The skills and discipline to research, synthesise, organise and present information, using a range of technologies as appropriate.
- Problem solving skills.
- Analytic and critical skills.
- The ability to argue from evidence.
- The ability to think creatively.
- The ability to communicate ideas effectively.
- The ability to set appropriate goals and to work independently and/or cooperatively.
- Competency in at least one European language.
- An understanding of the importance of languages.
- An understanding of the importance of lifelong learning.
- An understanding of ethical issues in their professional and intellectual contexts.
- An awareness of their potential leadership roles in the community of scholars and in the wider community.
- An awareness of issues of civic responsibility.

Bachelor of Environmental Studies

Academic Program Rules

1 General

There shall be a degree of Bachelor of Environmental Studies.

2 Duration of program

2.1 The program of study for the Bachelor degree shall extend over three years of full-time study or the part-time equivalent.

2.2 Candidates shall complete the requirements of the award within ten years. In determining a candidate's eligibility for the award of the degree, the Faculty will not normally count any course passed more than 10 years previously.

3 Admission

3.1 Status, exemption and credit transfer

Students who have passed courses in Bachelor degree awards or equivalent at the University of Adelaide or another recognised institution, who wish to count such courses towards their degree, will be granted status to specified maximum limits. Students are not obliged to count the status awarded.

Where studies have been undertaken at an institution other than the University of Adelaide, a written application for status, accompanied by a transcript or statement of results, must be submitted to the Faculty Registrar. No application for status is required where the previous studies have been undertaken at the University of Adelaide.

The maximum status limits are as follows:

(a) 12 units at level I on account of studies in any academic discipline in lieu of the requirements of 5.1 (c)

(b) 12 units at level II on account of studies in any academic discipline in lieu of the requirements of 5.1 (f).

3.2 Status will not normally be awarded for any of the compulsory courses.

3.3 For further information on status rules, refer to Rule 3.1 of the Academic Program Rules for the Bachelor of Arts.

4 Assessment and examinations

4.1 A candidate shall not be eligible to be assessed by examination or otherwise unless the prescribed work has been completed to the satisfaction of the teaching staff concerned. A candidate who is not eligible to be assessed by examination or otherwise shall be deemed to have failed the course.

4.2 A candidate who fails in a course or who obtains a lower division pass and who desires to take the course again shall, unless exempted wholly or partially by the Executive Dean of the Faculty concerned, again complete all the required work in that course to the satisfaction of the teaching staff concerned.

4.3 A candidate who does not complete the required assessment tasks in any course, shall be deemed to have failed the course.

4.4 There shall be four classifications of pass in any courses for the Bachelor degree, as follows: Pass with High Distinction, Pass with Distinction, Pass with Credit, and Pass.

5 Qualification requirements

5.1 Academic program

To qualify for the degree of Bachelor of Environmental Studies a candidate shall present passes in courses to a value of 72 units that satisfy the following requirements:

Level I

(a) ENVT 1110 Sustaining Australia: The Environmental Challenge 3

(b) Courses to the value of 9 units chosen from the following approved Environmental Studies electives:

ANTH 1101 Inside Out: An Anthropology of University Life	3
APP ECOL 1002RW Field Studies IA	3
ECON 1004 Principles of Macroeconomics I	3
ENV BIOL 1002 Environmental Biology I	3
GEOG 1002 Footprints on a Fragile Planet	3
GEOG 1004 Population, Globalisation and Social Justice	3
GEOLOGY 1001 Environmental Geoscience	3
POLI 1101 Introduction to Australian Politics	3
SOCI 1001 Social Sciences in Australia	3

(c) Level I courses to the value of 12 units chosen from those listed in 6.12.1 for the Bachelor of Arts, or other courses offered by the University at Level I which are available to them.

Level II

(d) ENVT 2005 Environmentalism: Principles and Practice 4

(e) Level II Environmental Studies courses to the value of 8 units

(f) Level II courses to the value of 12 units chosen from those listed in 6.12.2 for the Bachelor of Arts, or other courses offered by the University at Level II which are available to them.

Level III

(h) Level III Environmental Studies courses to the value of 12 units (may include ENVT 3015 Environmental Studies: Internship - but a quota applies)

(i) Level III Environmental Studies courses or approved Environmental elective courses to the value of 12 units.

5.2 Unacceptable combination of courses

5.3 Repeating courses

5.4 Cross Institutional study

5.5 International exchange

5.6 Conceded passes

5.7 Discipline limits

5.8 Prerequisites

5.9 Surplus to requirement

5.10 Counting units toward a lower level of the degree

5.11 Review of academic progress

5.12 Graduation

For information on Rules 5.2 - 5.12, refer to Rule 7 of the Academic Program Rules for the Bachelor of Arts.

5.13 Status and double degree arrangements

For information on Rule 5.13, refer to Rule 3.1 of the Academic Program Rules for the Bachelor of Arts.

6 Special circumstances

When in the opinion of the relevant Faculty special circumstances exist, the Council, on the recommendation of the Faculty in each case, may vary any of the provisions of the Academic Program Rules for any particular award.

Bachelor of Environmental Studies – Graduate Attributes

The Faculty of Humanities and Social Sciences facilitates an environment in which graduates are encouraged to take personal responsibility for developing the following attributes:

- Broad general knowledge.
- Specialised knowledge of current environmental issues from a social sciences perspective.
- An appreciation of the various theoretical and philosophical frameworks within which environmental issues are raised.
- A trained mind with the skills and discipline to research, synthesise, organise and present information on the environment, using a range of technologies as appropriate.
- Problem solving skills and the ability to argue from evidence.
- The ability to think creatively and communicate ideas effectively for the purpose of developing appropriate environmental policies.
- The ability to set appropriate goals and to work independently and/or cooperatively to achieve specified outcomes.
- A clear understanding of ethical issues in their professional and intellectual contexts.
- A commitment to researching and solving environmental problems and raising awareness of environmental issues in an intellectual and broader social context.

Bachelor of International Studies

Academic Program Rules

1 General

There shall be a degree of Bachelor of International Studies.

2 Duration of program

2.1 The program of study for the Bachelor degree shall extend over three years of full-time study or the part-time equivalent.

2.2 Candidates shall complete the requirements of the award within ten years. In determining a candidate's eligibility for the award of the degree, the Faculty will not normally count any course passed more than 10 years previously.

3 Admission

3.1 Status, exemption and credit transfer

Students who have passed courses in Bachelor degree awards or equivalent at the University of Adelaide or another recognised institution, who wish to count such courses towards their degree, will be granted status to specified maximum limits. Students are not obliged to count the status awarded.

Where studies have been undertaken at an institution other than the University of Adelaide, a written application for status, accompanied by a transcript or statement of results, must be submitted to the Faculty Registrar. No application for status is required where the previous studies have been undertaken at the University of Adelaide.

The maximum status limits are as follows:

(a) 12 units at level I on account of studies in any academic discipline in lieu of the requirements of 5.1 (c)

(b) 12 units at level II on account of studies in any academic discipline in lieu of the requirements of 5.1 (e).

3.2 Status will not normally be awarded for any of the compulsory courses.

3.3 For further information on status rules, refer to 3.1 of the Academic Program Rules for the Bachelor of Arts.

4 Assessment and examinations

4.1 A candidate shall not be eligible to be assessed by examination or otherwise unless the prescribed work has been completed to the satisfaction of the teaching staff concerned. A candidate who is not eligible to be assessed by examination or otherwise shall be deemed to have failed the course.

4.2 A candidate who fails in a course or who obtains a lower division pass and who desires to take the course again shall, unless exempted wholly or partially by the Executive Dean of the Faculty concerned, again complete all the required work in that course to the satisfaction of the teaching staff concerned.

4.3 A candidate who does not complete the required assessment tasks in any course, shall be deemed to have failed the course.

4.4 There shall be four classifications of pass in any courses for the Bachelor degree, as follows: Pass with High Distinction, Pass with Distinction, Pass with Credit, and Pass.

5 Qualification requirements

5.1 Academic program

To qualify for the degree of Bachelor of International Studies a candidate shall present passes in courses to a value of 72 units that satisfy the following requirements:

Level I

(a) POLI 1102 Introduction to International Politics

POLI 1104 Introduction to Comparative Politics

(b) Two courses from the following:

ASIA 1103 Asia and the World

HIST 1105 Europe Empire and the World 1492 - 1914

HIST 1106 The Twentieth Century: A World in Turmoil

(c) Level I courses to the value of 12 units chosen from those listed in 6.12.1 for the Bachelor of Arts, or other courses offered by the University at Level I which are available to them.

Level II

(d) INST 2001 International Studies (core)

POLI 2002 Comparative Politics

POLI 2081 Post-Cold War International Relations

(e) Level II courses to the value of 12 units chosen from those listed in 6.12.2 for the Bachelor of Arts, or other courses offered by the University at Level II which are available to them

Level III

(f) Level III International Studies elective courses to the value of 24 units (including International Exchange or In-country studies to the value of 24 units, and language courses to the value of 12 units).

5.2 Unacceptable combinations of courses

5.3 Repeating courses

5.4 Cross-institutional study

5.5 International exchanges

5.6 Conceded passes

5.7 Discipline limits

5.8 Prerequisites

5.9 Surplus to requirement

5.10 Counting units toward a lower level of the degree

5.11 Review of academic progress

5.12 Graduation

For information on Rules 5.2 - 5.12, refer to Rule 7 of the Academic Program Rules for the Bachelor of Arts.

5.13 Double degree arrangements

For information on Rule 5.13, refer to Rule 3.1 of the Academic Program Rules for the Bachelor of Arts.

6 Special circumstances

When in the opinion of the relevant Faculty special circumstances exist, the Council, on the recommendation of the Faculty in each case, may vary any of the provisions of the Academic Program Rules for any particular award.

Bachelor of International Studies – Graduate Attributes

The Faculty of Humanities and Social Sciences facilitates an environment in which graduates are encouraged to take personal responsibility for developing the following attributes:

- A complex understanding of key processes in international relations such as diplomacy, the world economy, security and conflict.
- An understanding of the interests and interrelationships of key actors and institutions in world politics, including states, NGOs, people, and international organisations such as the UN, WTO and IMF.
- A broad general knowledge, and knowledge in at least one region of the world in an international context.
- An appreciation of the processes of globalisation and their impact in social, economic, political, cultural and legal contexts.
- A heightened sensitivity to causal relationships between events in world politics.
- A trained mind with the skills and discipline to research, synthesise, analyse and present information, using a range of technologies and resources.
- A clear understanding of ethical issues in their professional and intellectual contexts, relating in particular to human rights, transparency and accountability, good governance and the public interest.
- Increased critical and analytical thinking skills.
- Well-developed conceptual skills.
- Highly developed verbal and written skills.
- An understanding of, and respect for, global cultural difference and diversity.
- An enhanced capacity for democratic and global citizenship.
- An increased maturity of social judgement.
- An appreciation of questions of global inequality and responsibility.
- An understanding of, and commitment to, the importance of lifelong learning.
- A sense of their place in the community of scholars and in the wider community, including their role in contributing to the disciplines within International Studies.

Bachelor of Media

Academic Program Rules

1 General

There shall be a degree of Bachelor of Media.

2 Duration of program

2.1 The program of study for the Bachelor degree shall extend over three years of full-time study or part-time equivalent.

2.2 Candidates shall complete the requirements of the award within ten years. In determining a candidate's eligibility for the award of the degree, the Faculty will not normally count courses passed more than 10 years previously.

3 Admission

3.1 Status, exemption and credit transfer

Students who have passed courses in Bachelor degree awards or equivalent at the University of Adelaide or another recognised institution, who wish to count such courses towards their degree, will be granted status to specified maximum limits. Students are not obliged to count the status awarded.

Where studies have been undertaken at an institution other than the University of Adelaide, a written application for status, accompanied by a transcript or statement of results, must be submitted to the Faculty Registrar. No application for status is required where the previous studies have been undertaken at the University of Adelaide.

The maximum status limits are as follows:

(a) 12 units at level I on account of studies in any academic discipline in lieu of the requirements of 5.1 (c)

(b) 12 units at level II on account of studies in any academic discipline in lieu of the requirements of 5.1 (e).

3.2 Status will not normally be awarded for any of the compulsory courses.

3.3 For further information on status rules, refer to 3.1 of the Academic Program Rules for the Bachelor of Arts.

4 Assessment and examinations

4.1 A candidate shall not be eligible to be assessed by examination or otherwise unless the prescribed work has been completed to the satisfaction of the teaching staff concerned. A candidate who is not eligible to be assessed by examination or otherwise shall be deemed to have failed the course.

4.2 A candidate who fails in a course or who obtains a lower division pass and who desires to take the course again shall, unless exempted wholly or partially by the Executive Dean of the Faculty concerned, again complete all the required work in that course to the satisfaction of the teaching staff concerned.

4.3 A candidate who does not complete the required assessment tasks in any course, shall be deemed to have failed the course.

4.4 There shall be four classifications of pass in any courses for the Bachelor degree, as follows: Pass with High Distinction, Pass with Distinction, Pass with Credit, and Pass.

5 Qualification requirements

5.1 Academic program

To qualify for the degree of Bachelor of Media a candidate shall present passes in courses to a value of 72 units that satisfy the following requirements:

Level I

(a) ENGL 1105 Media Studies 3
MDIA 1002 Media Engagements 3
SOCI 1002 Image, Text and Representation 3

(b) Level I courses to the value of 3 units chosen from those listed in 6.12.1 for the Bachelor of Arts.

(c) Level I courses to the value of 12 units chosen from those listed in 6.12.1 for the Bachelor of Arts, or other courses offered by the University at Level I which are available to them.

Level II

(d) MDIA 2202 Media Policy and Media Law 4
MDIA 2204 Media Research Methods 4
PHIL 2023 Professional Ethics 4

(e) Level II courses to the value of 12 units chosen from the following:

Humanities and Social Sciences courses listed in 6.12.2 for the Bachelor of Arts, or other courses offered by the University at Level II which are available to them

or

Media Production courses (to a maximum of 4 units) *or*

Media courses not previously undertaken.

Level III

(f) MDIA 3301 Professional Practice

MDIA 3303 Media Theory

(g) Level III courses to the value of 12 units chosen from the following:

Humanities and Social Sciences courses listed in 6.12.3 for the Bachelor of Arts *or*

MDIA 3302 Media Industry Placement *or*

Media Production courses (to a maximum of 6 units) *or*

Media courses not previously undertaken .

5.2 Unacceptable combinations of courses

5.3 Repeating courses

5.4 Cross-institutional study

5.5 International exchanges

5.6 Conceded passes

5.7 Discipline limits

5.8 Prerequisites

5.9 Surplus to requirement

5.10 Counting units toward a lower level of the degree

5.11 Review of academic progress

5.12 Graduation

For information on Rules 5.2 - 5.12, refer to Rule 7 of the Academic Program Rules for the Bachelor of Arts.

5.13 Double degree arrangements

For information on Rule 5.13, refer to Rule 3.1 of the Academic Program Rules for the Bachelor of Arts.

6 Special circumstances

When in the opinion of the relevant Faculty special circumstances exist, the Council, on the recommendation of the Faculty in each case, may vary any of the provisions of the Academic Program Rules for any particular award.

Bachelor of Media – Graduate Attributes

The Faculty of Humanities and Social Sciences facilitates an environment in which graduates are encouraged to take personal responsibility for developing the following attributes:

- Depending on a candidate's area/s of interest and/or specialisation, graduates of the Bachelor of Media are expected to have highly developed theoretical, critical and practical skills necessary to function effectively in any field of the media and communication industry (radio, television, film, publishing, multimedia, advertising and public relations).
- Graduates are empowered with the understanding of the role and effects of media and new technologies on everyday life.
- Graduates are equipped with the necessary tools to understand and analyse media cultures from a global perspective.
- Graduates acquire a professional media training that emphasises a synergy between theory and practice.
- Graduates acquire cognitive and critical skills necessary to produce, evaluate, synthesise and interpret media texts (audiovisual and literary materials).
- Graduates acquire conceptual, analytic and communication skills necessary to function effectively in their chosen field of media practice.
- Graduates acquire technological skills necessary to successfully navigate their way through the ever-changing media landscape.
- Graduates acquire the necessary skills required to develop positive interpersonal relationships in their place of work.
- Graduates see their training as an integral part of social formation.
- Graduates will have an understanding of the impacts of changing media technologies in society.
- Graduates will have an understanding of professional, ethical and cultural policy issues in relation to the media.
- Graduates will have an understanding of multicultural sensitivities both within Australia and the convergent global media market.
- Graduates will have an understanding of the need to be reflexive practitioners and to develop a sense of social responsibility in the execution of their duties.

Bachelor of Social Sciences

Academic Program Rules

1 General

There shall be a degree of Bachelor of Social Sciences.

2 Duration of program

2.1 The program of study for the Bachelor degree shall extend over three years full-time or part-time equivalent.

2.2 Students shall complete the requirements of the award within ten years. In determining a student's eligibility for the award of the degree, the Faculty will not normally count any course passed more than 10 years previously.

3 Admission

3.1 Status, exemption and credit transfer

Students who have passed courses in Bachelor degree awards or equivalent at the University of Adelaide or another recognised institution, who wish to count such courses towards their degree, will be granted status to specified maximum limits. Students are not obliged to count the status awarded.

Where studies have been undertaken at an institution other than the University of Adelaide, a written application for status, accompanied by a transcript or statement of results, must be submitted to the Faculty Registrar. No application for status is required where the previous studies have been undertaken at the University of Adelaide.

The maximum status limits are as follows:

(a) 12 units at level I on account of studies in any academic discipline in lieu of the requirements of 5.1 (c)

(b) 12 units at level II on account of studies in any academic discipline in lieu of the requirements of 5.1 (f)

3.2 Status will not normally be awarded for any of the compulsory courses. However, students enrolled in PSYCHOL 2002 Psychology IIA, PSYCHOL 2003 Psychology IIB and PSYCHOL 2001 Psychological Research Methodology II may apply for exemption from the compulsory course SOCI 2002 Social Science Techniques.

3.3 For further information on status rules, refer to 3.1 of the Academic Program Rules for the Bachelor of Arts.

4 Assessment and examinations

4.1 A candidate shall not be eligible to be assessed by examination or otherwise unless the prescribed work has been completed to the satisfaction of the teaching staff concerned. A candidate who is not eligible to be assessed by examination or otherwise shall be deemed to have failed the course.

4.2 A candidate who fails in a course or who obtains a lower division pass and who desires to take the course again shall, unless exempted wholly or partially by the Executive Dean of the Faculty concerned, again complete all the required work in that course to the satisfaction of the teaching staff concerned.

4.3 A candidate who does not complete the required assessment tasks in any course, shall be deemed to have failed the course.

4.4 There shall be four classifications of pass in any courses for the Bachelor degree, as follows: Pass with High Distinction, Pass with Distinction, Pass with Credit, and Pass.

5 Qualification requirements

5.1 Academic program

To qualify for the degree of Bachelor of Social Sciences a student shall present passes in courses to the value of 72 units which satisfy the following requirements:

Level I

(a) GEOG 1004 Population, Globalisation and Social Justice 3

SOCI 1001 Social Sciences in Australia 3

(b) Level I courses to the value of 6 units chosen from those areas listed in 5.1.1 as Social Sciences

(c) Level I courses to the value of 12 units chosen from those listed in 6.12.1 for the Bachelor of Arts, or other courses offered by the University at Level I which are available to them.

Level II

(d) SOCI 2002 Social Science Techniques 4

(e) Level II courses to the value of 8 units chosen from those listed in 5.1.1 as Social Sciences, being the Level II component of a major sequence (see 5.1.1 below)

(f) Level II courses to the value of 12 units chosen from those listed in 6.12.2 for the Bachelor Arts or other courses offered in the University at Level II which are available to them.

Level III

(g) SOCI 3004 Social Research 6

(h) Level III Applied Social Science elective course to the value of 6 units

(i) Level III courses to the value of 12 units chosen from those listed in 5.1.1 as Social Sciences, being the Level III component of a major sequence (see 5.1.1 below)

5.1.1 Level II and III - Major Sequence

8 units of courses at Level II and 12 units of courses at Level III must be chosen from one of the following Social Sciences areas of study, to form a 'major sequence':

Anthropology
Asian Studies
Cultural Studies
Economics
Environmental Studies
Gender Studies
Geography
History
International Studies
Linguistics
Media and Communication
Philosophy
Politics
Psychology - major sequence must include:
PSYCHOL 2001 Psychological Research Methodology II
and
PSYCHOL 3000 Psychological Research Methodology III

5.2 Bachelor of Social Sciences/Health Sciences double degree program

5.2.1 The Bachelor of Social Sciences/Health Sciences is a double degree which is designed to be completed in 4 years of full-time study or part-time equivalent (96 units). Students are required to complete a major in both Social Sciences and Health Sciences. Students who complete the requirements for both degrees are awarded 2 degrees and 2 parchments.

5.2.2 Academic program

To qualify for the double degree of Bachelor of Social Sciences/Health Sciences, a student shall present passes in courses to the value of 96 units, which satisfy the following requirements:

Level I

(a) ANAT SC 1102 Human Biology IA 3
ANAT SC 1103 Human Biology IB 3
PUB HLTH 1001 Public Health IA 3
PUB HLTH 1002 Public Health IB 3
GEOG 1004 Population, Globalisation and Social Justice 3
SOCI 1001 Social Sciences in Australia 3

(b) Level I courses to the value of 6 units chosen from those areas listed in 5.1.1 as Social Sciences

Level II

(c) SOCI 2002 Social Science Techniques 4
PATHOL 2000 Biology of Disease II 4

(d) Level II courses to the value of 8 units chosen from those listed in 5.1.1 as Social Sciences, being the Level II component of a major sequence (see 5.1.1 above)

(e) Level II courses to the value of 8 units chosen from those listed in 5.1.2 (b) for the Bachelor of Health Sciences that lead to a Level III major sequence in Health Sciences

Level III and IV

24 units for each award separately as follows:

Bachelor of Social Sciences

(f) SOCI 3004 Social Research 6

(g) Level III courses to the value of 12 units chosen from those listed in 5.1.1 as Social Sciences, being the Level III component of a major sequence (see 5.1.1 above)

(h) Level III Applied Social Science elective course to the value of 6 units

Bachelor of Health Sciences

(i) Level III courses to the value of 12 units chosen from a single area of study listed in 5.1.3 (a) for the Bachelor of Health Sciences, being the Level III component of a major sequence

(j) Level III Health Sciences courses to the value of 12 units, or up to 12 units of Level III courses offered by the Faculty of Humanities and Social Sciences..

5.3 Unacceptable combinations of courses

5.4 Repeating courses

5.5 Cross-institutional study

5.6 International exchanges

5.7 Conceded passes

5.8 Discipline limits

5.9 Prerequisites

5.10 Surplus to requirement

5.11 Counting units toward a lower level of the degree

5.12 Review of academic progress

5.13 Graduation

For information on Rules 5.3 - 5.13, refer to Rule 7 of the Academic Program Rules for the Bachelor of Arts.

5.10 Status and double degree arrangements

For information on Rule 5.15, refer to Rule 3.1 of the Academic Program Rules for the Bachelor of Arts.

6 Special circumstances

When in the opinion of the relevant Faculty special circumstances exist, the Council, on the recommendation of the Faculty in each case, may vary any of the provisions of the Academic Program Rules for any particular award.

Bachelor of Social Sciences– Graduate Attributes

The Faculty of Humanities and Social Sciences facilitates an environment in which graduates are encouraged to take personal responsibility for developing the following attributes:

- A working knowledge of the range of social science disciplines and the research methodologies used within them.
- An understanding of the principles underlying both qualitative and quantitative social research methods.
- The capacity to interpret and critically evaluate social science research from a range of disciplines.
- The capacity to frame a research problem and devise appropriate and effective ways of examining it.
- Competency in applied research within at least one social science discipline (including design, analysis, conduct of research and reporting findings).
- Proficiency in computer based skills appropriate to research in at least one social science discipline.
- Skills to work independently as well as collaboratively as part of a research team.
- An understanding of the interdependence of theoretical and research activities within the social sciences.
- The capacity to transfer learning from one research context to another.
- Recognition of and respect for the ethical principles which underpin socially responsible social science research and scholarship.
- Commitment to principles of social justice and respect for cultural diversity.

Bachelor of Arts (Honours)

Academic Program Rules

1 General

There shall be a degree of Bachelor of Arts (Honours). It is designed as a one year degree program to be undertaken following completion of an approved undergraduate degree.

A student may gain one or more (subject to the provisions outlined in 3.4 below) of the following degree:

Honours degree of Bachelor of Arts.

2 Duration of program

The work of the Honours year must be completed in one full year of full-time study, other than that on the recommendation of the Head of the School/s concerned, or the Award Committee concerned, where the Faculty may permit a student to spread the work over two years, but not more, under such conditions as it may determine.

3 Admission

3.1 Students for the Honours degree shall not begin their Honours work until they have qualified for a Bachelor degree of the Faculty of Humanities and Social Sciences, or some other degree deemed by the Faculty to be appropriate preparation, and have completed a major sequence relevant to the appropriate Honours degree syllabus, or equivalent acceptable to the School concerned, in their undergraduate degree.

3.2 Students wishing to take Honours must obtain the approval of the Head of School/s.

3.3 A student may not enrol a second time for Honours in the same degree and School if the student

(i) has presented for examination in that School but has failed to obtain Honours *or*

(ii) withdraws from the program, unless the Faculty under Rule 4.4 permits the student to re-enrol.

3.4 No graduate who has obtained an Honours degree in a course or field of study in another School or equivalent may obtain the Honours degree of Bachelor of Arts in a corresponding course, field of study, or School of the Faculty of Humanities and Social Sciences.

4 Assessment and examinations

4.1 Except by permission of the Faculty, a student shall take the whole of the final examination (if any) for the Honours degree at the one annual examination.

4.2 A candidate who satisfies the requirements for Honours shall be awarded the Honours degree, but the Faculty shall decide within which of the following classes and divisions the degree shall be awarded:

1	First Class	80-100
2A	Second Class div A	70-79
2B	Second Class div B	60-69
3	Third Class	50-59
NAH	Not awarded.	0-49

4.3 Attendance requirements

A candidate shall not be eligible to present for assessment, by examination, dissertation or otherwise, unless he or she has regularly attended the prescribed classes and has done written and laboratory or other practical work, where required, to the satisfaction of the School/s concerned.

A candidate is required to meet regularly with his or her supervisor during the preparation and writing of the dissertation component of the program. Pursuant to this clause, a candidate who is not eligible to present work for assessment will receive a final result of NAH (Not Awarded), unless he or she withdraws from the program before the required date.

4.4 Review of academic progress

A student who is unable to complete the program for the Honours degree within the time allowed, or whose work is unsatisfactory at any stage of the program, or who withdraws from the program, shall be reported to the Faculty which may permit the student to re-enrol for the Honours degree under such conditions (if any) as it may determine.

5 Qualification requirements

5.1 A student may proceed to the Honours degree in one of the courses listed in Rule 5.5 below, comprising coursework and a dissertation, or, if being supervised by more than one School, a combination of those courses. A combination requires Faculty approval on the recommendation of the Schools concerned and shall include such work as shall be deemed by the Faculty to be equivalent to a single course of 24 units.

5.2 The program of study and dissertation topic for the Honours year for students must be approved by the Head of the School/s concerned before enrolment.

5.3 A student may not proceed to the Honours degree in a course that is not listed in Rule 5.5 below.

5.4 A student wishing to proceed to Honours in courses within the Faculty of Mathematical and Computer Sciences is referred to the Academic Program Rules for the Honours Degree of Bachelor of Mathematical and Computer Sciences.

5.5 Academic program

A student may proceed to the Honours degree in one of the following courses or certain approved combinations of the following courses, provided that the student has obtained, before enrolment, the approval of the Head of the School/s concerned:

AGRE 4401A/B Honours Ancient Greek	24
ANTH 4401A/B Honours Anthropology	24
ASIA 4401A/B Honours Asian Studies	24
CHIN 4401A/B Honours Chinese Studies	24
CLAS 4401A/B Honours Classical Studies	24
CULT 4401A/B Honours Cultural Studies	24
ECON 4403A/B Honours Economics	24
ENGL 4401A/B Honours English	24
ENGL 4402A/B Honours Creative Writing	24
ENVT 4401A/B Honours Environmental Studies	24
ETHNO 4004A/B Honours Ethnomusicology (B.A.)	24
EUST 4401A/B Honours European Studies	24
FREN 4401A/B Honours French Studies	24
GEND 4401A/B Honours Gender Studies	24
GEOG 4401A/B Honours Geography	24
GERM 4401A/B Honours German Studies	24
HIST 4401A/B Honours History	24
INST 4402A/B Honours International Studies	24
JAPN 4401A/B Honours Japanese Studies	24
LATN 4401A/B Honours Latin	24
LBST 4401A/B Honours Labour Studies	24
LING 4401A/B Honours Linguistics	24
MDIA 4401A/B Honours Media	24
MUSICOL 4007A/B Honours Musicology (B.A.)	24
PHIL 4401A/B Honours Philosophy	24
POLI 4401A/B Honours Politics	24
PSYCHOL 4000A/B Honours Psychology	24

Students who have been granted permission to study an honours program supervised by two Schools will be advised of the appropriate course title and code at the time of enrolment.

5.6 Graduation

Subject to Chapter 89 of the Statutes, candidates who have satisfied the requirements for any award of the University shall be admitted to that award at a graduation ceremony for the purpose.

6 Special circumstances

When in the opinion of the relevant Faculty special circumstances exist, the Council, on the recommendation of the Faculty in each case, may vary any of the provisions of the Academic Program Rules for any particular award.

Notes to Academic Program Rule 5 (not forming part of the Rule)

The coursework and dissertation submitted to fulfil the requirements of the B.A.(Hons) is marked twice and referred to a third marker in the event of a discrepancy between the two original markers. The coursework and dissertation may not be submitted for additional remarking after the final result for Honours has been awarded.

Bachelor of Environmental Studies (Honours)

Note: There will be no intake into this academic program in 2005

Academic Program Rules

1 General

A student may gain a degree of Bachelor of Environmental Studies, an Honours degree of Bachelor of Environmental Studies, or both.

2 Duration of program

The work of the Honours year must be completed in one year of full-time study, save that on the recommendation of the Head of the School or Schools or Award Committee concerned, the Faculty may permit a student to spread the work over two years, but not more, under such conditions as it may determine.

3 Admission

3.1 Students for the Honours degree shall not begin their Honours work until they have qualified for the degree of Bachelor of Environmental Studies or some other degree deemed by the Faculty of Humanities and Social Sciences to be appropriate preparation.

3.2 Students wishing to take Honours must obtain the approval of the Head of the School or Schools, or of the Award Committee for named degrees.

3.3 A student may not enrol a second time for Honours in the same degree and School if the student has presented for examination in that School but has failed to obtain Honours; or withdraws from the program, unless the Faculty under Rule 8, below permits the student to re-enrol.

4 Assessment and examinations

4.1 A candidate who satisfies the requirements for Honours shall be awarded the Honours degree, but the Faculty shall decide within which of the following classes and divisions the degree shall be awarded:

1	First Class
2A	Second Class div A
2B	Second Class div B
3	Third Class
NAH	Not awarded.

4.2 Attendance requirements

A candidate shall not be eligible to present for assessment, by examination, thesis or otherwise, unless he or she has regularly attended the prescribed classes and has done written and laboratory or other practical work, where required, to the satisfaction of the School/s concerned. A candidate is required to meet regularly with his or her superviser during the preparation and writing of the thesis component of the program.

Pursuant to this clause, a candidate who is not eligible to present work for assessment will receive a final result of NAH (Not Awarded), unless he or she withdraws from the program before the required date.

4.3 Review of academic progress

A student who is unable to complete the program for the Honours degree within the time allowed, or whose work is unsatisfactory at any stage of the program, or who withdraws from the program, shall be reported to the Faculty which may permit the student to re-enrol for the Honours degree under such conditions (if any) as it may determine.

5 Qualification requirements

5.1 A student may proceed to the Honours degree in the course listed in Rule 6, below, comprising coursework and a dissertation, or, if being supervised by more than one School, a combination of this course and a course or courses offered at the Honours level by the other School. A combination requires Faculty approval on the recommendation of the Schools concerned and shall include such work as shall be deemed by the Faculty to be equivalent to a single course of a units value of 24 units.

5.2 The program of study and dissertation topic for the Honours year for students must be approved by the Head of the School or Schools or Award Committee concerned before enrolment.

5.3 A student may, subject to the approval of the Faculty in each case, proceed to the Honours degree in a course taught in a School in another Faculty. Such students must consult the Head of the School concerned who must seek the approval of the Faculty of Humanities and Social Sciences.

5.4 Academic program

A student may proceed to the Honours degree in the following course, provided that the student has obtained, before enrolment, the approval of the Head of Geographical and Environmental Studies:

ENVT 4401A/B Honours Environmental Studies 24

A student may also proceed to the Honours degree in certain approved combinations of the course 2521 Honours Environmental Studies and a courses or courses offered by another School at the Honours level, provided that the student has obtained, before enrolment, the approval of Head of the School or Schools or Award Committee concerned.

Students who have been granted permission to study in a joint honours program supervised by Geographical and Environmental Studies and another School will be advised of the appropriate course title and code at the time of enrolment.

5.5 Graduation

Subject to Chapter 89 of the Statutes, candidates who have satisfied the requirements for any award of the University shall be admitted to that award at a graduation ceremony for the purpose.

6 Special circumstances

When in the opinion of the relevant Faculty special circumstances exist, the Council, on the recommendation of the Faculty in each case, may vary any of the provisions of the Academic Program Rules for any particular award.

Notes to Academic Program Rule 5 (not forming part of the Rule)

The coursework and dissertation submitted to fulfil the requirements of the B.Env.St.(Hons) is marked twice and referred to a third marker in the event of a discrepancy between the two original markers. The coursework and dissertation may not be submitted for additional remarking after the final result for Honours has been awarded.

Bachelor of International Studies (Honours)

Note: There will be no intake into this academic program in 2005

Academic Program Rules

1 General

A student may gain a degree of Bachelor of International Studies, an Honours degree of Bachelor of International Studies, or both.

2 Duration of program

The work of the Honours year must be completed in one year of full-time study, save that on the recommendation of the Head of the Discipline of Politics, the Faculty may permit a student to spread the work over two years, but not more, under such conditions as it may determine.

3 Admission

3.1 Students wishing to take Honours must have completed the degree of Bachelor of International Studies or equivalent as acceptable to the University. Admission to Honours is at the discretion of the Head of the Discipline of Politics.

4 Assessment and examinations

4.1 A candidate who satisfies the requirements for Honours shall be awarded the Honours degree, but the Faculty shall decide within which of the following classes and divisions the degree shall be awarded:

1	First Class
2A	Second Class div A
2B	Second Class div B
3	Third Class
NAH	Not awarded.

4.2 Review of academic progress

4.2.1 A student who is unable to complete the program for the Honours degree within the time allowed, or whose work is unsatisfactory at any stage of the program, or who withdraws from the program, shall be reported to the Faculty which may permit the student to re-enrol for the Honours degree under such conditions (if any) as it may determine.

4.2.2 A student may not enrol a second time for the Honours degree of Bachelor of International Studies if the student:

(a) has already qualified for Honours in International Studies *or*

(b) has presented for but has failed to obtain the Honours degree of Bachelor of International Studies *or*

c) withdraws from the program, unless the Faculty under 4.2 above, permits the student to re-enrol.

5 Qualification requirements

5.1 Honours in International Studies is a full-year program (or two year part-time), involving weekly seminars, essays and a dissertation.

5.2 The choice of courses and dissertation topic by students must be approved by the Head of the Discipline of Politics before enrolment.

5.3 Arrangements are possible for joint honours combining study in Politics with study in other disciplines.

5.4 Academic program

All student must enrol in the course:

INST 4401A/B Honours International Studies	24

5.5 Graduation

Subject to Chapter 89 of the Statutes, candidates who have satisfied the requirements for any award of the University shall be admitted to that award at a graduation ceremony for the purpose.

6 Special circumstances

When in the opinion of the relevant Faculty special circumstances exist, the Council, on the recommendation of the Faculty in each case, may vary any of the provisions of the Academic Program Rules for any particular award.

Note to Academic Program Rule 5 (not forming part of the Rule)

The coursework and dissertation submitted to fulfil the requirements of the B.Int.St.(Hons) is marked twice and referred to a third marker in the event of a discrepancy between the two original markers. The coursework and dissertation may not be submitted for additional remarking after the final result for Honours has been awarded.

Bachelor of Social Sciences (Honours)

Note: There will be no intake into this academic program in 2005

Academic Program Rules

1 General

A student may gain a degree of Bachelor of Social Sciences, an Honours degree of Bachelor of Social Sciences, or both.

2 Duration of the award

The work of the Honours year must be completed in one year of full-time study, save that on the recommendation of the Head of the School or Schools or Award Committee concerned, the Faculty may permit a student to spread the work over two years, but not more, under such conditions as it may determine.

3 Admission

3.1 Students for the Honours degree shall not begin their Honours work until they have qualified for an Bachelor degree of the Faculty of Humanities and Social Sciences, or some other degree deemed by the Faculty to be appropriate preparation, and have completed a major sequence relevant to the appropriate Honours degree syllabus, or equivalent acceptable to the School or Award Committee concerned, in their undergraduate degree.

3.2 Students wishing to take Honours must obtain the approval of the Head of the School or Schools, or of the Award Committee for named degrees concerned.

3.3 A student may not enrol a second time for Honours in the same degree and School if the student has presented for examination in that School but has failed to obtain Honours; or withdraws from the program, unless the Faculty under Rule 4 permits the student to re-enrol.

4 Assessment and examinations

4.1 Except by permission of the Faculty a student shall take the whole of the final examination (if any) for the Honours degree at the one annual examination.

4.2 A candidate who satisfies the requirements for Honours shall be awarded the Honours degree, but the Faculty shall decide within which of the following classes and divisions the degree shall be awarded:

1 First Class
2A Second Class div A
2B Second Class div B
3 Third Class
NAH Not awarded.

4.3 Attendance requirements

A candidate shall not be eligible to present for assessment, by examination, thesis or otherwise, unless he or she has regularly attended the prescribed classes and has done written and laboratory or other practical work, where required, to the satisfaction of the school/s concerned. A candidate is required to meet regularly with his or her superviser during the preparation and writing of the thesis component of the program.

Pursuant to this clause, a candidate who is not eligible to present work for assessment will receive a final result of NAH (Not Awarded), unless he or she withdraws from the program before the required date.

4.4 Review of academic progress

A student who is unable to complete the program for the Honours degree within the time allowed, or whose work is unsatisfactory at any stage of the program, or who withdraws from the program, shall be reported to the Faculty which may permit the student to re-enrol for the Honours degree under such conditions (if any) as it may determine.

5 Qualification requirements

5.1 A student may proceed to the Honours degree in one of the courses listed in Rule 6, below, comprising coursework and a dissertation, or, if being supervised by more than one School, a combination of those courses. A combination requires Faculty approval on the recommendation of the Schools concerned and shall include such work as shall be deemed by the Faculty to be equivalent to a single course of a units value of 24 units.

5.2 The program of study and dissertation topic for the Honours year for students must be approved by the Head of the School or Schools or Award Committee concerned before enrolment.

5.3 A student may, subject to the approval of the Faculty in each case, proceed to the Honours degree in a course taught in a School in another Faculty. Such students must consult the Head of the School concerned who must seek the approval of the Faculty of Humanities and Social Sciences.

5.4 Academic program

A student may proceed to the Honours degree in one of the following courses or certain approved combinations of the following courses, provided that the student has obtained, before enrolment, the approval of the Head of the School concerned:

ANTH 4401A/B Honours Anthropology	24
ASIA 4401A/B Honours Asian Studies	24
CULT 4401A/B Honours Cultural Studies	24
ECON 4403A/B Honours Economics	24
ENVT 4401A/B Honours Environmental Studies	24
GEND 4401A/B Honours Gender Studies	24
GEOG 4401A/B Honours Geography	24
HIST 4401A/B Honours History	24
INST 4402A/B Honours International Studies	24
LBST 4401A/B Honours Labour Studies	24
LING 4401A/B Honours Linguistics	24
PHIL 4401A/B Honours Philosophy	24
POLI 4401A/B Honours Politics	24
PSYCHOL 4000A/B Honours Psychology	24

Students who have been granted permission to study in a joint honours program supervised by the two Schools will be advised of the appropriate course title and code at the time of enrolment.

5.5 Social Sciences/Health Sciences joint honours program

Students who complete the requirements of the double degree programs at a sufficiently high level will be able to undertake an honours study worth 24 units comprising:

Honours Health Sciences course	6
Honours Social Sciences course	6
Thesis jointly supervised between Health Sciences and Social Sciences	12

5.6 Graduation

Subject to Chapter 89 of the Statutes, candidates who have satisfied the requirements for any award of the University shall be admitted to that award at a graduation ceremony for the purpose.

6 Special circumstances

When in the opinion of the relevant Faculty special circumstances exist, the Council, on the recommendation of the Faculty in each case, may vary any of the provisions of the Academic Program Rules for any particular award.

Note to Academic Program Rule 5 (not forming part of the Rule)

The program, work and dissertation submitted to fulfil the requirements of the B.Soc.Sc.(Hons) is marked twice and referred to a third marker in the event of a discrepancy between the two original markers. The course work and dissertation may not be submitted for additional remarking after the final result for Honours has been awarded.

Law School

Contents

www.law.adelaide.edu.au

Bachelor of Laws
LL.B. 201

Undergraduate awards in the Law School

- Degree of Bachelor of Laws
- Degree of Bachelor of Laws with Honours
- Honours degree of Bachelor of Laws

Notes on Delegated Authority

1 Council has delegated the power to approve minor changes to the Academic Program Rules to the Executive Deans of Faculties.

2 Council has delegated the power to specify syllabuses to the Head of each department or centre concerned, such syllabuses to be subject to approval by the Faculty or by the Executive Dean on behalf of the Faculty.

Bachelor of Laws

Academic Program Rules

1 General

There shall be a degree, which may be awarded with Honours, and an Honours degree of Bachelor of Laws.

2 Duration of program

The program for all combined degrees shall extend over 5.5 years of full-time study or the part-time equivalent, except for Engineering which shall extend over 6.5 years.

For candidates studying for the Bachelor of Laws only, full-time study shall extend over 4 years for non-graduates, 3.5 years for Graduate entrants and no less than 2 years for Later Year Entrants.

3 Admission

3.1 Admission as a candidate for the degree is subject to quotas and selection procedures currently operating in the School. The admission requirements for this program of study are those outlined in the Rules made by Council pursuant to Chapter IX of the University Statutes – Of Admission and Enrolment.

Note to Academic Program Rule 3.1 (not forming part of the Rule)

1 The normal admission procedure recommended for students other than graduates or later year entrants who wish to proceed to the degree of Bachelor of Laws is as follows:

(a) Apply for entry to candidature in the School Leavers, Special Entry or Tertiary Transfer subquota.

(b) Apply for entry to candidature for one of the following degrees at the University of Adelaide:

Bachelor of Arts (B.A.)

Bachelor of Commerce (B.Com.)

Bachelor of Computer Science (B.Comp.Sc.)

Bachelor of Design Studies (B.Des.St.)

Bachelor of Economics (B.Ec.)

Bachelor of Engineering (Chemical) (B.E.(Chem))

Bachelor of Engineering (Civil and Environmental) (B.E.(Civil & Env.))

Bachelor of Engineering (Civil & Structual) (B.E.(Civil & Struct.))

Bachelor of Engineering (Computer Systems) (B.E.(Comp.Sys.))

Bachelor of Engineering (Electrical & Electronic)(B.E.(Elec.))

Bachelor of Engineering (Mechanical) (B.E.(Mech))

Bachelor of Engineering (Telecommunications) (B.E. (Telecomm.))

Bachelor of Environmental Studies (B.Env.St.)

Bachelor of Finance (B.Fin.)

Bachelor of Health Sciences (B.Health Sc.)

Bachelor of International Studies (B.Int.St.)

Bachelor of Mathematical and Computer Sciences (B.Ma.& Comp.Sc.)

Bachelor of Media (B.Media)

Bachelor of Science (B.Sc)*

Bachelor of Social Sciences (B.Soc.Sc.)

or

applicants who have already commenced but have not completed non-law studies, and who wish to continue studying their current program concurrently with Law, apply using the Tertiary Transfer stream code or No Second degree stream code

or

applicants who are not graduates and intend to study law only apply using the No Second Degree stream code.

*It should be noted that in Science the resultant degree awarded shall be the Bachelor of Science (Jurisprudence). Entrants to Science seeking to do Law should ensure their first year enrolment meets the B.Sc.(Juris.) requirements.

3.2 Places in the courses LAW 1001 Introduction to Australian Law, LAW 1002 Law of Torts and LAW 1003 Law of Contract are only available to students who have been accepted as a candidate for the LL.B.

3.3 In determining a candidate's eligibility for the award of the degree, the School may disallow any course completed more than 10 years ago. Where a course(s) is disallowed under this rule, a student will be required to undertake such additional or special programs of study as the School deems appropriate.

3.4 Status

(a) In lieu of any of the courses referred to in 5.4.1.1(b) below a candidate may present a law course or courses passed outside the University. Such courses must be approved and their units value determined by the School in each case.

(b) A candidate granted status must present courses taught at the University of Adelaide to the value of at least 50 units.

4 Assessment and examinations

4.1 (a) In determining a candidate's final result in a course, the assessors may take into account the assessments of the candidate's oral, written, practical or examination work in that course, provided that the candidate has been given notice at the beginning of the course of the circumstances in which the work may be taken into account and its relative importance in the final result

(b) A candidate may be required by the assessors in any course to do essays or other written work in a satisfactory manner as prerequisite to being assessed in that course, provided that candidates are given precise information about those requirements at the beginning of the course.

4.2 The School may grant to any student such exemption from 4.1 above, and under such conditions, as it shall decide.

4.3 There shall be four classifications of pass in any course or division of a course for the Bachelor degree as follows: Pass with High Distinction, Pass with Distinction, Pass with Credit, Pass.

4.4 If in the opinion of the School, a student for the degree is not making satisfactory progress the following action may be taken:

1 Where a student has failed courses they will be advised to seek Course Advice to assist them in their future studies.

2 If a student has failed more than three quarters of their previous year studies they will be restricted to enrolling in no more that 12 units of study each semester for the following year.

3 Where a student has twice failed to pass any compulsory course they will be permitted to present again for the subject only if their enrolment is restricted to a total of 12 units in the semester in which the course is undertaken.

4 Where a student has twice failed to pass any elective subject they will not permitted to enroll in the subject for a third time.

Exemption from these restrictions may only be varied by the Dean, where exceptional circumstances exist.

5 Qualification requirements

5.1 To qualify for the Bachelor degree a candidate shall comply with the relevant provisions of the Academic Program Rules.

5.2 To qualify for the Bachelor degree with Honours a candidate shall comply with the relevant provisions of Academic Program Rule 5.4.1.2 (a) & (b).

5.3 (a) To qualify for the Honours degree a candidate shall comply with the relevant provisions of Academic Program Rule 5.4.2.

(b) A candidate who satisfies the requirements of 5.3(a) above shall be awarded the Honours degree of Bachelor of Laws, but the School shall decide within which of the following classes and divisions the degree shall be awarded:

First Class

Second Class Division A
Division B

Third Class.

5.4 Academic program

5.4.1 The Bachelor degree

Introductory note to Academic Program Rule 5.4.1 (not forming part of the Rule):

The standard course load for the Bachelor of Laws degree is four years of full-time study for candidates studying Law only and three and a half years of full-time study for graduates or candidates completing a non-law degree also.

5.4.1.1 A candidate shall qualify for the degree if:

(a) the candidate has

(i) qualified for a degree in another faculty/school of the University *or*

(ii) been awarded at another university a degree which, in the opinion of the School of Law, is at least equivalent, for the purpose, to a degree in another faculty/school of the University *or*

(iii) been awarded at another tertiary institution a non-Law qualification at an academic level which has been accepted by the School *or*

(iv) elects to study an additional 12 units of elective courses from, 5.4.1.(b)(ii.) below, or non-law courses subject to the approval of the School / Faculty concerned.

(b) the candidate has passed:

(i) all the following compulsory courses:

LAW 1001 Introduction to Australian Law	4
LAW 1002 Law of Torts	4
LAW 1003 Law of Contract	4
LAW 1004 Law of Crime	4
LAW 1005 Property Law	4
LAW 2001 Legal Research and Writing	2
LAW 2002 Administrative Laws	4
LAW 2003 Australian Constitutional Law	4
LAW 2004 Corporate Law	4

LAW 2005 Equity 4
LAW 3001 Litigation Practice 2
LAW 3002 Civil and Criminal Procedure 4
LAW 3003 Law of Evidence 4
LAW 3004 Legal Ethics 2
LAW 3007 Introduction to Advocacy 2

and

(ii) elective courses with an aggregate units value of 32 units from the following (note 5.4.1.1(a)(iv) above):

LAW 1006 Introduction to Public International Law 4
LAW 2006 Australian Legal History 4
LAW 2007 Workers Compensation Law 2
LAW 2010 Research Project B 4
LAW 2011 Tax and the Revenue Concept Law 2
LAW 2013 Restitution 2
LAW 2014 Selected Issues in International Law 2
LAW 2015 Family Law 4
LAW 2016 Transnational Crime 4
LAW 2017 Human Rights Internship Program 4
LAW 2018 Revenue Law 4
LAW 2019 Remedies under the TPA 4
LAW 2020 Commercial Law and the Market 4
LAW 2021 Medical Law and Ethics 4
LAW 2022 Consumer Protection and Unfair Trading 2
LAW 2023 Roman Law 4
LAW 2024 Moot A 2
LAW 2026 Aboriginal People and the Law 4
LAW 2031 Financial Transactions 4
LAW 2036 Land Transactions 4
LAW 2052 Moot B 4
LAW 2053 Feminist Legal Theory 2
LAW 2059 Intellectual Property Law 4
LAW 2060 Selected Issues in Law of Crime and Procedure 4
LAW 2061 Public & Private Provision of Income Maintenance 4
LAW 2062 Succession 2
LAW 2064 Jurisprudence 4
LAW 2070 Environmental Law 2
LAW 2074 Property Theory 2
LAW 2081 Research Project A 2
LAW 2084 Jessup Moot 4
LAW 2085 Human Rights: International and National Perspectives 4
LAW 2092 Advanced Property Law 4
LAW 2096 Minerals and Energy Law 4
LAW 2097 Securities and Investment Law 4
LAW 2099 Law of the Person 4
LAW 2100 Commercial Equity 2
LAW 2104 The Conflict of Laws 4
LAW 2107 Media Law 4
LAW 2108 Media Law 2
LAW 2117 Advanced Contract Law 2
LAW 2122 Criminology 4
LAW 2132 Remedies 4
LAW 2135 Housing Law 2
LAW 2140 Expert Evidence 2
LAW 3005 Comparative Constitutional Law 4
LAW 3010 Alternative Dispute Resolution 4
LAW 3011 Advanced Advocacy 4
LAW 3012 Advanced Public Law 4
LAW 3013 Environmental Dispute Resolution 2
LAW 3014 Equality and Anti-Discrimination Law 2
LAW 3015 International Environmental Law 4
LAW 3016 Comparative Law 4
LAW 3017 Technology Law 4
LAW 3018 Comparative Native Title: Australia and Canada 2
LAW 3020 Public Interest Litigation 4
LAW 3021 Capital Gains Tax and the Taxation of Entities 2
LAW 3022 Immigration and Refugee Law 2
LAW 3025 Statutory Interpretation 4
LAW 3028 Regulation of Competition 4
LAW 3029 Corporate Finance 4
LAW 3044 Labour and Industrial Relations Law 4
LAW 3047 Environmental Protection Law 4
LAW 3049 Comparative Corporate Law and Theory 2
LAW 3060 Comparative Corporate Rescue Law 2
LAW 3065 Land and Water Resources Law 4
LAW 3066 Public International Law 4

LAW 3069 Corporate Governance	2
LAW 3071 Conservation Law	4
LAW 3080 Clinical Legal Education	4
LAW 3089 Honours Research and Writing	2
LAW 3090 Planning and Heritage Law	2
LAW 3098 Corporate Insolvency Law	4
LAW 3099 Dissertation Honours Law	6
LAW 4041 Wine Law	4
LAW 4144 International Justice and the Rule of Law	4
POLI 3082 South Australian Parliamentary Internship (Law)	4
POLI 3085 South Australian Internship Program (Law)	4

The School may determine that any elective course or courses referred to above be not offered in a particular year.

The units value of each course shall be that appearing after the name of the course.

(c) The School may determine, on such conditions as it considers appropriate, that a pass in a course offered under previous schedules is to be deemed to be a pass in a course or courses referred to in 5.4.1.1 (b) above

5.4.1.2 (a) A candidate may be awarded the degree of Bachelor of Law with Honours who:

(i) has satisfied the requirements of 5.4.1 above

(ii) has completed the courses required under 5.4.1.1(b) (i) and (ii) above with a final Honours course average of 71 or more (*calculated according to 5.4.2.1(b)) *and*

(iii) has satisfactorily completed such substantial legal writing as determined and at a standard as approved for the purpose of this clause by the School*.

(b) In calculating an average for the Bachelor Degree with Honours the following procedure shall be used*:

(i) the aggregate units value of all courses completed to at least pass level is calculated

(ii) courses are selected for the average in the order of marks gained, highest first, until their combined units value constitutes at least 65% of the aggregate units value of courses completed

(iii) the last course selected is given that units value which brings the total units value of courses selected to exactly 65% of the aggregate units value of courses completed

(iv) the mark in each course selected is multiplied by the course's units value, the marks (so multiplied) are added together, and their sum is divided by 65% of the aggregate units value of all courses completed

(v) to the average thus produced a bonus of .033 per course unit for a Distinction and .066 per course unit for a High Distinction will be added.

* These requirements are currently being reviewed - new provisions will operate for those graduating from 2005 and beyond.

5.4.2 The Honours degree

Introductory note to Academic Program Rule 5.4.2 (not forming part of the Rule).

A student who wishes to obtain an Honours degree of Bachelor of Laws must complete the courses LAW 3089 Honours Research and Writing (2 units) and LAW 3099 Dissertation Honours Law (6 units). These courses are normally undertaken in the second semester of the penultimate year and the first semester of the final year of the LL.B. program respectively. They are taken in lieu of other elective courses with an equivalent units value.

5.4.2.1 (a) Except with the permission of the School which will be granted only in special circumstances, candidates may not enrol for LAW 3089 Honours Research and Writing (2 units) and LAW 3099 Dissertation Honours Law (6 units) unless they have an honours course average of at least 75. An honours course average for this purpose is the average mark obtained in the best 48 units of whatever Law courses under this Rule a candidate has completed to at least pass level, provided that a candidate who is seeking to qualify for the Honours degree pursuant to 5.4.2.4 below must have completed Law courses under 5.4.1.1(b) above with an aggregate units value of at least 62.

(b) In calculating an Honours course average the following procedure shall be used:

(i) the aggregate units value of all courses completed is calculated

(ii) courses are selected for the average in the order of marks gained, highest first, until their combined units value constitutes 48 units of courses completed

(iii) the last course selected is given that units value which brings the total units value of courses selected to exactly 48 units

(iv) the mark in each course selected is multiplied by the course's units value, the marks (so multiplied) are added together, and their sum is divided by 48 units

(v) to the average thus produced a bonus of .033 per course unit for a Distinction and .066 per course unit for a High Distinction will be added.

This applies to all courses undertaken towards the program.

(c) When the School gives special permission under 5.4.2.1(a) above it shall at the same time settle an honours course average.

(d) In cases where a candidate has been

(i) granted status in a course (see relevant section on status under Student Related Polices In Student Guide 2003)

(ii) permitted by the School to present a course for the degree pursuant to 3.4 above the School shall determine a mark for the course which shall be used for the purposes of calculating the candidate's honours course average.

5.4.2.2 The School of Law shall determine each year how many eligible candidates qualified under this rule its resources allow it to supervise. Only candidates accepted for supervision shall be permitted to enrol for LAW 3089 Honours Research and Writing (2 units) and LAW 3099 Dissertation Honours Law (6 units) ('the honours program').

5.4.2.3 In order to be considered for honours supervision in a particular year a candidate who has qualified for the Bachelor degree and who, although eligible to do so, did not undertake the course LAW 3099A/B Dissertation Honours Law, in the year after qualifying for the degree, must notify the School Manager in writing of the intention to enrol in that course. The notice must be provided to the School Manager by December of the year prior to the course being undertaken.

5.4.2.4 A candidate shall qualify for the Honours degree of Bachelor of Laws if:

(a) the candidate has

(i) qualified for a degree in another faculty/school of the University *or*

(ii) obtained in another university a degree which in the opinion of the School of Law is at least equivalent, for the purpose, to a degree in another faculty/school of the University

(b) the candidate has passed

(i) the compulsory courses listed in 5.4.1.1(b)(i) above or their equivalent *and*

(ii) elective courses with a total units value of 24 from those listed in 5.4.1.1(b)(ii) above or those available under previous program rules *and*

(c) the candidate has satisfactorily completed the courses LAW 3089 Honours Research and Writing (2 units) and LAW 3099 Dissertation Honours Law (6 units).

The award abbreviation Hons.LLB shall be used by candidates awarded the Honours degree of Bachelor of Laws.

5.4.2.5 A candidate for the Honours Degree who does not qualify for that degree may present LAW 3089 Honours Research and Writing (2 units) as an elective course of 2 units for the purposes of 5.4.1.1(b)(ii), if considered sufficient for the purpose by the Honours Board of Examiners; or a candidate for the Honours Degree who does not qualify for that degree may present LAW 3089 Honours Research and Writing (2 units) and LAW 3099 Dissertation Honours Law (6 units) as elective courses counting as 8 units of elective courses for the purposes of 5.4.1.1(b)(ii), if considered sufficient for the purpose by the Honours Board of Examiners.

5.4.2.6 Clause 3 of Academic Program Rule 5.4.1.1 (c) & (d) and Rule 3.9 also apply to the Honours degree.

5.5 Unacceptable combinations of courses

No candidate will be permitted to count towards an award any course, together with any other course, which, in the opinion of the Faculty concerned, contains a substantial amount of the same material; and no course or portion of a course may be counted twice towards an award

5.6 Graduation

Subject to Chapter 89 of the Statutes, candidates who have satisfied the requirements for any award of the University shall be admitted to that award at a graduation ceremony for the purpose.

6 Special circumstances

When in the opinion of the relevant Faculty special circumstances exist, the Council, on the recommendation of the Faculty in each case, may vary any of the provisions of the Academic Program Rules for any particular award.

Bachelor of Laws – Graduate Attributes

Knowledge

A Law graduate from the University of Adelaide Law School will have:

- A clear and detailed knowledge and understanding of the basic principles of the Australian legal system, including the separation of powers, the role of courts, the legislative process, and the role and control of the executive.
- Knowledge and understanding of the basic principles of the primary areas of Australian law as required to satisfy the academic standards for admission to practice law in an Australian jurisdiction, and knowledge and understanding of the development of law and legal principle within both those subject areas and other areas, such as to maintain appropriate familiarity with, and a capability to access the content of, legal principle in a given area.
- Knowledge and understanding of the principles and standards of ethical and professional conduct of a lawyer.

Intellectual and social capabilities

A Law graduate will have:

- The cognitive skills to analyse, evaluate and synthesise information from a wide variety of sources and experiences so as to identify and address as appropriate legal and related issues.
- An awareness and appreciation of the incompleteness of law and the continuous state of development of legal principle in response to social and technical change, and a capacity to respond to such change and assist such development as appropriate.
- Critical thinking and problem solving skills.
- Oral and written communication skills of a high order, including the use of appropriate modern communication technologies.
- Skills to work both independently and cooperatively, in a professional environment.
- The capacity and commitment to learn and maintain intellectual curiosity, and to engage in life-long personal and professional learning.
- Familiarity with and proficiency in legal research techniques, including in the appropriate use of modern research technologies.
- A capacity to work in a professional and ethical relationship with both clients and colleagues..
- A capacity to be informed, responsible and critically discriminating in his or her participation in the community.

Attitudes and values

A Law graduate will have:

- A commitment to the rule of law, ethical standards of personal and professional behaviour, and social justice through the operation of law.
- A commitment to the highest standards of ethical and professional behaviour.
- An understanding of social and cultural diversity, and sensitivity of the operation of the law and legal structures in that context.

Medical School

Contents

www.medicine.adelaide.edu.au

Bachelor of Health Sciences
B.Health Sc. 209

Bachelor of Medical Science (Honours)
B.Med.Sc.(Hons).....221

Bachelor of Medicine and Bachelor of Surgery
M.B.,B.S. 214

Bachelor of Psychology
B.Psych. 223

Bachelor of Psychology (Honours)
B.Psych.(Hons.).....227

Undergraduate awards in the Medical School

- Degree of Bachelor of Health Sciences
- Degrees of Bachelor of Medicine and Bachelor of Surgery
- Degree of Bachelor of Psychology
- Degree of Bachelor of Psychology (Honours)
- Honours degree of Bachelor of Health Sciences
- Honours degree of Bachelor of Medical Science

Notes on Delegated Authority

1 Council has delegated the power to approve minor changes to the Academic Program Rules to the Executive Deans of Faculties.

2 Council has delegated the power to specify syllabuses to the Head of each department or centre concerned, such syllabuses to be subject to approval by the Faculty or by the Executive Dean on behalf of the Faculty. The Head of department or centre may approve minor changes to any previously approved syllabus.

Bachelor of Health Sciences

Academic Program Rules

1 General

There shall be a degree and an Honours degree of Bachelor of Health Sciences. A candidate may obtain either degree or both.

2 Duration of program

The program of study for the Bachelor degree shall extend over three years of full-time study or its part-time equivalent.

3 Admission

The admission requirements for this program of study are those outlined in the Rules made by Council pursuant to Chapter IX of the University Statutes - Of Admission and Enrolment.

3.1 Status, exemption and credit transfer

3.1.1 Candidates are permitted to count towards the degree courses which have been passed in another degree program, up to a maximum value of 48 units, but will be required to present Level III courses to the value of 24 units which have not been presented for another degree, and in addition satisfy the requirements Rule 5.1.3.

3.1.2 A student who has withdrawn his or her candidature for the degrees of BDS or MBBS after completing at least three program years may be granted status in this degree for up to 72 units and be deemed to have satisfied the requirements of Rule 5.

3.2 Status granted in combined degree programs

3.2.1 Bachelor of Health Sciences/Bachelor of Laws

A candidate who gained entry to Law studies at the University of Adelaide prior to 2003 and who undertakes Law Studies concurrently with Health Sciences may present 8 units at level II and 12 units at level III of Law courses in lieu of electives for the Bachelor of Health Sciences. A candidate who gains entry to Law in 2003 or later may present 3 units of Law courses at level I, 8 units at level II and 12 units at level III in lieu of electives for the Bachelor of Health Sciences.

3.2.2 Bachelor of Health Sciences/ Bachelor of Social Sciences

The Bachelor of Health Sciences may be undertaken concurrently with the Bachelor of Social Sciences in a double degree program that is designed to be completed in 4 years of full-time study (96 units). Students are required to complete a major in both Social Sciences and Health Sciences. Students who complete the requirements for both degrees are awarded 2 degrees and 2 parchments.

3.2.3 **Academic program**

To qualify for the double degree of Bachelor of Social Sciences/Health Sciences, a student shall present passes in courses to the value of 96 units, which satisfy the following requirements:

Level I

(a)	ANAT SC 1102 Human Biology IA	3
	ANAT SC 1103 Human Biology IB	3
	PUB HLTH 1001 Public Health IA	3
	PUB HLTH 1002 Public Health IB	3
	GEOG 1004 Population, Globalisation and Social Justice	3
	SOCI 1001 Social Sciences in Australia	3

(b) Level I courses to the value of 6 units chosen from those areas listed in 5.1.1 as Social Sciences

Level II

(c)	SOCI 2002 Social Science Techniques	4
	PATHOL 2000 Biology of Disease II	4

(d) Level II courses to the value of 8 units chosen from those listed in 5.1.1 as Social Sciences, being the Level II component of a major sequence

(e) Level II courses to the value of 8 units chosen from those listed in 5.1.2 (b) for the Bachelor of Health Sciences that lead to a Level III major sequence in Health Sciences.

Level III and IV

24 units for each award separately as follows:

Bachelor of Social Sciences

(f) SOCI 3004 Social Research 6

(g) Level III courses to the value of 12 units chosen from those listed in 5.1.1 as Social Sciences, being the Level III component of a major sequence

(h) Level III Applied Social Science elective course to the value of 6 units.

Bachelor of Health Sciences

(i) Level III courses to the value of 12 units chosen from a single area of study listed in 5.1.3 (a) for the Bachelor of Health Sciences, being the Level III component of a major sequence

(j) Level III Health Sciences courses to the value of 12 units, or up to 12 units of Level III courses offered by the Faculty of Humanities and Social Sciences.

4 Assessment and examinations

4.1 A candidate shall not be eligible to attend for examination unless the prescribed work has been completed to the satisfaction of the teaching staff concerned. A candidate who is not eligible to attend for examination shall be deemed to have failed the examination.

4.2 In determining the final result in a course (or part of a course) the examiners may take into account a candidate's oral, written, practical and examination work, provided that the candidate has been given adequate notice at the commencement of the teaching of the course of the way in which work will be taken into account and of its relative importance in the final result.

4.3 There shall be four classifications of pass in each course for the Bachelor degree, as follows: Pass with High Distinction, Pass with Distinction, Pass with Credit, Pass. If the Pass classification be in two divisions, a pass in the higher division may be prescribed in the syllabuses as a prerequisite for admission to further studies in that course or other courses.

4.4 A candidate who fails a course or who obtains a lower division pass and who desires to take that course again shall, unless exempted wholly or partially therefrom by the head of the department concerned, again complete the required work in that course to the satisfaction of the teaching staff concerned.

4.5 A candidate who has twice failed the examination in any course for the Bachelor degree may not enrol for that course again or for any other course which in the opinion of the Faculty contains a substantial amount of the same material, except by permission of the Faculty and then only under such conditions as Faculty may prescribe.

4.6 There shall be three classifications of Pass in the final assessment of any course for the Honours degree as follows: First Class, Second Class, Third Class. The Second Class classification shall be divided into two divisions as follows: Division A and Division B.

5 Qualification requirements

5.1 Academic program for the Bachelor degree

To qualify for the Bachelor degree a candidate shall present passes in courses to the value of 72 units, which satisfy the following:

5.1.1 Level I

(a) ANAT SC 1102 Human Biology IA 3
ANAT SC 1103 Human Biology IB 3
PUB HLTH 1001 Public Health IA 3
PUB HLTH 1002 Public Health IB 3

(b) Level I courses to the value of 12 units chosen from the Health Sciences courses listed below, or from Level I courses offered by the Faculty of Humanities and Social Sciences, School of Economics, School of Commerce, School of Mathematical and Computer Sciences or Faculty of Sciences that are available to them.
PSYCHIAT 1001 Person, Culture Medicine IA 3
PSYCHOL 1000 Psychology IA 3
PSYCHOL 1001 Psychology IB 3

5.1.2 Level II

(a) PATHOL 2000 Biology of Disease II 4

(b) Level II Health Sciences courses to the value of 8 units chosen from the following:
ANAT SC 2102 Cells, Tissues & Development II 4
ANAT SC 2103 Functional Human Anatomy II 4
ANAT SC 2106 Ethics, Science & Society II 4
PATHOL 2000 Biology of Disease II 4
PHARM 2002 Pharmacology II 4
PHARM 2002 Toxicology II 4
PSYCHIAT 2002 Emotion, Culture & Medicine IIA 4
PSYCHOL 2002 Psychology IIA 4
PSYCHOL 2003 Psychology IIB 4
PSYCHOL 2001 Psychological Research Methodology II 4
PUB HLTH 2000 Public Health Inquiry II 4
PUB HLTH 2001 Public Health Sciences II 4

(c) Level II courses to the value of 12 units from the Health Sciences courses listed in 5.1.2(b) above, or from Level II courses offered by the Faculty of

Humanities and Sciences, School of Economics, School of Commerce, School of Mathematical and Computer Sciences or Faculty of Sciences that are available to them+.

5.1.3 Level III

(a) Level III courses to the value of not less than 24 units, of which 12 units must include Health Science courses listed below:

Health Sciences

Anatomical Sciences

ANAT SC 3101 Biological Anthropology	3
ANAT SC 3102 Comparative Reproductive Biology of Mammals	3
ANAT SC 3103 Integrative and Comparative Neuroanatomy	3
ANAT SC 3104 Structural Cell Biology	3
ANAT SC 3106 Ethics, Science & Society III	6

Clinical and Experimental Pharmacology

PHARM 3004 Concepts in Pharmacology A III	3
PHARM 3005 Research Methods in Pharmacology A III	3
PHARM 3006 Fundamentals of Drug Discovery III	3
PHARM 3007 Concepts in Pharmacology B III	3
PHARM 3008 Research Methods in Pharmacology B III	3
PHARM 3009 Fundamentals of Drug Development III	3

Pathology

PATHOL 3103 General Pathology	6
PATHOL 3104 Pathology of Organ Systems	6

Psychology

PSYCHOL 3000 Psychological Research Methodology III	4
PSYCHOL 3001 Environmental Psychology III	2
PSYCHOL 3002 Mind, Brain and Evolution III	2
PSYCHOL 3003 Developmental Psychology III	2
PSYCHOL 3005 Perception and Cognition III	2
PSYCHOL 3006 Psychology: Physiology and Behaviour III	2
PSYCHOL 3009 Metapsychology III	2
PSYCHOL 3010 Social Psychology III	2
PSYCHOL 3013 Learning and Behaviour III	2
PSYCHOL 3014 Individual Differences III	2
PSYCHOL 3015 Human Relations III	2

Public Health

PUB HLTH 3101HO Aboriginal Health Policy IIIHS	6
PUB HLTH 3104HO Epidemiology of Infectious Disease IIIHS	6
PUB HLTH 3106HO Health Promotion IIIHS	6
PUB HLTH 3108HO Environmental and Occupational Health IIIHS	6
PUB HLTH 3109HO Introduction to Epidemiology and Biostatistics IIIHS	6
PUB HLTH 3117HO Rural Public Health IIIHS	6
PUB HLTH 3119HO Public Health Internship III	6
PUB HLTH 3120HO Public Health Theory and Practice III	6
PUB HLTH 3121HO Qualitative Research in Practice III	6
PUB HLTH 71051HO Diseases of Occupation IIIHS	6

Other Health Sciences

MICRO 3003 Medical Microbiology and Immunology III	6
OB&GYNAE 3000 Human Reproductive Health III	6

(b) The completion of a major in an area of study offered by either the Faculty of Health Science or the School of Molecular and Biomedical Sciences. A major is defined as the completion, at Pass level or above, of at least 9 units of courses from within a single discipline.

(c) Candidates are able to present a maximum of 12 units of courses at Level III offered by the Faculty of Humanities and Sciences, School of Commerce, School of Economics, School of Law*, School of Mathematical and Computer Sciences, or the Faculty of Sciences+.

* Candidates for the Bachelor of Health Sciences may only undertake Law courses if they are also candidates for the Bachelor of Laws.

+ A listing or acceptable courses is available from: www.health.adelaide.edu.au/enrol/bhsguide.pdf

5.1.4 (a) A candidate may substitute appropriate courses chosen from Level II to fulfil the non-core (ie. elective) course requirements at Level I, or from Level III to fulfil the non-core course requirements at Level I or II

(b) No candidate will be permitted to count towards an award any course, together with any other course, which, in the opinion of the Faculty concerned, contains a substantial amount of the same material; and no course or portion of a course may be counted twice towards an award.

5.2 Cross-institutional study

With prior approval of the Faculty, students may study courses offered at Bachelor degree level or higher by other universities as cross-institutional students, subject to the following provisions:

5.2.1 Students must complete all core courses as specified in 5.1 at the University of Adelaide.

5.2.2 The following limits shall apply:

Level I

12 units of cross-institutional studies in any discipline

Level II or Level III

12 units of cross-institutional studies in any discipline

5.2.3 Students undertaking cross-institutional studies must abide by any rules and regulations the host institution shall prescribe.

5.2.4 On completion of any cross-institutional course, the student shall be responsible for ensuring that an official transcript or result notice is forwarded to the Faculty.

5.3 Academic program for the Honours degree

To be eligible to be admitted to an Honours degree program, a candidate shall complete the requirements for a Bachelor degree or equivalent to a standard which is acceptable to the Faculty for the purpose of admission to the Honours degree.

A candidate who satisfies the requirements for Honours shall be awarded the Honours degree, but the Faculty shall decide within which of the following classes and divisions the degree shall be awarded:

1	First Class
2A	Second Class div A
2B	Second Class div B
3	Third Class
NAH	Not awarded

5.3.1 A candidate may, subject to approval by the Head of the department concerned, proceed to the Honours degree in one of the following courses:

ANAES&IC 4000AHO/BHO Honours Anaesthesia & Intensive Care

ANAT SC 4000A/B Honours Anatomical Sciences

BIOCHEM 4000A/B Honours Biochemistry

CLIN NUR 4000AHO/BHO Honours Clinical Nursing

DENT 4100AHO/BHO Honours Dentistry

GENETICS 4005A/B Honours Genetics

MEDICINE 4000AHO/BHO Honours Medicine

MICRO 4000A/B Honours Microbiology and Immunology

OB&GYNAE 4000AHO/BHO Honours Obstetrics and Gynaecology

ORT&TRAU 4000AHO/BHO Honours Orthopaedics and Trauma

PAEDIAT 4000AHO/BHO Honours Paediatrics

PATHOL 4000A/B Honours Pathology

PHARM 4000A/B Honours Pharmacology

PHYSIOL 4000A/B Honours Physiology

PSYCHIAT 4000AHO/BHO Honours Psychiatry

PSYCHOL 4000A/B Honours Psychology

PUB HLTH 4000AHO/BHO Honours Public Health

SURGERY 4000AHO/BHO Honours Surgery

5.3.1.1 The program comprises three equally important aspects undertaken concurrently:

(a) Program of reading in selected fields, and the submission of a series of essays associated therewith

(b) Experimental or scholarly work covering a wide range of techniques

(c) The undertaking of a research project which will be assigned early in the program and on which a thesis must be submitted.

5.3.1.2 The examination for the degree will consist of a written paper or papers, the essays submitted during the year, the thesis on the research project, an oral examination, and a practical examination if required by the examiners.

5.3.1.3 A candidate may, subject to the approval of the Faculty in each case, proceed to the Honours degree in a course taught in a department in another faculty. Candidates must consult the Head of the department concerned and apply, in writing, to the Faculty before 30 November in the preceding year for admission to the Honours program.

5.4 Graduation

Subject to Chapter 89 of the Statutes, candidates who have satisfied the requirements for any award of the University shall be admitted to that award at a graduation ceremony for the purpose.

6 Special circumstances

When in the opinion of the relevant Faculty special circumstances exist, the Council, on the recommendation of the Faculty in each case, may vary any of the provisions of the Academic Program Rules for any particular award.

Bachelor of Health Sciences – Graduate Attributes

The aim of this program is to produce graduates who are committed to advancing knowledge of health and disease and improving the health of the public. Depending on the choice of stream within the program, graduates will have the capacity to work in a variety of health settings, including government, academia, industry, business and the community, in a range of areas such as laboratory or community-based research, provision of health services, surveillance and evaluation, health promotion and policy. Graduates will possess a firm foundation for further study and be equipped for a lifetime of learning.

Knowledge

Detailed knowledge will depend on the choice of subjects undertaken, but every graduate will:

- have a population as well as an individual view of health.
- understand the biology of the human species, the structure and function of the body and the relationship of the environment to the health of the human being.
- know the biological bases of disease at the tissue, organ and system level and relate this knowledge to the diagnosis and treatment of common diseases.
- possess a basic knowledge of the core disciplines within public health, in particular, epidemiology and social and political analysis, and understand how these disciplines can contribute to protecting the health of the public.
- be aware of contemporary issues in health, including the leading causes of morbidity and mortality and potential for prevention.

Intellectual and social capabilities

- An ability to read and interpret material relevant to health.
- An ability to communicate in writing and orally with a range of audiences concerning health matters.
- An ability to critically appraise and synthesise a body of work.
- An ability to employ methods to collect, process and analyse materials and data relevant to research on health and disease.
- An ability to articulate the practical implications of theory and research in health.
- An ability to draw on and apply knowledge gained from historical and comparative perspectives.
- An ability to work both independently and as an effective team member.

Attitudes and values

- A sensitivity to the cultural and ethical issues that may impact on the way that knowledge acquired within health is interpreted and used.
- A respect for people whatever their age, gender, abilities, social circumstances or cultural background.
- Commitment to addressing social inequalities which underpin differences in health experiences.
- An appreciation of the value of an inquiring mind and of the questioning of the status quo in science and society.

Academic Program Rules

1 General

There shall be a degree of Bachelor of Medicine and Bachelor of Surgery.

2 Duration of program

2.1 The program of study for the degrees of Bachelor of Medicine and Bachelor of Surgery, unless otherwise approved by the Council on the recommendation of the Faculty, shall extend over six years of full-time study.

2.2 A candidate may interrupt the program:

(a) for the purpose of proceeding to the Honours degree of Bachelor of Medical Science *or*

(b) for such period and on such conditions as may in each case be determined by the Faculty.

2.3 Students wishing to interrupt their studies in accordance with 2.2(b) above must obtain beforehand the approval of the Dean on behalf of the Faculty for leave of absence for a defined period.

2.4 A student who leaves the program without approval or who extends a leave of absence beyond the time period approved under 2.2(b) above shall be deemed to have withdrawn his or her candidature for the degrees but may reapply for admission to the program in accordance with the procedures in operation at the time.

2.5 Students who have interrupted their studies in the prescribed courses may be required to resume at such a point in the program and/or to undertake such additional or special program of study as the Executive Dean of the Faculty deems appropriate.

3 Enrolment

3.1 Prescribed communicable infections Policy

The University promotes a pro-active public health approach to prescribed communicable infections (PCI) such as HIV/AIDS, Hepatitis B and Hepatitis C, and seeks to minimise the impact of these infections on students' academic progress. It offers understanding and practical support to students with such infections, and aims to provide a work and study environment free from discrimination, challenging views that result in discriminatory attitudes toward people with PCIs.

The University also has a legal and ethical obligation to take all reasonable measures to prevent the transmission of prescribed communicable infections among students, staff members and visitors, and recognises that some students with such infections will not be permitted to complete the Bachelor of Medicine, Bachelor of Surgery, the Bachelor of Dental Surgery or other clinical programs offered by the Faculty of Health Sciences.

All prospective medical and dental school students are strongly advised to consult the University's *Students With Prescribed Communicable Infections Policy* - available through the University's website at www.adelaide.edu.au/student/current/policies.html - which makes reference to the relevant legislation, elaborates on the reasons for the adoption of this policy, and outlines procedures for implementing the policy.

4 Assessment and examinations

4.1 A candidate shall not present for the examinations unless the candidate has completed to the satisfaction of the professors and lecturers concerned, prior to the beginning of the examination, the programs of study and practice prescribed for it.

4.2 The examiners in any course may take into consideration written or practical work required of candidates during the program of study and practice and the results of other examinations in the courses.

4.3 A candidate who fails to pass in an examination shall, before presenting for the examination again, attend again such part or parts of the program of study and practice leading to that examination as the Faculty may direct.

4.4 (a) Candidates who pass and satisfy the assessment requirements in the whole of an examination prescribed in the Academic Program Rules shall be awarded a non-graded pass

(b) For the elective course/s undertaken, candidates who pass will be awarded a graded or ungraded result in accordance with the grading scheme approved for the courses/s concerned.

4.5 (a) The Board of Examiners may grant a candidate who has been prevented by illness or other sufficient cause from sitting for the whole or part of an examination permission to sit for a special or supplementary examination, the extent of such special or supplementary examination to be determined by the Board in each case.

(b) On passing in a special or supplementary examination granted under this Academic Program Rule a candidate shall be deemed to have completed the whole of the examination; but if the candidate fails in such special or supplementary examination the candidate shall take again, and pass in, the whole of the examination before proceeding with the programs of study and practice leading to the next examination.

(c) A candidate granted permission to sit for a supplementary or special examination may enter provisionally upon the programs of study and practice leading to the next examination pending publication of the result of the supplementary examination.

4.6 Attendance requirements

To qualify for the degrees a candidate must attend regularly such tutorials and seminar work, satisfactorily perform such laboratory, practical, clinical and written work, and pass such examinations as the Faculty may from time to time prescribe.

5 Qualification requirements

5.1 Program of study and examinations

5.1.1 To qualify for the degrees of Bachelor of Medicine and Bachelor of Surgery, a candidate shall complete the requirements of the six Examinations by:

(a) regularly attending lectures and PBL sessions

(b) satisfactorily participating in tutorial, practical and project work, clinical programs and attachments *and*

(c) satisfactorily completing the range of assessment tasks, including examinations, that are prescribed in the Syllabus for each of the courses of the Examinations as set out in 5.2.

Students must also undertake 18 units of elective courses over Years 1-3 to broaden their education. The Medical School will provide guidelines on approved electives, on an annual basis.

In addition, a student is required to undertake a period of elective study approved by the School of Medicine before commencing the study and practice for the Final Year Program.

5.1.2 A student entering the First Year of the program shall be required to undertake an English Language Proficiency assessment. If deficiencies in the written and/or oral use of English are identified through the initial assessment or through the assessment tasks prescribed for the courses of the First Year Examination, the School may require the student to participate in a Language Development Program in parallel with the courses of study for the degree.

5.1.3 A candidate shall normally pass the whole of one Examination before entering into the program of study and practice leading to the next examination. A candidate who fails an Examination will normally be required to repeat the study and clinical practice and the assessment requirements of all courses set out for the Examinations in 5.2 below.

5.2 Academic program

5.2.1 The following are the courses of study for the six years of the degrees of Bachelor of Medicine and Bachelor of Surgery:

Medic St 1000 A/B First Year Examination

Core courses

MEDIC ST 1101A/B Scientific Basis of Medicine I	6
MEDIC ST 1102A/B Clinical Skills I	6
MEDIC ST 1103A/B Medical Professional and Personal Development I	6

Electives

Students must attempt and pass at least six units of approved elective course/s	6

Medic St 2000 A/B Second Year Examination

Core courses

MEDIC ST 2101A/B Scientific Basis of Medicine II	6
MEDIC ST 2102AHO/BHO Clinical Skills II	6
MEDIC ST 2103A/B Medical Professional and Personal Development II	6

Electives

Students must attempt and pass at least six units of approved elective course/s	6

MEDIC ST 3000 A/B Third Year Examination

Core courses

MEDIC ST 3102A/B Clinical Skills III	6
MEDIC ST 3103A/B Medical Professional and Personal Development III	6
MEDIC ST 3104A/B Scientific Basis of Medicine III	6

Electives

Students must attempt and pass approved elective courses to an aggregate, over Years 1, 2 and 3, of 18 units

Medic St 4000 A/B Fourth Year Examination

MEDIC ST 4005AHO/BHO Medical Home Unit	5
MEDIC ST 4006AHO/BHO Surgical Home Unit	5
MEDIC ST 4007AHO/BHO Psychological Health	3
MEDIC ST 4008AHO/BHO Acute and Chronic Care 1	3
MEDIC ST 4009AHO/BHO Medical and Scientific Attachment 1	2

MEDIC ST 4010AHO/BHO Medical and Scientific Attachment 2	2
MEDIC ST 4011 AHO/BHO Research Proposal	2
MEDIC ST 4012 AHO/BHO Common Program	2
MEDIC ST 5000 A/B Fifth Year Examination	
MEDIC ST 5005AHO/BHO Medical and Scientific Attachment 3	2
MEDIC ST 5006AHO/BHO Medical and Scientific Attachment 4	2
MEDIC ST 5007AHO/BHO Medical and Scientific Attachment 5	2
MEDIC ST 5008AHO/BHO Medical and Scientific Attachment 6	2
MEDIC ST 5009AHO/BHO Acute and Chronic Care 2	4
MEDIC ST 5010AHO/BHO Paediatrics and Child Health	5
MEDIC ST 5011AHO/BHO Human Reproductive Health	5
MEDIC ST 5012AHO/BHO Common Program	2
Medic St 5013AHO/BHO External Elective	
Medic St 6000 A/B Final (Sixth Year) Assessment	
MEDIC ST 6001AHO/BHO Clinical Elective and Specials Week VI	3
MEDIC ST 6002AHO/BHO Medicine Internship and Common Program VI	3
MEDIC ST 6003AHO/BHO Surgery Internship VI	3
MEDIC ST 6004AHO/BHO Emergency Medicine Internship VI	3
MEDIC ST 6005AHO/BHO Primary Care SCAP VI	3
MEDIC ST 6006AHO/BHO Psychological Health SCAP VI	3
MEDIC ST 6007AHO/BHO Medicine SCAP VI	3
MEDIC ST 6008AHO/BHO Surgery SCAP VI	3

5.3 Honours degree of Bachelor of Medical Science

A candidate may intermit the course for the degrees of Bachelor of Medicine and Bachelor of Surgery for the purpose of proceeding to the Honours degree of Bachelor of Medical Science; or for such period and on such conditions as may in each case be determined by the School.

5.4 Unacceptable combinations of courses

No candidate will be permitted to count towards an award any course, together with any other course, which, in the opinion of the School concerned, contains a substantial amount of the same material; and no course or portion of a course may be counted twice towards an award.

5.5 Graduation

Subject to Chapter 89 of the Statutes, candidates who have satisfied the requirements for any award of the University shall be admitted to that award at a graduation ceremony for the purpose.

6 Special circumstances

When in the opinion of the relevant Faculty special circumstances exist, the Council, on the recommendation of the School in each case, may vary any of the provisions of the Academic Program Rules for any particular award.

Rules for the admission of medical students to the practice of the teaching hospitals, health centres and the Institute of Medical and Veterinary Science:

1 Medical students admitted to the practice of a Teaching Hospital or Health Centre shall be under the control of the Medical Director in relation to matters of common discipline; the University will otherwise be responsible for matters related to education.

2 No student shall publish the report of any case without the permission of the Hospital Board or Health Centre Management Committee and the Senior Medical Officer under whose care the patient is or has been.

3 Except in the performance of his clinical duties, no student may disclose any information whatsoever concerning a patient without the permission of both the patient and the Senior Medical Officer in charge.

4 No student may communicate directly or indirectly to the Press, radio or television any matter concerning the clinical practice of the Institution to which he or she is attached.

5 No student may introduce visitors into any Hospital or Health Centre to the practice of which he or she has been admitted, without the permission of the Medical Director or his deputy.

6 Students shall pay such fees as are laid down from time to time by the University in conjunction with the Teaching Hospitals or Health Centres. Fees are payable directly to the University; no student will be admitted to a Teaching Hospital or Health Centre until such fees are paid.

7 Students shall discharge the duties assigned to them, and pay for or replace any article damaged or lost or destroyed by them through negligence or misconduct.

8 During any period of residence the student will comply with the directions of the Medical Director of the Hospital or Health Centre in respect of discipline and general conduct.

9 Subject to rule 10 any student infringing any of these rules or the rules of the Hospital or Health Centre, or otherwise misconducting himself/herself may be suspended or dismissed by the Board of the Hospital or Health Centre from the practice of the Hospital or Health Centre. If he/she is so dismissed he/she shall forfeit all payments which may have been made and all rights accruing therefrom.

10 In all instances where a student has been either suspended or dismissed from the practice of the Hospital or Health Centre his/her case shall be investigated by an Investigation Committee on which there shall be a representative appointed by the Hospital Board, a Senior Consultant Clinical Teacher nominated by

the Head (or his/her deputy) of the appropriate Staff Committee of the Hospital or Health Centre concerned, a representative appointed by the University, and the Dean of the School of Medicine (or his/her deputy). The committee should also normally include a representative of the Adelaide Medical Students' Society (eg. a student member of Faculty of Medicine). The Investigating Committee shall make its recommendation to the Board of the Hospital or Health Centre Management Committee concerned and to the Council of the University for confirmation or otherwise.

These rules apply equally to medical students who use the facilities of the IMVS where the Director of the Institute has the authority given in these Rules to the Medical Director of a Teaching Hospital, and where the Council of the Institute replaces the Board of the hospital.

Bachelor of Medicine & Bachelor of Surgery – Graduate Attributes

Our undergraduate program at the University of Adelaide Medical School seeks to produce an undifferentiated doctor with the abilities and skills appropriate for both the seamless transition to post-graduate training, and to continue into advanced training programs for the full spectrum of career paths.

The University of Adelaide Medical graduates will be distinguished by:

- Being thoroughly versed in the skills and application of adult learning.
- Deriving enjoyment for the process of learning and the pursuit of knowledge and understanding (where knowledge is defined as information that can be used effectively in familiar and unknown situations).
- Having a superior ability to integrate knowledge across disciplines.
- The ability to apply basic scientific knowledge to facilitate understanding and management in clinical practice.
- A highly developed sense of their 'duty of care' for their patients.

At the end of the course of undergraduate medical education the student will have acquired through the Scientific Basis of Medicine, Medical Personal and Professional Development, and Clinical Practice streams the attitudes, knowledge and understanding, and skills essential to the practice of medicine, including:

Medical Personal and Development

- Respect for patients and colleagues that encompasses, without prejudice, diversity of background and opportunity, language, culture and way of life.
- Recognition of patients' rights in all respects, and particularly in regard to privacy, confidentiality and informed consent.
- Ability to cope with uncertainty and adapt to change.
- Awareness of the moral and ethical responsibilities involved in individual patient care and in the provision of care to populations of patients.
- Development of the capacity of self-audit and for participation in the peer-review process.
- Capacity to recognise and accept limitations in one's knowledge, understanding and clinical skills.
- Ability to work effectively as a member of a team.
- Willingness to use his or her professional capabilities to contribute to community welfare as well as to individual patient welfare by the practice of preventive medicine and the encouragement of health promotion.
- Acceptance and practice of the theories and principles that govern ethical decision making, and of the major ethical dilemmas in medicine, particularly those that arise at the beginning and end of life and those that arise from the rapid expansion of the knowledge of genetics.
- Ability to retrieve (from electronic databases and other resources), manage, and utilise biomedical information for solving problems and making decisions that are relevant to the care of individuals and populations.
- Acceptance of the responsibility to contribute as far as possible to the advancement of medical knowledge and research in order to benefit medical practice and further improve the quality of patient care.
- Willingness to contribute to teaching and the professional development of others.
- Ability to communicate effectively in writing with patients, colleagues and others in carrying out their responsibilities.

Scientific Basis of Medicine

Knowledge and understanding of:

- The normal structure and function of the body (as an intact organism) and of each of its major organ systems.
- The molecular, biochemical, and cellular mechanisms that are important in maintaining the body's homeostasis.
- The various causes (genetic, developmental, metabolic, toxic, microbiologic, autoimmune, neoplastic, degenerative, and traumatic) of maladies and the ways in which they operate on the body (pathogenesis).
- The altered structure and function (pathology and pathophysiology) of the body and its major organ systems that are seen in various diseases and conditions.
- Problems that are presented to doctors and the range of solutions that have been developed for their recognition, investigation, prevention and treatment.
- How disease presents in patients of all ages, how patients react to illness or the belief that they are ill, and how illness behaviour varies between social and cultural groups.
- The environmental, social and psychological determinants of disease, the principles of disease surveillance and the means by which diseases may spread, and the analysis of the burden of disease within the community.
- The principles of disease prevention and health promotion.
- Various approaches to the organisation, financing, and delivery of health care.
- Understanding of the power of the scientific method in establishing the causation of disease and efficacy of traditional and non-traditional therapies.
- Explaining mechanisms by linking basic sciences to symptoms and signs.
- Integrating knowledge from different areas and applying it to patient management.
- Understanding of the physical and psychological influences operating throughout the human life cycle, including development, reproduction and senescence.
- Demonstrating understanding of the factors that influence the cost-effective practice of medicine including the role of the history and examination and of appropriate investigation and management.

Clinical Practice

- Honesty and integrity in all interactions with patients' families, colleagues, and others with whom physicians must interact in their professional lives.
- Understanding the importance of effective communication to the practice of "good" medicine and the avoidance of litigation.
- Ability to effectively and empathetically communicate with both patients and their relatives and with other professionals, both medical and non-medical.
- Knowledge and understanding of the principles of therapy, including
  - (i) the management of acute illness,
  - (ii) the actions of drugs, their prescription and their administration,
  - (iii) the care of the chronically ill and the disabled,
  - (iv) rehabilitation, institutional and community care,
  - (v) the amelioration of suffering and the relief of pain,
  - (vi) the care of the dying.
- Ability to obtain an accurate medical history that covers all essential aspects of the history, including issues related to age, gender, and socio-economic status.

- Ability to perform both complete and an organ system specific examination, including a mental status examination.
- Ability to perform routine technical procedures.
- Ability to interpret the results of commonly used, including effective and most cost efficient, diagnostic procedures.
- Application of the knowledge and understanding of the most frequent clinical, laboratory, roentgenologic, and pathologic manifestations of common maladies.
- Ability to reason deductively in solving clinical problems.
- Ability to construct appropriate management strategies (both diagnostic and therapeutic) for patients with common conditions, both acute and chronic, including medical, psychiatric, and surgical conditions, and those requiring short- and long-term rehabilitation.
- Ability to recognise patients with immediately life threatening cardiac, pulmonary or neurological conditions regardless of etiology, and to institute appropriate initial therapy.
- Ability to recognise and outline an initial course of management for patients with serious conditions requiring critical care.

Bachelor of Medical Science (Honours)

Academic Program Rules

1 General

There shall be an Honours degree of Bachelor of Medical Science.

2 Duration of program and qualification requirements

To qualify for the degree a candidate shall undertake a program of advanced study extending over one academic year, and shall satisfy the examiners in one of the courses prescribed in the Academic Program Rules.

3 Admission requirements

3.1 Before admission to a program of study for the degree a candidate shall have:

(a) passed the Third Year Examination for the degrees of Bachelor of Medicine and Bachelor of Surgery;

(b) been accepted by the head of the department concerned as a suitable candidate for advanced work in the course he/she wishes to pursue *and*

(c) completed such prerequisite work as the head of the department concerned may prescribe.

3.2 On the recommendation of the Faculty of Health Sciences, the Council may accept as a candidate for the degree a person who in a medical program of another institution has passed examinations regarded as equivalent to that specified in 3.1(a).

4 Assessment and examinations

4.1 The examination for the degree will consist of a written paper or papers, the essays submitted during the year, the thesis on the research project, an oral examination, and a practical examination if required by the examiners.

4.2 A candidate who satisfies the requirements for Honours shall be awarded the Honours degree, but the Faculty shall decide within which of the following classes and divisions the degree shall be awarded:

1	First Class
2A	Second Class div A
2B	Second Class div B
3	Third Class
NAH	Not awarded.

4.3 A candidate shall not be eligible to present himself/herself for examination unless he/she has regularly attended the prescribed lectures and has done written and laboratory or other practical work, where required, to the satisfaction of the professors and lecturers concerned.

5 Qualification requirements

5.1 Academic program

A program of study for the degree may be undertaken in one of the following:

ANAES&IC 4000AHO/BHO Honours Anaesthesia & Intensive Care

ANAT SC 4000A/B Honours Anatomical Sciences

BIOCHEM 4000A/B Honours Biochemistry

GEN PRAC 4000AHO/BHO Honours General Practice

MEDICINE 4000AHO/BHO Honours Medicine

MICRO 4000A/B Honours Microbiology and Immunology

OB&GYNAE 4000AHO/BHO Honours Obstetrics and Gynaecology

ORT&TRAU 4000AHO/BHO Honours Orthopaedics and Trauma

PAEDIAT 4000AHO/BHO Honours Paediatrics

PATHOL 4000A/B Honours Pathology

PHARM 4000A/B Honours Pharmacology

PHYSIOL 4000A/B Honours Physiology

PSYCHIAT 4000AHO/BHO Honours Psychiatry

PSYCHOL 4000A/B Honours Psychology

PUB HLTH 4000AHO/BHO Honours Public Health

SURGERY 4000AHO/BHO Honours Surgery

5.2 The program comprises three equally important aspects undertaken concurrently:

(a) Program of Reading in selected fields, and the submission of a series of essays associated therewith.

(b) Experimental work covering a wide range of techniques.

(c) The undertaking of a research project which will be assigned early in the program and on which a thesis must be submitted.

5.3 Graduation

Subject to Chapter 89 of the Statutes, candidates who have satisfied the requirements for any award of the University shall be admitted to that award at a graduation ceremony for the purpose.

6 Special circumstances

When in the opinion of the relevant Faculty special circumstances exist, the Council, on the recommendation of the Faculty in each case, may vary any of the provisions of the Academic Program Rules for any particular award.

Bachelor of Psychology

Note: This program is taught only in Singapore

Academic Program Rules

1 General

There shall be a degree of Bachelor of Psychology.

2 Duration of program

The program of study shall extend over three years of full-time study or part-time equivalent.

3 Admission

3.1 Status, exemption and credit transfer

3.1.1 In determining a candidate's eligibility for the award of the degree, the Department may disallow any course passed more than 10 years previously. Credit for other courses may be allowed at the discretion of the Head of the Department of Psychology.

3.1.2 Candidates may be permitted to count towards the degree courses which have been passed in another degree program, up to a maximum value of 24 units, but will be required to present Level III courses to the value of 24 units which have not been presented for another degree, and in addition satisfy the requirements of Rule 6.3.

4 Enrolment

Each student's program of study shall be approved by the Executive Dean of Faculty (or nominee) at enrolment each year.

5 Assessment and Examinations

5.1 A candidate shall not be eligible to attend for examination unless the prescribed work has been completed to the satisfaction of the teaching staff concerned. A candidate who is not eligible to attend for examination shall be deemed to have failed the examination.

5.2 In determining the final result in a course (or part of a course) the examiners may take into account the candidate's oral, written, practical and examination work, provided that the candidate has been given adequate notice at the commencement of the teaching of the course of the way in which the work will be taken into account and of its relative importance to the final result.

6 Qualification requirements

6.1 To qualify for the degree a candidate shall, subject to the conditions specified below, pass courses to the value of at least 72 units, which must include the following:

(a) Level 1 courses to the value of 24 units, which must include PSYCHOL 1000 Psychology IA (3 units) and PSYCHOL 1001 Psychology IB (3 units)

(b) Level 2 courses to the value of 24 units, which must include PSYCHOL 2002 Psychology IIA (4 units), PSYCHOL 2003 Psychology IIB (4 units) and PSYCHOL 2001 Psychological Research Methodology II (4 units)

(c) Level 3 courses to the value of 24 units, which must include PSYCHOL 3000 Psychological Research Methodology III (4 units) and other Level 3 Psychology courses to the value of at least 14 units.

6.1.1 With the permission of the Executive Dean of the Faculty of Health Sciences and the Executive Dean of the other Faculty, in lieu of up to 14 units described under 6.3 below, a candidate may take courses from the Academic Program Rules of any Faculty which are considered appropriate coursework for the Bachelor of Psychology degree.

6.1.2 No candidate will be permitted to count for the degree any course together with any other course which, in the opinion of the Faculty, contains a substantial amount of the same material; and no course may be counted twice towards the degree. No candidate may present the same section of a course in more than one course for the degree.

6.2 A candidate who has completed all the requirements of the Bachelor of Psychology degree to a standard acceptable to the Faculty may apply for admission to the Bachelor of Psychology (Honours) degree. In these circumstances the candidate may obtain either degree or both.

6.3 Academic Program

Level I

PSYCHOL 1000 Psychology IA

PSYCHOL 1001 Psychology IB

plus courses to the value of at least 18 units selected from the following:

Architecture

Level I courses listed under Academic Program Rule 5.1 of the degree of Bachelor of Design Studies.

Commerce

Level I courses listed under Academic Program Rule 4.8 of the degree of Bachelor of Commerce.

Economics

Level I courses listed under Academic Program Rule 4.7 of the degree of Bachelor of Economics.

Health Sciences

Level I courses listed under Academic Program Rule 5.1.1 of the degree of Bachelor of Health Sciences.

Humanities and Social Sciences

Level I courses listed under Specific Academic Program Rule 6.12.1 of the degree of Bachelor of Arts.

Mathematical and Computer Sciences

Level I courses listed under Academic Program Rule 4.4 of the degree of Bachelor of Computer Science and Academic Program Rule 4.2 of the Bachelor of Mathematical and Computer Sciences.

Science

Level I Courses listed under Academic Program Rule 5.9.1 of the degree of Bachelor of Science.

Level II

PSYCHOL 2001 Psychological Research Methodology II

PSYCHOL 2002 Psychology IIA

PSYCHOL 2003 Psychology IIB

plus other Level 2 courses from the list below to the value of at least 12 units:

Architecture

Level II courses listed under Academic Program Rule 5.1 of the degree of Bachelor of Design Studies.

Commerce

Level II courses listed under Academic Program Rule 4.8 of the degree of Bachelor of Commerce.

Economics

Level II courses listed under Academic Program Rule 4.7 of the degree of Bachelor of Economics.

Health Sciences

Level II courses listed under Academic Program Rule 5.1.2 of the degree of Bachelor of Health Sciences.

Humanities and Social Sciences

Level II courses listed under Academic Program Rule 6.12.2 of the degree of Bachelor of Arts.

Mathematical and Computer Sciences

Level II courses listed under Academic Program Rule 4.4 of the degree of Bachelor of Computer Science and Specific Academic Program Rule 4.2 of the Bachelor of Mathematical and Computer Sciences.

Science

Level II Courses listed under Academic Program Rule 5.9.3 of the degree of Bachelor of Science.

Level III

PSYCHOL 3000 Psychological Research Methodology III

plus other Psychology courses from the list shown below to the value of at least 14 units:

PSYCHOL 3001 Environmental Psychology III	2
PSYCHOL 3002 Mind, Brain and Evolution III	2
PSYCHOL 3003 Developmental Psychology III	2
PSYCHOL 3005 Perception and Cognition III	2
PSYCHOL 3006 Psychology: Physiology & Behaviour III	2
PSYCHOL 3009 Metapsychology III	2
PSYCHOL 3010 Social Psychology III	2
PSYCHOL 3013 Learning and Behaviour III	2
PSYCHOL 3014 Individual Differences III	2
PSYCHOL 3015 Human Relations III	2

plus other Level III courses from the following list:

Architecture

Level III courses listed under Academic Program Rule 5.1 of the degree of Bachelor of Design Studies.

Commerce

Level III courses listed under Academic Program Rule 4.8 of the degree of Bachelor of Commerce.

Economics

Level III courses listed under Academic Program Rule 4.7 of the degree of Bachelor of Economics.

Health Sciences

Level III courses listed under Academic Program Rule 5.1.3 of the degree of Bachelor of Health Sciences.

Humanities and Social Sciences

Level III courses listed under Academic Program Rule 6.12.3 of the degree of Bachelor of Arts.

Mathematical and Computer Sciences

Level III courses listed under Academic Program Rule 4.4 of the degree of Bachelor of Computer Science and Specific Academic Program Rule 4.2 of the Bachelor of Mathematical and Computer Sciences.

Science

Level III Courses listed under Academic Program Rule 5.9.7 of the degree of Bachelor of Science.

6.4 Graduation

Subject to Chapter 89 of the Statutes, candidates who have satisfied the requirements for any award of the University shall be admitted to that award at a graduation ceremony for the purpose.

7 Special circumstances

When in the opinion of the relevant Faculty, special circumstances exist, the Council, on the recommendation of the Council in each case, may vary any of the provisions of the Academic Program Rules for any particular award.

Bachelor of Psychology – Graduate Attributes

The principal aim of this program is to provide graduates with a comprehensive tertiary-level education in Psychology and related areas of learning. The program is also designed to enable graduates to meet the prerequisites for progression to Honours and postgraduate levels of study in this discipline.

Knowledge

- All of the core topics specified by the Australian Psychological Society for an accredited major within this discipline, specifically: biological bases of behaviour; perception; cognition, information processing and language; learning; motivation and emotion; social psychology; lifespan developmental psychology; individual differences in capacity and behaviour, testing and assessment, personality; and abnormal psychology.
- The range of methodologies employed to collect and analyse data relevant to the above topics.
- The historical origins of ideas within this discipline.
- Some of the ways whereby contemporary psychology is being/could be applied to real-world problems and issues.

Intellectual and social capabilities

- An ability to communicate with audiences with differing levels of knowledge about psychological topics.
- An ability to enter into rational debate on psychological topics.
- An ability to critically evaluate the validity of claims relevant to or derived from the discipline of psychology.
- An understanding of both qualitative and quantitative methods for the analysis of data collected for the purpose of testing the validity of psychological knowledge claims and answering specific research questions in psychology.
- An ability to produce written reports on psychological issues and questions.
- A basic understanding of how the knowledge and methods of contemporary psychology may be applied towards the management and/or solution of human problems.

Attitudes and values

- A sensitivity to the cultural and ethical issues that may impact on the way that the knowledge acquired within psychology is interpreted and used.
- A respect for people and their fundamental human rights, regardless of age, gender, ability, ethnic or religious background.
- A respect for the scholarly heritage of psychology as an academic discipline and for the past, present and future contributions of psychology as a profession.

Bachelor of Psychology (Honours)

Academic Program Rules

1 General

There shall be an Honours degree of Bachelor of Psychology.

2 Duration of program

The program of study shall extend over four years of full-time study or part-time equivalent.

3 Admission

3.1 Status, exemption and credit transfer

3.1.1 In determining a candidate's eligibility for the award of the degree, the Department may disallow any course passed more than 10 years previously. Credit for other courses may be allowed at the discretion of the Head of the Department of Psychology.

3.1.2 Candidates may be permitted to count towards the degree courses which have been passed in another degree program, up to a maximum value of 48 units, but will be required to present Level III and Level IV courses to the value of 24 units each which have not been presented for another degree, and in addition satisfy the requirements of Rule 6.2.

3.1.3 Candidates who have completed all the requirements for the Bachelor of Psychology degree to a standard acceptable to the Faculty may be admitted to the Bachelor of Psychology (Honours) program with status for all courses prior to Level IV.

4 Enrolment

Each student's program of study shall be approved by the Executive Dean of Faculty (or nominee) at enrolment each year.

5 Assessment and Examinations

5.1 A candidate shall not be eligible to attend for examination unless the prescribed work has been completed to the satisfaction of the teaching staff concerned. A candidate who is not eligible to attend for examination shall be deemed to have failed the examination.

5.2 In determining the final result in a course (or part of a course) the examiners may take into account the candidate's oral, written, practical and examination work, provided that the candidate has been given adequate notice at the commencement of the teaching of the course of the way in which the work will be taken into account and of its relative importance to the final result.

5.3 A candidate who satisfies the requirements for Honours shall be awarded the Honours degree, but the Faculty shall decide within which of the following classes and divisions the degree shall be awarded:

1	First Class
2A	Second Class div A
2B	Second Class div B
3	Third Class
NAH	Not awarded.

5.4 The examination for Level IV will consist of written papers and the thesis on the research project.

5.5 Review of academic progress

5.5.1 A candidate must maintain the prescribed level of performance for progression from each of Levels I, II, and III. Any student who fails to achieve an average of 65 per cent or higher in psychology courses undertaken at a given Level (based on the first attempt result for each course) will be determined to be making unsatisfactory progress and will be required to show cause why they should not be excluded from the program. Students in this position will be written to by the Department in December of the year concerned. The letter will outline the *show cause* procedures.

5.5.2 A candidate who does not maintain the level of performance prescribed in 5.5.1 may not proceed with the Bachelor of Psychology (Honours) program, but may apply to transfer to another degree program.

6 Qualification requirements

6.1 To qualify for the Honours degree a candidate shall, subject to the conditions specified below, pass courses to the value of at least 96 units, which must include the following:

(a) Level 1 courses to the value of 24 units, which must include Psychol 1000 Psychology IA (3 units) and PSYCHOL 1001 Psychology IB (3 units)

(b) Level 2 courses to the value of 24 units, which must include PSYCHOL 2000 Psychology IIA (4 units), PSYCHOL 2003 Psychology IIB (4 units) and PSYCHOL 2001 Psychological Research Methodology II (4 units)

(c) Level 3 courses to the value of 24 units, which must include PSYCHOL 3000 Psychological Research Methodology III (4 units) and other Level 3 Psychology courses to the value of at least 14 units

(d) PSYCHOL 4000A/B Honours Psychology (24 units).

6.1.1 With the permission of the Executive Dean of the Faculty of Health Sciences and the Executive Dean of the other Faculty, in lieu of up to 14 units described under 6.2 below, a candidate may take courses from the Academic Program Rules of any Faculty which are considered appropriate coursework for the Bachelor of Psychology (Honours) degree.

6.1.2 All other components (a total of 72 units) must be completed before undertaking the Fourth Year program.

6.1.3 No candidate will be permitted to count for the degree any course together with any other course which, in the opinion of the Faculty, contains a substantial amount of the same material; and no course may be counted twice towards the degree. No candidate may present the same section of a course in more than one course for the degree.

6.2 Academic Program

Level I

PSYCHOL 1000 Psychology IA

PSYCHOL 1001 Psychology IB

plus courses to the value of at least 18 units selected from the following:

Architecture

Level I courses listed under Academic Program Rule 5.1 of the degree of Bachelor of Design Studies.

Commerce

Level I courses listed under Academic Program Rule 4.8 of the degree of Bachelor of Commerce.

Economics

Level I courses listed under Academic Program Rule 4.7 of the degree of Bachelor of Economics.

Health Sciences

Level I courses listed under Academic Program Rule 5.1.1 of the degree of Bachelor of Health Sciences.

Humanities and Social Sciences

Level I courses listed under Academic Program Rule 6.12.1 of the degree of Bachelor of Arts.

Mathematical and Computer Sciences

Level I courses listed under Academic Program Rule 4.4 of the degree of Bachelor of Computer Science and Academic Program Rule 4.2 of the Bachelor of Mathematical and Computer Sciences.

Science

Level I Courses listed under Academic Program Rule 5.9.1 of the degree of Bachelor of Science.

Level II

PSYCHOL 2001 Psychological Research Methodology II

PSYCHOL 2002 Psychology IIA

PSYCHOL 2003 Psychology IIB

plus other Level 2 courses from the list below to the value of at least 12 units:

Architecture

Level II courses listed under Academic Program Rule 5.1 of the degree of Bachelor of Design Studies.

Commerce

Level II courses listed under Academic Program Rule 4.8 of the degree of Bachelor of Commerce.

Economics

Level II courses listed under Academic Program Rule 4.7 of the degree of Bachelor of Economics.

Health Sciences

Level II courses listed under Academic Program Rule 5.1.2 of the degree of Bachelor of Health Sciences.

Humanities and Social Sciences

Level II courses listed under Academic Program Rule 6.12.2 of the degree of Bachelor of Arts.

Mathematical and Computer Sciences

Level II courses listed under Academic Program Rule 4.4 of the degree of Bachelor of Computer Science and Academic Program Rule 4.2 of the Bachelor of Mathematical and Computer Sciences.

Science

Level II Courses listed under Academic Program Rule 5.9.3 of the degree of Bachelor of Science.

Level III

PSYCHOL 3000 Psychological Research Methodology III

plus other Psychology courses from the list shown below to the value of at least 14 units:

PSYCHOL 3001 Environmental Psychology III	2
PSYCHOL 3002 Mind, Brain and Evolution III	2
PSYCHOL 3003 Developmental Psychology III	2
PSYCHOL 3005 Perception and Cognition III	2
PSYCHOL 3006 Psychology: Physiology & Behaviour III	2
PSYCHOL 3009 Metapsychology III	2
PSYCHOL 3010 Social Psychology III	2

PSYCHOL 3013 Learning and Behaviour III	2
PSYCHOL 3014 Individual Differences III	2
PSYCHOL 3015 Human Relations III	2

plus other Level III courses from the following list:

Architecture

Level III courses listed under Academic Program Rule 5.1 of the degree of Bachelor of Design Studies.

Commerce

Level III courses listed under Academic Program Rule 4.8 of the degree of Bachelor of Commerce.

Economics

Level III courses listed under Academic Program Rule 4.7 of the degree of Bachelor of Economics.

Health Sciences

Level III courses listed under Academic Program Rule 5.1.3 of the degree of Bachelor of Health Sciences.

Humanities and Social Sciences

Level III courses listed under Academic Program Rule 6.12.3 of the degree of Bachelor of Arts.

Mathematical and Computer Sciences

Level III courses listed under Academic Program Rule 4.4 of the degree of Bachelor of Computer Science and Academic Program Rule 4.2 of the Bachelor of Mathematical and Computer Sciences.

Science

Level III Courses listed under Academic Program Rule 5.9.7 of the degree of Bachelor of Science.

Level IV

PSYCHOL 4000A/B Honours Psychology	24

6.3 Graduation

Subject to Chapter 89 of the Statutes, candidates who have satisfied the requirements for any award of the University shall be admitted to that award at a graduation ceremony for the purpose.

7 Special circumstances

When in the opinion of the relevant Faculty special circumstances exist, the Council, on the recommendation of the Faculty in each case, may vary any of the provisions of the Academic Program Rules for any particular award.

Bachelor of Psychology (Honours) – Graduate Attributes

The principal aim of this program is to provide graduates with the tertiary-level education required to be eligible for conditional registration as a Psychologist. The program is also designed to enable graduates to meet the prerequisites for progression to postgraduate study in this discipline.

Knowledge

- All of the topics specified by the Australian Psychological Society as core areas of learning within this discipline, specifically: biological bases of behaviour; perception; cognition, information processing and language; learning; motivation and emotion; social psychology; lifespan developmental psychology; individual differences in capacity and behaviour, testing and assessment, personality; and abnormal psychology.
- The range of methodologies employed to collect and analyse data relevant to the above topics.
- The historical origins of ideas within this discipline.
- Some of the ways whereby contemporary psychology is being/could be applied to real-world problems and issues.

Intellectual and social capabilities

- An ability to communicate with audiences with differing levels of knowledge about psychological topics.
- An ability to enter into rational debate on psychological topics.
- An ability to critically evaluate claims relevant to or derived from the discipline of psychology and to formulate specific research questions with respect to those claims.
- An ability to conduct empirical investigations appropriate for testing the validity of psychological knowledge claims and for the provision of evidence appropriate for answering specific research questions in psychology.
- An ability to employ both qualitative and quantitative methods for the analysis of data collected for the purpose of testing the validity of psychological knowledge claims and answering specific research questions in psychology.
- An ability to produce written reports of a professional standard on psychological issues and questions.
- A basic understanding of how the knowledge and methods of contemporary psychology may be applied towards the management and/or solution of human problems.

Attitudes and values

- A sensitivity to the cultural and ethical issues that may impact on the way that the knowledge acquired within psychology is interpreted and used.
- A respect for people and their fundamental human rights, regardless of age, gender, ability, ethnic or religious background.
- A respect for the scholarly heritage of psychology as an academic discipline and for the past, present and future contributions of psychology as a profession.

Elder School of Music

Contents

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Diploma in Music (Jazz)
Dip.Mus.(Jazz)

Certificate IV in Music (Classical)
Cert.IV Mus.(Class.)

Certificate IV in Music (Jazz)
Cert.IV Mus.(Jazz.)

Certificate IV in Music (Technology)
Cert.IV Mus.(Technology)

Certificate III in Music
Cert.III Mus. 233

Bachelor of Music
B.Mus.

Bachelor of Music Education
B.Mus.Ed.

Bachelor of Music Studies
B.Mus.St.

Bachelor of Music (Honours)
B.Mus.(Hons.)

Bachelor of Music Education (Honours)
B.Mus.Ed.(Hons.)

Bachelor of Music Studies (Honours)
B.Mus.St.(Hons.) 238

Appendix A:
Single Study Courses in the Elder School of Music 250

Undergraduate awards in the Elder School of Music

- Diploma in Music (Jazz)
- Certificate III in Music
- Certificate IV in Music (Classical)
- Certificate IV in Music (Jazz)
- Certificate IV in Music (Technology)
- Degree of Bachelor of Music
- Degree of Bachelor of Music Education
- Degree of Bachelor of Music Studies
- Honours degree of Bachelor of Music
- Honours degree of Bachelor of Music Education
- Honours degree of Bachelor of Music Studies

Notes on Delegated Authority

1 Council has delegated the power to approve minor changes to the Academic Program Rules to the Executive Deans of Faculties.

2 Council has delegated the power to specify syllabuses to the Head of each department or centre concerned, such syllabuses to be subject to approval by the Faculty or by the Executive Dean on behalf of the Faculty.

Diploma in Music (Jazz)
Certificate IV in Music (Classical)
Certificate IV in Music (Jazz)
Certificate IV in Music (Technology)
Certificate III in Music

Academic Program Rules

1 General

1.1 There shall be a:

Diploma in Music (Jazz)

Certificate IV in Music (Classical)

Certificate IV in Music (Jazz)

Certificate IV in Music (Technology)

Certificate III in Music.

2 Duration of programs

2.1 The program of study for the Diploma in Music (Jazz) shall extend over one academic year of full-time study or equivalent.

The program of study for the Certificate IV in Music (Classical) shall extend over one academic year of full-time study or equivalent.

The program of study for the Certificate IV in Music (Jazz) shall extend over one academic year of full-time study or equivalent.

The program of study for the Certificate IV in Music (Technology) shall extend over one academic year of full-time study or equivalent.

The program of study for the Certificate III in Music shall extend over one academic year of part-time study or the equivalent.

2.2 A student may interrupt the program for such periods and on such conditions as may in each case be determined by the School.

2.3 Students wishing to interrupt their studies in accordance with 2.2 above must apply through the School Registrar for permission and obtain beforehand the approval of the Dean on behalf of the School for leave of absence for a defined period.

2.4 A student who leaves the program without approval or who extends a leave of absence beyond the time period approved under 2.2 above shall be deemed to have withdrawn his or her candidate for the award but may reapply for admission to the program in accordance with the procedures in operation at that time.

2.5 Students who have interrupted their studies in prescribed courses may be required to resume at such point in the program and/or to undertake such additional or special program of study as the Dean of the School deems appropriate.

3 Admission

3.1 Diploma in Music (Jazz)

Admission to the program of study for Diploma in Music (Jazz) shall be determined on the basis of academic merit and musical performance. All applicants shall be auditioned prior to admission and shall be ranked, for selection purposes, in order of their audition results and in order of the selection score from satisfactory completion of Year 12 or the equivalent.

A candidate will not be permitted to defer an offer of admission to the program.

3.2 Certificate IV in Music (Classical)

Admission to the program of study for Certificate IV in Music (Classical) shall be determined on the basis of academic merit and musical performance. All applicants shall be auditioned prior to admission and shall be ranked, for selection purposes, in order of their audition results and in order of the selection score from satisfactory completion of Year 12 or the equivalent.

A candidate will not be permitted to defer an offer of admission to the program.

3.3 Certificate IV in Music (Jazz)

Admission to the program of study for Certificate IV in Music (Jazz) shall be determined on the basis of academic merit and musical performance. All applicants shall be auditioned prior to admission and shall be ranked, for selection purposes, in order of their audition results and in order of the selection score from satisfactory completion of Year 12 or the equivalent.

A candidate will not be permitted to defer an offer of admission to the program.

3.4 Certificate IV in Music (Technology)

Admission to the program of study for Certificate IV in Music (Technology) shall be determined on the basis of academic merit and the presentation of a portfolio at interview. All applicants shall be interviewed prior to admission and shall be ranked, for selection purposes, in order of their audition results and in order of the selection score from satisfactory completion of Year 12 or the equivalent.

A candidate will not be permitted to defer an offer of admission to the program.

3.5 Certificate III in Music

Admission to the program of study for Certificate III in Music shall be determined on the basis of academic merit and musical performance or the presentation of a portfolio at interview. All applicants shall be auditioned prior to admission and shall be ranked, for selection purposes, in order of their audition results and in order of the selection score from satisfactory completion of Year 12 or the equivalent.

A candidate will not be permitted to defer an offer of admission to the program.

4 Enrolment

4.1 Candidates must obtain the approval of the Dean of the School, or the nominee of the Dean, for the proposed programs of study.

4.2 The requirements of courses taken in one semester must be completed within the same semester and courses taken in one year must be completed in the same year.

4.3 The School may permit a candidate to complete the requirements of a full year course over a period of two years on such conditions as it may determine.

4.4 Except where otherwise determined by the School, a candidate who is eligible in any year to enrol in Performance or Practical Study courses and who fails to do so, and who wishes to enrol in one of these courses in a subsequent year, shall be required to attend an audition and to reach a minimum standard for enrolment in the course in question before being authorised to enrol in that course.

4.5 A candidate must satisfy the prerequisite requirements for enrolment in semester two courses.

5 Assessment and examinations

5.1 A candidate shall not be eligible to present for examination unless the prescribed classes have been regularly attended, and the written, practical or other work required has been completed to the satisfaction of the teaching staff concerned.

5.2 A candidate who is not granted permission to sit for an examination, or who does not attend all or part of the examination after having attended substantially the full program of instruction in that course, shall be deemed to have failed the examination.

5.3 There are specific attendance requirements for all Music programs. In particular, students are expected to attend all classes, lectures or ensemble sessions and this requires students to provide reasonable explanations for, or proper notification of, failure to attend. Students who do not comply with these requirements may be failed in a given course. Full details on attendance requirements are available from the program advisers and lecturers.

5.4 In determining a candidate's final result in a course the examiners may take into account oral, written, practical and examination work, provided that the candidate has been given adequate notice at the commencement of the teaching of the course, of the way in which work will be taken into account and of its relative importance in the final result.

5.5 There shall be three classifications of pass in the final assessment of any course for the Certificate awards offered by the School: Pass with Distinction, Pass with Credit, and Pass.

If the Pass classification be in two divisions, a pass in the higher division may be prescribed in the syllabuses as a prerequisite for admission to further studies in that course or to other courses. A particular competency shall be deemed to have been achieved when all relevant sections of courses mapped against it have been completed.

5.6 A candidate who fails a course, or who obtains a lower division pass and who desires to take that course again shall, unless exempted wholly or partially therefrom by the School, again complete the required work in that course to the satisfaction of the teaching staff concerned.

5.7 A candidate who has twice failed the examination in any course for the program in which the candidate is enrolled may not enrol for that course again or for any other course which in the opinion of the School contains a substantial

amount of the same material, except by special permission of the School and then only under such conditions as the School may prescribe.

6 Qualification requirements

6.1 Academic program: Diploma in Music (Jazz)

6.1.1 The program for the Diploma in Music (Jazz) may be taken with a major study in Jazz Performance.

6.1.2 To qualify for the Diploma a candidate shall satisfactorily complete the requirements for courses listed below in 6.1.2.1. Courses to a total value of 24 units must be presented. No student shall gain credit for a course more than once.

6.1.2.1 Diploma in Music (Jazz)

Candidates shall satisfactorily complete the following:

VETMUS 1502 OH&S	1
VETMUS 1504 A/B Career Management Part 1 & 2	2
VETMUS 1505 Copyright Law	1
VETMUS 1614A/B Aural Development (Dip) Part 1 & 2	2
VETMUS 1750A/B Individual Tuition (Dip) Part 1 & 2	4
VETMUS 1751A/B Small Ensemble (Dip) Part 1 & 2	3
VETMUS 1752A/B Jazz Diploma Workshop Part 1 & 2	4
VETMUS 1753A/B Jazz Diploma Forum Part 1 & 2	1
VETMUS 1754A/B Jazz Accompaniment Part 1 & 2	2
VETMUS 1755 Sound Production A	2
VETMUS 1756 Sound Production B	2

6.1.3 No candidate will be permitted to count towards an award any course, together with any other course, which, in the opinion of the Faculty concerned, contains a substantial amount of the same material; and no course or portion of a course may be counted twice towards an award. A list of unacceptable course combinations is available from The Elder School of Music Office.

Notes (not forming part of the Academic Program Rules)

1 Work required to complete the Diploma in Music (Jazz)

To qualify for the award of the Diploma in Music (Jazz) a candidate granted status (see relevant section under Student Related Polices In Student Guide 2005) except in special cases approved by the School, complete all the work of the prescribed program while attending the University.

2 Availability of courses and options:

The School reserves the right not to offer certain courses in any particular year. Decisions on which courses are to be offered will be determined partly by the availability of relevant staff members and partly by the numbers of students who enrol in a course or option. If the numbers are less than forty then the course might not be offered.

6.2 Academic program: Certificate IV in Music (Classical)

6.2.1 The program for the Certificate IV in Music (Classical) may be taken with a major study in Classical Performance on an instrument or voice.

6.2.2 To qualify for the Certificate a candidate shall satisfactorily complete the requirements for courses listed below in 6.1.2.1. Courses to a total value of 24 units must be presented. No student shall gain credit for a course more than once.

6.2.2.1 Classical Performance

Candidates shall satisfactorily complete the following:

VETMUS 1501 Music Industry and Business Management	1
VETMUS 1502 OH&S	1
VETMUS 1503 Assignment Writing & Research Skills	1
VETMUS 1602A/B Aural Development (VET)Part 1 & 2	2
VETMUS 1605A/B Ensemble (C4) Part 1 & 2	2
VETMUS 1607A/B History of 20th Century Music Part 1 & 2	2
VETMUS 1608A/B Theory of Music Part 1 & 2	2
VETMUS 1609A/B Individual Tuition (C4) Part 1 & 2	4
VETMUS 1801A/B Composition Class Part 1 & 2	2
VETMUS 1804A/B Performance Class Part 1 & 2	2
VETMUS 1807A/B Technique & Repertoire Part 1 & 2	3
and	
VETMUS 1802 A/B Keyboard Musicianship (Majors) Part 1 & 2	2
or	
VETMUS 1808 A/B Keyboard Musicianship (Minors) Part 1 & 2	2

6.2.3 No candidate will be permitted to count towards an award any course, together with any other course, which, in the opinion of the Faculty concerned, contains a substantial amount of the same material; and no course or portion of a course may be counted twice towards an award. A list of unacceptable course combinations is available from The Elder School of Music Office.

6.2.4 Subject to Chapter 89 of the Statutes, candidates who have satisfied the requirements for any award of the University shall be admitted to that award at a graduation ceremony for the purpose.

Notes (not forming part of the Academic Program Rules)

1 **Work required to complete the Certificate**

To qualify for the award of the Certificate IV in Music (Classical) a candidate granted status (see relevant section under Student Related Polices In Student Guide 2003) must, except in special cases approved by the School, complete all the work of the prescribed program while attending the University.

2 **Availability of courses and options:**

The School reserves the right not to offer certain courses in any particular year. Decisions on which courses are to be offered will be determined partly by the availability of relevant staff members and partly by the numbers of students who enrol in a course or option. If the numbers are less than forty then the course might not be offered.

6.3 Academic program: Certificate IV in Music (Jazz)

6.3.1 The program for the Certificate IV in Music (Jazz) may be taken with a major study in Jazz Performance.

6.3.2 To qualify for the Certificate a candidate shall satisfactorily complete the requirements for courses listed below in 6.2.2.1. Courses to a total value of 24 units must be presented. No student shall gain credit for a course more than once.

6.3.2.1 Certificate IV in Music (Jazz)

Candidates shall satisfactorily complete the following:

VETMUS 1501 Music Industry and Business Management	1
VETMUS 1502 OH&S	1
VETMUS 1503 Assignment Writing & Research Skills	1
VETMUS 1602A/B Aural Development (VET)Part 1 & 2	2
VETMUS 1701A/B Jazz Styles I Part 1 & 2	3
VETMUS 1702A/B Jazz Theory I Part 1 & 2	2
VETMUS 1703A/B Jazz Piano Class Part 1 & 2	2
VETMUS 1704A/B Jazz Performance I Part 1 & 2	4
VETMUS 1705A/B Improvisation I Part 1 & 2	3
VETMUS 1707A/B Small Ensemble Part 1 & 2	2
VETMUS 1708A/B Jazz Masterclass Part 1 & 2	2
VETMUS 1709A/B Jazz Forum Part 1 & 2	1

6.3.3 No candidate will be permitted to count towards an award any course, together with any other course, which, in the opinion of the Faculty concerned, contains a substantial amount of the same material; and no course or portion of a course may be counted twice towards an award. A list of unacceptable course combinations is available from The Elder School of Music Office.

6.3.4 Subject to Chapter 89 of the Statutes, candidates who have satisfied the requirements for any award of the University shall be admitted to that award at a graduation ceremony for the purpose.

Notes (not forming part of the Academic Program Rules)

1 **Work required to complete the Certificate IV in Music (Jazz)**

To qualify for the award of the Certificate IV in Music (Jazz) a candidate granted status (see relevant section under Student Related Polices In Student Guide 2003) except in special cases approved by the School, complete all the work of the prescribed program while attending the University.

2 **Availability of courses and options:**

The School reserves the right not to offer certain courses in any particular year. Decisions on which courses are to be offered will be determined partly by the availability of relevant staff members and partly by the numbers of students who enrol in a course or option. If the numbers are less than forty then the course might not be offered.

6.4 Academic program: Certificate IV in Music (Technology)

6.4.1 The program for the Certificate IV in Music (Technology) may be taken with a Practical Study in Music Technology.

6.4.2 To qualify for the Certificate a candidate shall satisfactorily complete the requirements for courses listed below in 6.3.2.1. Courses to a total value of 24 units must be presented. No student shall gain credit for a course more than once.

6.4.2.1 Music Technology

Candidates shall satisfactorily complete the following:

VETMUS 1501 Music Industry & Business Management	1
VETMUS 1502 OH&S	1
VETMUS 1503 Assignment Writing & Research Skills	1
VETMUS 1602A/B Aural Development (VET)Part 1 & 2	2
VETMUS 1603A/B Theoretical studies Part 1 & 2	2
VETMUS 1606A/B History of Commercial Music Part 1 & 2	2
VETMUS 1801A/B Composition Class Part 1 & 2	2
VETMUS 1904A/B Recital part 1 & 2	1
VETMUS 1905A/B Practical Technology part 1 & 2	1
VETMUS 1907A/B Digital Audio Studies (C4) Part 1 & 2	4
VETMUS 1908 Music Technology (C4)	1
VETMUS 1909A/B Midi Studies (C4) Part 1 & 2	3
VETMUS 1910A/B Technology Journal (C4) Part 1 & 2	2
and	
VETMUS 1802A/B Keyboard Musicianship (Majors) Part 1 & 2	2
04	
VETMUS 1808A/B Keyboard Musicianship (Minors) Part 1 & 2	2

6.4.3 No candidate will be permitted to count towards an award any course, together with any other course, which, in the opinion of the Faculty concerned, contains a substantial amount of the same material; and no course or portion of a course may be counted twice towards an award. A list of unacceptable course combinations is available from The Elder School of Music Office.

6.4.4 Subject to Chapter 89 of the Statutes, candidates who have satisfied the requirements for any award of the University shall be admitted to that award at a graduation ceremony for the purpose.

Notes (not forming part of the Academic Program Rules)

1 **Work required to complete the Certificate IV in Music (Technology):**

To qualify for the award of the Certificate IV in Music (Technology) a candidate granted status(see relevant section under Student Related Polices In Student Guide 2003) must, except in special cases approved by the School, complete all the work of the prescribed program while attending the University.

2 **Availability of courses and options:**

The School reserves the right not to offer certain courses in any particular year. Decisions on which courses are to be offered will be determined partly by the availability of relevant staff members and partly by the numbers of students who enrol in a course or option. If the numbers are less than forty then the course might not be offered.

6.5 Academic program: Certificate III in Music

6.5.1 The program for the Certificate III in Music may be taken with a major study in performance or composition.

6.5.2 To qualify for the Certificate a candidate shall satisfactorily complete the requirements for courses listed below in 6.4.2.1. Courses to a total value of 14 units must be presented. No student shall gain credit for a course more than once.

6.5.2.1 Certificate III in Music

Candidates shall satisfactorily complete the following:

VETMUS 1501 Music Industry and Business Management	1
VETMUS 1502 OH&S	1
VETMUS 1503 Assignment Writing & Research Skills	1
VETMUS 1601A/B History and Literature Part 1 & 2	2
VETMUS 1610A/B Individual Tuition (C3) Part 1 & 2	3
VETMUS 1611A/B Aural Development (C3) Part 1 & 2	2
VETMUS 1612A/B Ensemble (C3) Part 1 & 2	2
VETMUS 16013A/B Theory of Music (C3) Part 1 & 2	2

6.5.3 No candidate will be permitted to count towards an award any course, together with any other course, which, in the opinion of the Faculty concerned, contains a substantial amount of the same material; and no course or portion of a course may be counted twice towards an award. A list of unacceptable course combinations is available from The Elder School of Music Office.

6.5.4 Subject to Chapter 89 of the Statutes, candidates who have satisfied the requirements for any award of the University shall be admitted to that award at a graduation ceremony for the purpose.

Notes (not forming part of the Academic Program Rules)

1 Work required to complete the Certificate III in Music.

To qualify for the award of the Certificate III in Music a candidate granted status under General Academic Program Rule 1.4.20 must, except in special cases approved by the School, complete all the work of the prescribed program while attending the University.

2 Availability of courses and options:

The School reserves the right not to offer certain courses in any particular year. Decisions on which courses are to be offered will be determined partly by the availability of relevant staff members and partly by the numbers of students who enrol in a course or option. If the numbers are less than forty then the course might not be offered.

7 External Performances/Engagements

Students are encouraged to take outside engagements, provided that:

(a) a student shall not take part in any public concert or engagement that prohibits the student from attending a scheduled lesson or class except by permission of the Director.

(b) The Director reserves the right to determine whether or not a student shall be required to acknowledge the name of the School or its staff, at any public concert or engagement in which the student participates.

8 Special circumstances

When in the opinion of the relevant Faculty special circumstances exist, the Council, on the recommendation of the Faculty in each case, may vary any of the provisions of the Academic Program Rules for any particular award.

Bachelor of Music
Bachelor of Music Education
Bachelor of Music Studies
Bachelor of Music (Honours)
Bachelor of Music Education (Honours)
Bachelor of Music Studies (Honours)

Academic Program Rules

1 General

1.1 There shall be:

A degree and an Honours degree of Bachelor of Music

A degree and an Honours degree of Bachelor of Music Education

A degree and an Honours degree of Bachelor of Music Studies

2 Duration of programs

2.1 The program of study for the degree of Bachelor of Music shall extend over three academic years and that for the Honours degree over four academic years of full-time study or equivalent. Details and requirements for the Honours degree are provided in 2.4 below.

2.2 The program of study for the degree of Bachelor of Music Education shall extend over four academic years and that for the Honours degree over five academic years of full-time study or equivalent. Details and requirements for the Honours degree are provided in 2.4 below.

2.3 The program of study for the degree of Bachelor of Music Studies shall extend over three academic years and that for the Honours degree over four academic years of full-time study or equivalent. Details and requirements for the Honours degree are provided in 2.4 below.

2.4 The work of the Honours year shall normally be completed in one year of full-time study. The School may permit a candidate to present the work over a period of not more than two years on such conditions as it may determine.

2.5 A student may interrupt the program for such periods and on such conditions as may in each case be determined by the School.

2.6 Students wishing to interrupt their studies in accordance with 2.5 above must apply through the School Registrar for permission and obtain beforehand the approval of the Dean on behalf of the School for leave of absence for a defined period.

2.7 A student who leaves the program without approval or who extends a leave of absence beyond the time period approved under 2.5 above shall be deemed to have withdrawn his or her candidate for the award but may reapply for admission to the program in accordance with the procedures in operation at that time.

2.8 Students who have interrupted their studies in prescribed courses may be required to resume at such point in the program and/or to undertake such additional or special program of study as the Dean of the School deems appropriate.

3 Admission

3.1 Bachelor of Music

Admission to the program of study for the degree of Bachelor of Music shall be determined on the basis of academic merit and musical performance. All applicants shall be auditioned prior to admission and shall be ranked, for selection purposes, in order of their audition results and in order of the selection score from satisfactory completion of Year 12.

A candidate will not be permitted to defer an offer of admission to the program.

3.2 Bachelor of Music Education

Admission to the program of study for the degree of Bachelor of Music Education shall be determined on the basis of academic merit and performance by audition in one of Music Performance, Music Technology or

Composition. All applicants shall be auditioned prior to admission and shall be ranked, for selection purposes, in order of their audition results and in order of the selection score from satisfactory completion of Year 12.

A candidate will not be permitted to defer an offer of admission to the program.

3.3 Bachelor of Music Studies

Admission to the program of study for the degree of Bachelor of Music Studies shall be determined on the basis of academic merit and performance by audition in one of Music Performance, Music Technology or Composition. All applicants shall be auditioned prior to admission and shall be ranked, for selection purposes, in order of their audition results and in order of the selection score from satisfactory completion of Year 12.

A candidate will not be permitted to defer an offer of admission to the program.

3.4 The Honours degrees

Before enrolling in the Honours program a candidate must obtain the approval of the Dean, who will take into account the candidate's academic record up to the time of application. Normally such approval should be sought towards the end of Level III of the program for the degree of Bachelor of Music or Bachelor of Music Studies or Level IV in the case of the degree of Bachelor of Music Education. Before entering the Honours year, candidates must have qualified for the Bachelor degree, including Level III or IV courses in the field in which it is proposed to undertake Honours.

4 Enrolment

4.1 Candidates must obtain the approval of the Dean of the School, or nominee, for the proposed programs of study.

4.2 The requirements of courses taken in one semester must be completed within the same semester and courses taken in one year must be completed in the same year.

4.3 The School may permit a candidate to complete the requirements of a full year course over a period of two years on such conditions as it may determine.

4.4 Except where otherwise determined by the School, a candidate who is eligible in any year to enrol in Performance or Practical Study courses and who fails to do so, and who wishes to enrol in one of these courses in a subsequent year, shall be required to attend an audition and to reach a minimum standard for enrolment in the course in question before being authorised to enrol in that course.

4.5 A candidate who has satisfied the prerequisite requirements for enrolment in later year courses, may so enrol before completing all the courses of the preceding level.

5 Assessment and examinations

5.1 A candidate shall not be eligible to present for examination unless the prescribed classes have been regularly attended, and the written, practical or other work required has been completed to the satisfaction of the teaching staff concerned.

5.2 A candidate who is not granted permission to sit for an examination, or who does not attend all or part of the examination after having attended substantially the full program of instruction in that course, shall be deemed to have failed the examination.

5.3 There are specific attendance requirements for all Music programs. In particular, students are expected to attend all classes, lectures or ensemble sessions and this requires students to provide reasonable explanations for, or proper notification of, failure to attend. Students who do not comply with these requirements may be failed in a given course. Full details on attendance requirements are available from the program advisers and lecturers.

5.4 In determining a candidate's final result in a course the examiners may take into account oral, written, practical and examination work, provided that the candidate has been given adequate notice at the commencement of the teaching of the course, of the way in which work will be taken into account and of its relative importance in the final result.

5.5 There shall be four classifications of pass in the final assessment of any course for the undergraduate awards offered by the School: Pass with High Distinction, Pass with Distinction, Pass with Credit, and Pass.

If the Pass classification be in two divisions, a pass in the higher division may be prescribed in the syllabuses as a prerequisite for admission to further studies in that course or to other courses.

5.6 A candidate who satisfies the requirements for Honours shall be awarded the Honours degree, but the Faculty shall decide within which of the following classes and divisions the degree shall be awarded:

1	First Class
2A	Second Class div A
2B	Second Class div B
3	Third Class
NAH	Not awarded.

5.7 A candidate who fails a course, or who obtains a lower division pass and who desires to take that course again shall, unless exempted wholly or partially therefrom by the School, again complete the required work in that course to the satisfaction of the teaching staff concerned.

5.8 A candidate who has twice failed the examination in any course for the program in which the candidate is enrolled may not enrol for that course again or for any other course which in the opinion of the School contains a substantial amount of the same material, except by special permission of the School and then only under such conditions as the School may prescribe.

5.9 Candidates may not enrol a second time for an Honours program if they have

(a) already qualified for Honours *or*

(b) presented for examination, but failed to obtain Honours *or*

(c) withdrawn from the Honours program, unless the Faculty on such conditions as it may determine permits re-enrolment.

6 Qualification requirements

6.1 Academic program: Bachelor of Music

6.1.1 The program for the degree of Bachelor of Music may be taken with a major study in Classical Performance on an instrument or voice, or in Jazz Performance.

6.1.2 To qualify for the Bachelor degree a candidate shall satisfactorily complete the requirements for courses listed below and those courses listed in any one of 6.1.2.1 to 6.1.2.3. Courses to a total value of 72 units must be presented. At least 20 units shall comprise Level III courses. No student shall gain credit for a course more than once.

6.1.2.1 Classical Performance

Candidates shall satisfactorily complete the following courses:

Level I

MUSCORE 1001 Approaches to Music I 3

MUSCORE 1002 Concepts of Composition I 3

MUSCORE 1003 Music Foundations I: Classical 3

MUSCORE 1004 Music in Context I: Tonality and Form in Western Music 3

and

PERF 1500A/B Classical Performance I Part 1 & 2 9

and an Ensemble from one of the following unless specified otherwise in the Specialist Requirements:

ENS 1001A/B A Kind of Blue I Part 1 & 2 3

ENS 1002A/B Adelaide Connection I Part 1 & 2 3

ENS 1009A/B Elder Conservatorium Symphony Orchestra I Part 1 & 2 3

ENS 1010A/B Elder Conservatorium Wind Ensemble I Part 1 & 2 3

ENS 1025A/B Elder Conservatorium Chorale I Part 1 & 2 3

ENS 1026A/B Adelaide Voices I Part 1 & 2 3

ENS 1027A/B Bella Voce I Part 1 & 2 3

Please note that in some instrumental/vocal specialisations there are ensembles that are required by your specialist requirements listed below:

Brass:

ENS 1009A/B Elder Conservatorium Symphony Orchestra I Part 1 & 2 3

or

ENS 1010A/B Elder Conservatorium Wind Ensemble I Part 1 & 2 3

Keyboard:

PERF 1002A/B Keyboard Musicianship I Part 1 & 2 3

Percussion:

ENS 1017A/B Percussion Ensemble I Part 1 & 2 3

Strings:

ENS 1009A/B Elder Conservatorium Symphony Orchestra I Part 1 & 2 3

Voice:

One of:

ENS 1025A/B Elder Conservatorium Chorale I Part 1 & 2 3

ENS 1026A/B Adelaide Voices I Part 1 & 2 3

ENS 1027A/B Bella Voce I Part 1 & 2 3

Woodwind:

ENS 1009A/B Elder Conservatorium Symphony Orchestra I Part 1 & 2 3

or

ENS 1010A/B Elder Conservatorium Wind Ensemble I Part 1 & 2 3

Level II

MUSCORE 2001 Music in Context IIA: Polyphony & Harmony 3

MUSCORE 2002 Music in Context IIB: Nineteenth Century Music 3

and

PERF 2500A/B Classical Performance II Part 1 & 2 9

and an Ensemble from one of the following:

ENS 2001A/B A Kind of Blue II Part 1 & 2 3

ENS 2002A/B Adelaide Connection II Part 1 & 2 3

ENS 2009A/B Elder Conservatorium Symphony Orchestra II Part 1 & 2 3

ENS 2010A/B Elder Conservatorium Wind Ensemble II Part 1 & 2	3
ENS 2025A/B Elder Conservatorium Chorale II Part 1 & 2	3
ENS 2026A/B Adelaide Voices II Part 1 & 2	3
ENS 2027A/B Bella Voce II Part 1 & 2	3
and specialist requirements as listed below:	
Brass:	
ENS 2009A/B Elder Conservatorium Symphony Orchestra II Part 1 & 2	3
or	
ENS 2010A/B Elder Conservatorium Wind Ensemble II Part 1 & 2	3
Keyboard:	
PERF 2001A/B Accompanying II Part 1 & 2	3
Percussion:	
ENS 2017A/B Percussion Ensemble II Part 1 & 2	3
and	
ENS 2009A/B Elder Conservatorium Symphony Orchestra II Part 1 & 2	3
or	
ENS 2010A/B Elder Conservatorium Wind Ensemble II Part 1 & 2	3
Strings:	
ENS 2009A/B Elder Conservatorium Symphony Orchestra II Part 1 & 2	3
ENS 2030 Chamber Music IIA	1.5
ENS 2031 Chamber Music IIB	1.5
Voice:	
PERF 2003A/B Stagecraft II Part 1 & 2	3
PERF 2004A/B Voice Practicum II Part 1 & 2	3
and one of:	
ENS 2025A/B Elder Conservatorium Chorale II Part 1 & 2	3
ENS 2026A/B Adelaide Voices II Part 1 & 2	3
ENS 2027A/B Bella Voce II Part 1 & 2	3
Woodwind:	
ENS 2009A/B Conservatorium School Symphony Orchestra II Part 1 & 2	3
or	
ENS 2010A/B Elder Conservatorium Wind Ensemble II Part 1 & 2	3
and	
ENS 2030 Chamber Music IIA	1.5
ENS 2031 Chamber Music IIB	1.5

and Electives selected from clause 6.1.2.3 to complete a full load of 24 units.

Level III

MUSCORE 3001 Music Since 1900	3
MUSCORE 3004 Music & Music Making in the Australian Context III	3
and	
PERF 3500A/B Classical Performance III Part 1 & 2	9
and an Ensemble from one of the following unless specified otherwise in the Specialist Requirements:	
ENS 3001A/B A Kind of Blue III Part 1 & 2	3
ENS 3002A/B Adelaide Connection III Part 1 & 2	3
ENS 3009A/B Elder Conservatorium Symphony Orchestra III Part 1 & 2	3
ENS 3010A/B Elder Conservatorium Wind Ensemble III Part 1 & 2	3
ENS 3025A/B Elder Conservatorium Chorale III Part 1 & 2	3
ENS 3026A/B Adelaide Voices III Part 1 & 2	3
ENS 3027A/B Bella Voce III Part 1 & 2	3
and specialist requirements as specified:	
Brass:	
ENS 3009A/B Elder Conservatorium Symphony Orchestra III Part 1 & 2	3
or	
ENS 3010A/B Elder Conservatorium Wind Ensemble III Part 1 & 2	3
Keyboard:	
ENS 3030 Chamber Music IIIA	1.5
ENS 3031 Chamber Music IIIB	1.5
PERF 3010 Accompanying III	3
or	
another course from clause 6.1.2.3 of 3 units	
Percussion:	
ENS 3017A/B Percussion Ensemble III Part 1 & 2	3
and	
ENS 3009A/B Elder Conservatorium Symphony Orchestra III Part 1 & 2	3
or	
ENS 3010A/B Elder Conservatorium Wind Ensemble III Part 1 & 2	3

Strings:

ENS 3009A/B Elder Conservatorium Symphony Orchestra II Part 1 & 2	3
and	
ENS 3030 Chamber Music IIIA	1.5
ENS 3031 Chamber Music IIIB	1.5

Voice:

PERF 3003A/B Stagecraft III Part 1 & 2	3
PERF 3004A/B Voice Practicum III Part 1 & 2	3
and one of:	
ENS 3025A/B Elder Conservatorium Chorale III Part 1 & 2	3
ENS 3026A/B Adelaide Voices III Part 1 & 2	3
ENS 3027A/B Bella Voce III Part 1 & 2	3

Woodwind:

ENS 3009A/B Elder Conservatorium Symphony Orchestra III Part 1 & 2	3
or	
ENS 3010A/B Elder Conservatorium Wind Ensemble III Part 1 & 2	3
and	
ENS 3030 Chamber Music IIIA	1.5
ENS 3031 Chamber Music IIIB	1.5

and Electives selected from Clause 6.1.2.3 to complete a full load of 24 units.

6.1.2.2 Jazz

Candidates shall satisfactorily complete the following courses:

Level I

JAZZ 1000A/B Jazz Performance I Part 1 & 2	9
JAZZ 1003A/B Jazz Improvisation I Part 1 & 2	3
MUSCORE 1005 Music Foundations I: Jazz	3
MUSCORE 1006 Music in Context I: Jazz	3
and an Ensemble from one of the following:	
ENS 1001A/B A Kind of Blue I Part 1 & 2	3
ENS 1002A/B Adelaide Connection I Part 1 & 2	3
ENS 1004A/B Big Band One I Part 1 & 2	3
ENS 1005A/B Big Band Two I Part 1 & 2	3
ENS 1006A/B Big Band Three I Part 1 & 2	3
ENS 1010A/B Elder Conservatorium Wind Ensemble I Part 1 & 2	3
ENS 1011A/B Jazz Guitar Band One I Part 1 & 2	3
ENS 1012A/B Jazz Guitar Band Two I Part 1 & 2	3
and	
an Elective from clause 6.1.2.3 of 3 units	

Note: An elective from Clause 6.1.2.3 may be presented in lieu of a large Jazz Ensemble when an Ensemble is unavailable.

Level II

JAZZ 2000A/B Jazz Performance II Part 1 & 2	9
JAZZ 2006A/B Jazz Improvisation II Part 1 & 2	3
JAZZ 2007A/B Jazz Arranging Class II Part 1 & 2	3
MUSCORE 2003 Music in Context IIA: Jazz	3
MUSCORE 2004 Music in Context IIB: Jazz	3
and an Ensemble from one of the following:	
ENS 2001A/B A Kind of Blue II Part 1 & 2	3
ENS 2002A/B Adelaide Connection II Part 1 & 2	3
ENS 2004A/B Big Band One II Part 1 & 2	3
ENS 2005A/B Big Band Two II Part 1 & 2	3
ENS 2006A/B Big Band Three II Part 1 & 2	3
ENS 2011A/B Jazz Guitar Band One II Part 1 & 2	3
ENS 2012A/B Jazz Guitar Band Two II Part 1 & 2	3

Note: An elective from Clause 6.1.2.3 may be presented in lieu of a large Jazz Ensemble when an Ensemble is unavailable.

Level III

JAZZ 3000A/B Jazz Performance III Part 1 & 2	9
JAZZ 3005A/B Jazz Improvisation III Part 1 & 2	3
MUSCORE 3002 Music in Context IIIA: Jazz	3
MUSCORE 3003 Music in Context IIIB: Jazz	3
and an Ensemble from one of the following:	
ENS 3001A/B A Kind of Blue III Part 1 & 2	3
ENS 3002A/B Adelaide Connection III Part 1 & 2	3
ENS 3004A/B Big Band One III Part 1 & 2	3
ENS 3005A/B Big Band Two III Part 1 & 2	3
ENS 3006A/B Big Band Three III Part 1 & 2	3
ENS 3011A/B Jazz Guitar Band One III Part 1 & 2	3
ENS 3012A/B Jazz Guitar Band Two III Part 1 & 2	3
and Electives selected from clause 6.1.2.3 to complete a full load of 24 units	

Note: An elective from Clause 6.1.2.3 may be presented in lieu of a large Jazz Ensemble when an Ensemble is unavailable.

6.1.2.3 Electives

ENS 1001A/B A Kind of Blue I Part 1 & 2	3
ENS 1002A/B Adelaide Connection I Part 1 & 2	3
ENS 1004A/B Big Band One I Part 1 & 2	3
ENS 1005A/B Big Band Two I Part 1 & 2	3
ENS 1006A/B Big Band Three I Part 1 & 2	3

ENS 1009A/B Elder Conservatorium Symphony Orchestra I Part 1 & 2	3
ENS 1010A/B Elder Conservatorium Wind Ensemble I Part 1 & 2	3
ENS 111A/B Jazz Guitar Band One I Part 1 & 2	3
ENS 1012A/B Jazz Guitar Band Two I Part 1 & 2	3
ENS 1023A/B Chamber Orchestra I Part 1 & 2	3
ENS 1025A/B Elder Conservatorium Chorale I Part 1 & 2	3
ENS 1026A/B Adelaide Voices I Part 1 & 2	3
ENS 1027A/B Bella Voce I Part 1 & 2	3
ENS 1030 Chamber Music IA	1.5
ENS 1031 Chamber Music IB	1.5
ENS 2001A/B A Kind of Blue II Part 1 & 2	3
ENS 2002A/B Adelaide Connection II Part 1 & 2	3
ENS 2004A/B Big Band One II Part 1 & 2	3
ENS 2005A/B Big Band Two II Part 1 & 2	3
ENS 2006A/B Big Band Three II Part 1 & 2	3
ENS 2009A/B Elder Conservatorium Symphony Orchestra II Part 1 & 2	3
ENS 2010A/B Elder Conservatorium Wind Ensemble II Part 1 & 2	3
ENS 2011A/B Jazz Guitar Band One II Part 1 & 2	3
ENS 2012A/B Jazz Guitar Band Two II Part 1 & 2	3
ENS 2023A/B Chamber Orchestra II Part 1 & 2	3
ENS 2025A/B Elder Conservatorium Chorale II Part 1 & 2	3
ENS 2026A/B Adelaide Voices II Part 1 & 2	3
ENS 2027A/B Bella Voce II Part 1 & 2	3
ENS 2030 Chamber Music IIA	1.5
ENS 2031 Chamber Music IIB	1.5
ENS 3001A/B A Kind of Blue III Part 1 & 2	3
ENS 3002A/B Adelaide Connection III Part 1 & 2	3
ENS 3004A/B Big Band One III Part 1 & 2	3
ENS 3005A/B Big Band Two III Part 1 & 2	3
ENS 3006A/B Big Band Three III Part 1 & 2	3
ENS 3009A/B Elder Conservatorium Symphony Orchestra III Part 1 & 2	3
ENS 3010A/B Elder Conservatorium Wind Ensemble III Part 1 & 2	3
ENS 3011A/B Jazz Guitar Band One III Part 1 & 2	3
ENS 3012A/B Jazz Guitar Band Two III Part 1 & 2	3
ENS 3023A/B Chamber Orchestra III Part 1 & 2	3
ENS 3025A/B Elder Conservatorium Chorale III Part 1 & 2	3
ENS 3026A/B Adelaide Voices III Part 1 & 2	3
ENS 3027A/B Bella Voce III Part 1 & 2	3
ENS 3030 Chamber Music IIIA	1.5
ENS 3031 Chamber Music IIIB	1.5
EUST 2011 Opera as Idea & Ideal II	4
EUST 3011 Opera as Idea & Ideal II	6
GENMUS 1003 Musics of the World I	3
GENMUS 1006 Blues All Around My Head I	3
GENMUS 1010A/B Studies in Composition I Part 1 & 2	3
GENMUS 2003 Instrumental Music Pedagogy II	3
GENMUS 2005 Music, Media and Contemporary Society II	3
GENMUS 2006 Orchestration II	3
GENMUS 2010A/B Studies in Composition II Part 1 & 2	3
GENMUS 2023 Conducting IIA	1.5
GENMUS 2024 Conducting IIB	1.5
GENMUS 3003 Instrumental Music Pedagogy III	3
GENMUS 3005 Music, Media and Contemporary Society IIIA	3
GENMUS 3010A/B Studies in Composition III Part 1 & 2	3
GENMUS 3023 Conducting IIIA	1.5
GENMUS 3024 Conducting IIB	1.5
MUSCORE 1001 Approaches to Music I	3
MUSCORE 1002 Concepts in Composition I	3
MUSCORE 1003 Music Foundations I: Classical	3
MUSCORE 1004 Music in Context I: Tonality & Form in Western Music	3
MUSCORE 1005 Music Foundations I: Jazz	3
MUSCORE 1006 Music in Context I: Jazz	3
MUSCORE 2001 Music in Context IIA: Polyphony & Harmony	3
MUSCORE 2002 Music in Context IIB: Nineteenth Century Music	3
MUSCORE 2003 Music in Context IIA: Jazz	3
MUSCORE 2004 Music in Context IIB: Jazz	3
MUSCORE 3001 Music in Context III: Music Since 1900	3
MUSCORE 3002 Music in Context IIIA: Jazz	3
MUSCORE 3003 Music in Context IIIB: Jazz	3
MUSCORE 3004 Music & Music Making in the Australian Context III	3
MUSST 2001 Approaches to Music IIA	3
MUSST 2002 Approaches to Music IIB	3
MUSST 3001 Approaches to Music III	3

MUSST 3002 Advanced Music Seminar IIIA	3
MUSST 3003 Advanced Music Seminar IIIB	3
MUSST 3005 Foundation for Honours III: Music Studies	3
MUSST 3010 Studies in Japanese Music III	3
MUSST 3011 Pathfinders in American Music III	3
MUSTECH 1001 Practical Study IA: Music Technology	3
MUSTECH 1002 Practical Study IB: Music Technology	3
MUSTECH 2001 Practical Study IIA: Music Technology	3
MUSTECH 2002 Practical Study IIB: Music Technology	3
MUSTECH 3001 Practical Study IIIA: Music Technology	3
MUSTECH 3002 Practical Study IIIB: Music Technology	3
PERF 1002A/B Keyboard Musicianship I Part 1 & 2	3
PERF 2003A/B Stagecraft II	3

6.1.3 No candidate will be permitted to count towards an award any course, together with any other course, which, in the opinion of the Faculty concerned, contains a substantial amount of the same material; and no course or portion of a course may be counted twice towards an award. A list of unacceptable course combinations is available from The Elder School of Music Office.

6.1.4 Subject to Chapter 89 of the Statutes, candidates who have satisfied the requirements for any award of the University shall be admitted to that award at a graduation ceremony for the purpose.

Notes (not forming part of the Academic Program Rules)

1 Work required to complete the Bachelor degree

To qualify for the award of the degree of Bachelor of Music a candidate granted status (see relevant section under Student Related Polices in Student Guide 2003) must, except in special cases approved by the School, complete all the work of the final Level of the prescribed program while attending the University.

2 Availability of courses and options:

The School reserves the right not to offer certain courses in any particular year. Decisions on which courses are to be offered will be determined partly by the availability of relevant staff members and partly by the numbers of students who enrol in a course or option. If the numbers are less than forty then the course might not be offered.

3 Candidates undertaking study for the programs of Bachelor of Music and Bachelor of Arts concurrently:

Candidates may enrol for the programs of Bachelor of Music and Bachelor of Arts concurrently if they apply for admission and are admitted to both programs.

Candidates already enrolled for the degree of Bachelor of Music wishing to proceed to the degrees of B.Mus. and B.A. concurrently may apply towards the end of their first year in the School for admission to the B.A. program in the following year.

The School advises:

(1) The combined program takes five years of full-time study.

(2) All of the requirements of the Bachelor of Music program must be completed, together with courses taken from the Academic Program Rules of the degree of Bachelor of Arts. The minimum Arts requirements to be satisfied are:

Level I courses to the minimum value of 12 units

Level II courses to the minimum value of 12 units

Level III courses to the minimum value of 24 units

Candidates must complete all of the Level III requirements in accordance with Academic Program Rule 5.6.9 of the degree of Bachelor of Arts.

(3) The attention of candidates is drawn to the Academic Program Rules of the degree of Bachelor of Arts. No course may be counted twice towards the degree and two courses which contain a substantial amount of the same material may not both be counted.

(4) Candidates should have continuous enrolment in their instrumental or vocal studies. The attention of candidates is drawn to Academic Program Rule 4.

(5) Candidates should complete lower level prerequisites before commencing higher level courses.

(6) Candidates should submit their proposed programs of study in the combined program to the School for approval.

(7) Candidates should note that an enrolment in courses exceeding a total value of 24 units per year will result in a program overload. Candidates should be aware of the full implications of their choice to take a program overload.

4 Changing specialisation:

Students may change specialisation by auditioning for the relevant specialisation. Students should apply to the School Registrar. Applications to change specialisation are subject to the approval of the Dean or Nominee of the Dean.

6.2 Academic program: Bachelor of Music Education

6.2.1 The program for the degree of Bachelor of Music Education may be taken with a Practical Study in Performance or in Composition or in Music Technology from Level II in conjunction with studies in Music Education.

6.2.2 To qualify for the Bachelor degree a candidate shall satisfactorily complete the requirements for courses listed below and those courses listed in 6.1.2.3. Courses to a total value of 96 units must be presented. At least 18 units shall comprise Level IV courses. No student shall gain credit for a course more than once.

6.2.2.1 Music Education

Candidates shall satisfactorily complete the following:

Level I

either

1 the requirements of Level I of clause 6.1.2.1 or 6.1.2.2 of the degree of Bachelor of Music *or*

2 the requirements of Level I of clause 6.3.2.1 or 6.3.2.2 or 6.3.2.3 of the degree of Bachelor of Music Studies before proceeding to Level II.

Level II

MUSED 2001 Music Education IIA	3
MUSED 2002 Music Education IIB	3
MUSED 2003A/B Music Education Ensembles II Part 1 & 2	3
and either	
MUSCORE 2001 Music in Context IIA: Polyphony & Harmony	3
MUSCORE 2002 Music in Context IIB: Nineteenth Century Music	3
or	
MUSCORE 2003 Music in Context IIA: Jazz	3
MUSCORE 2004 Music in Context IIB: Jazz	3
and	
COMP 2500A/B Practical Study II: Composition Part 1 & 2	6
or	
MUSTECH 2001 Practical Study IIA: Music Technology	3
and	
MUSTECH 2002 Practical Study IIB: Music Technology	3
or	
PERF 2600A/B Practical Study II: Performance Part 1 & 2	6
or	
JAZZ 2600A/B Practical Study II: Jazz Part 1 & 2	6
and Electives selected from clause 6.1.2.3 to complete a full load of 24 units.	

Level III

MUSED 3001 Music Education IIIA	3
MUSED 3002 Music Education IIIB	3
MUSED 3003A/B Music Education Ensembles III Part 1 & 2	3
MUSED 3004 Music Education Practicum III	3
and either	
MUSCORE 3001 Music in Context: Music Since 1900	3
or	
MUSCORE 3002 Music in Context IIIA: Jazz	3
or	
MUSCORE 3003 Music in Context IIIB: Jazz	3
and	
COMP 3500A/B Practical Study III: Composition Part 1 & 2	6
or	
MUSTECH 3001 Practical Study IIIA: Music Technology	3
and	
MUSTECH 3002 Practical Study IIIB: Music Technology	3
or	
PERF 3600A/B Practical Study III: Performance Part 1 & 2	6
or	
JAZZ 3600A/B Practical Study III: Jazz Part 1 & 2	6
or	
Elective courses from other schools to the value of 6 points	
and	
Electives selected from clause 6.1.2.3 to complete a full load of 24 units.	

Level IV

EDUC 4700 Families,Schools & Students' Outcomes (UG)	2
EDUC 4701 Educational Psychology A (UG)	2
EDUC 4702 Teaching Practice I (UG)	3
EDUC 4703 Teaching Practice II (UG)	3
EDUC 4704 Curriculum Frameworks (UG)	2
EDUC 4705 Curriculum Perspectives (UG)	2
EDUC 4706 Educational Psychology B (UG)	2
EDUC 4707 Culture, Education and Society (UG)	2
MUSED 4001A/B Music Education IV Part 1 & 2	3
Elective	3

6.2.3 No candidate will be permitted to count towards an award any course, together with any other course, which, in the opinion of the Faculty concerned, contains a substantial amount of the same material; and no course or portion of a course may be counted twice towards an award. A list of unacceptable course combinations is available from The Elder School of Music Office.

6.2.4. Subject to Chapter 89 of the Statutes, candidates who have satisfied the requirements for any award of the University shall be admitted to that award at a graduation ceremony for the purpose.

Notes (not forming part of the Academic Program Rules)

1 Work required to complete the Bachelor degree

To qualify for the award of the degree of Bachelor of Music Education a candidate granted status (see relevant section under Student Related Polices in Student Guide 2003) must, except in special cases approved by the School, complete all the work of the final level of the prescribed program while attending the University.

2 Availability of courses and options:

The School reserves the right not to offer certain courses in any particular year. Decisions on which courses are to be offered will be determined partly by the availability of relevant staff members and partly by the numbers of students who enrol in a course or option. If the numbers are less than forty then the course might not be offered.

3 Candidates undertaking study for the programs of Bachelor of Music Education and Bachelor of Arts concurrently:

Candidates may enrol for the programs of Bachelor of Music Education and Bachelor of Arts concurrently if they apply for admission and are admitted to both programs.

Candidates already enrolled for the degree of Bachelor of Music Education wishing to proceed to the degrees of B.Mus.Ed. and B.A. concurrently may apply towards the end of their first year in the School for admission to the B.A. program the following year.

The School advises:

(1) The combined program takes six years of full-time study.

(2) All of the requirements of the Bachelor of Music Education program must be completed, together with courses taken from the Academic Program Rules of the degree of Bachelor of Arts. The minimum Arts requirements to be satisfied are:

Level I course to the minimum value of 12 units

Level II courses to the minimum value of 12 units

Level III courses to the minimum value of 24 units.

Candidates must complete all of the Level III requirements in accordance with Academic Program Rule 5.6.9 of the degree of Bachelor of Arts.

(3) The attention of candidates is drawn to the Academic Program Rules of the degree of Bachelor of Arts. No course may be counted twice towards the degree and two courses which contain a substantial amount of the same material may not both be counted.

(4) Candidates should have continuous enrolment in their instrumental or vocal studies. The attention of candidates is drawn to Academic Program Rule 4.

(5) Candidates should complete lower level prerequisites before commencing higher level courses.

(6) Candidates should submit their proposed program of study in the combined program to the School for approval.

(7) Candidates should note that an enrolment in courses exceeding a total value of 24 units per year will result in a program overload. Candidates should be aware of the full implications of their choice to take a program overload.

4 **Changing specialisation:**

Students may change specialisation by auditioning for the relevant specialisation. Students should apply to the School Registrar. Applications to change specialisation are subject to the approval of the Dean or Nominee of the Dean of School

6.3 Academic program: Bachelor of Music Studies

6.3.1 The program for the degree of Bachelor of Music Studies may be taken with a Practical Study in Performance on an instrument or voice, or in Composition or in Music Technology.

6.3.2 To qualify for the Bachelor degree a candidate shall satisfactorily complete the requirements for courses listed below and those courses listed in any one of 6.3.2.1 to 6.3.2.3. Courses to a total value of 72 units must be presented. At least 20 units shall comprise Level III courses. No student shall gain credit for a course more than once.

6.3.2.1 Practical Study: Composition

Candidates shall satisfactorily complete the following courses:

Level I

COMP 1500A/B Practical Study I: Composition Part 1 & 2 6

GENMUS 1003 Musics of the World I 3

MUSCORE 1001 Approaches to Music I 3

MUSCORE 1002 Concepts of Composition I 3

MUSCORE 1003 Music Foundations I: Classical 3

and

MUSCORE 1004 Music in Context I: Tonality & Form in Western Music 3

or

MUSCORE 1005 Music Foundations I: Jazz 3

and

MUSCORE 1006 Music in Context I: Jazz 3

and Electives selected from clause 6.1.2.3 to complete a full load of 24 units.

Level II

COMP 2500A/B Practical Study II: Composition Part 1 & 2 6

MUSST 2001 Approaches to Music IIA 3

MUSST 2002 Approaches to Music IIB 3

and either

MUSCORE 2001 Music in Context IIA: Polyphony & Harmony 3

MUSCORE 2002 Music in Context IIB: Nineteenth Century Music 3

or

MUSCORE 2003 Music in Context IIA: Jazz 3

MUSCORE 2004 Music in Context IIB: Jazz 3

and Electives selected from clause 6.1.2.3 to complete a full load of 24 units.

Level III

COMP 3500A/B Practical Study III: Composition Part 1 & 2 6

MUSCORE 3004 Music & Music Making in the Australian Context III 3

MUSST 3001 Approaches to Music III 3

and either

MUSCORE 3001 Music in Context III: Music Since 1900 3

or

MUSCORE 3002 Music in Context IIIA: Jazz 3

and Electives selected from clause 6.1.2.3 to complete a full load of 24 units.

6.3.2.2 Practical Study: Performance

Level I

GENMUS 1003 Musics of the World I	3
MUSCORE 1001 Approaches to Music I	3
MUSCORE 1002 Concepts of Composition I	3
MUSCORE 1003 Music Foundations I: Classical	3
and	
MUSCORE 1004 Music in Context I: Tonality & Form in Western Music	3
or	
MUSCORE 1005 Music Foundations I: Jazz	3
and	
MUSCORE 1006 Music in Context I: Jazz	3
and	
PERF 1600A/B Practical Study I: Performance Part 1 & 2	6

and Electives selected from clause 6.1.2.3 to complete a full load of 24 units.

Level II

MUSST 2001 Approaches to Music IIA	3
MUSST 2002 Approaches to Music IIB	3
and either	
MUSCORE 2001 Music in Context IIA: Polyphony & Harmony	3
MUSCORE 2002 Music in Context IIB: Nineteenth Century Music	3
or	
MUSCORE 2003 Music in Context IIA: Jazz	3
MUSCORE 2004 Music in Context IIB: Jazz	3
and	
PERF 2600A/B Practical Study II: Performance Part 1 & 2	6

and/or Electives selected from clause 6.1.2.3 to complete a full load of 24 units.

Level III

MUSCORE 3004 Music & Music Making in the Australian Context III	3
MUSST 3001 Approaches to Music III	3
and either	
MUSCORE 3001 Music in Context III: Music Since 1900	3
or	
MUSCORE 3002 Music in Context IIIA: Jazz	3
and	
PERF 3600A/B Practical Study III: Performance Part 1 & 2	6

and/or Electives selected from clause 6.1.2.3 to complete a full load of 24 units.

6.3.2.3 Practical Study: Music Technology

Candidates shall satisfactorily complete the following courses:

Level I

GENMUS 1003 Musics of the World I	3
MUSCORE 1001 Approaches to Music I	3
MUSCORE 1002 Concepts of Composition I	3
MUSTECH 1001 Practical Study IA: Music Technology	3
MUSTECH 1002 Practical Study IB: Music Technology	3
and	
MUSCORE 1003 Music Foundations I: Classical	3
and	
MUSCORE 1004 Music in Context I: Tonality & Form in Western Music	3
or	
MUSCORE 1005 Music Foundations I: Jazz	3
and	
MUSCORE 1006 Music in Context I: Jazz	3

and Electives selected from clause 6.1.2.3 to complete a full load of 24 units.

Level II

MUSST 2001 Approaches to Music IIA	3
MUSST 2002 Approaches to Music IIB	3
MUSTECH 2001 Practical Study IIA: Music Technology	3
MUSTECH 2002 Practical Study IIB: Music Technology	3
and either	
MUSCORE 2001 Music in Context IIA: Polyphony & Harmony	3
and	
MUSCORE 2002 Music in Context IIB: Nineteenth Century Music	3
or	
MUSCORE 2003 Music in Context IIA: Jazz	3
and	
MUSCORE 2004 Music in Context IIB: Jazz	3

and Electives selected from clause 6.1.2.3 to complete a full load of 24 units.

Level III

MUSCORE 3004 Music & Music Making in the Australian Context III	3

MUSST 3001 Approaches to Music III 3

MUSTECH 3001 Practical Study IIIA: Music Technology 3

MUSTECH 3002 Practical Study IIIB: Music Technology 3

and either

MUSCORE 3001 Music in Context III: Music Since 1900 3

or

MUSCORE 3002 Music in Context IIIA: Jazz 3

and Electives selected from clause 6.1.2.3 to complete a full load of 24 units.

6.3.3 No candidate will be permitted to count towards an award any course, together with any other course, which, in the opinion of the Faculty concerned, contains a substantial amount of the same material; and no course or portion of a course may be counted twice towards an award. A list of unacceptable course combinations is available from The Elder School of Music Office.

6.3.4 Subject to Chapter 89 of the Statutes, candidates who have satisfied the requirements for any award of the University shall be admitted to that award at a graduation ceremony for the purpose.

Notes (not forming part of the Academic Program Rules)

1 Work required to complete the Bachelor degree

To qualify for the award of the degree of Bachelor of Music Studies a candidate granted status (see relevant section under Student Related Polices in Student Guide 2003) must, except in special cases approved by the School, complete all the work of the final level of the prescribed program while attending the University.

2 Availability of courses and options:

The School reserves the right not to offer certain courses in any particular year. Decisions on which courses are to be offered will be determined partly by the availability of relevant staff members and partly by the numbers of students who enrol in a course or option. If the numbers are less than forty then the course might not be offered.

3 Candidates undertaking study for the programs of Bachelor of Music Studies and Bachelor of Arts concurrently:

Candidates may enrol for the programs of Bachelor of Music Studies and Bachelor of Arts concurrently if they apply for admission and are admitted to both programs.

Candidates already enrolled for the degree of Bachelor of Music Studies) wishing to proceed to the degrees of B.Mus.St. and B.A. concurrently may apply towards the end of their first year in the School for admission to the B.A. program the following year.

The School advises:

(1) The combined program takes five years of full-time study.

(2) All of the requirements of the Bachelor of Music Studies program must be completed, together with courses taken from the Academic Program Rules of the degree of Bachelor of Arts. The minimum Arts requirements to be satisfied are:

Level I course to the minimum value of 12 units

Level II courses to the minimum value of 12 units

Level III courses to the minimum value of 24 units

Candidates must complete all of the Level III requirements in accordance with Academic Program Rule 5.6.9 of the degree of Bachelor of Arts

(3) The attention of candidates is drawn to the Academic Program Rules of the degree of Bachelor of Arts. No course may be counted twice towards the degree and two courses which contain a substantial amount of the same material may not both be counted.

(4) Candidates should have continuous enrolment in their instrumental or vocal studies. The attention of candidates is drawn to Academic Program Rule 4.

(5) Candidates should complete lower level prerequisites before commencing higher level courses.

(6) Candidates should submit their proposed program of study in the combined program to the School for approval.

(7) Candidates should note that an enrolment in courses exceeding a total value of 24 units per year will result in a program overload. Candidates should be aware of the full implications of their choice to take a program overload.

4 Changing specialisation:

Students may change specialisation by auditioning for the relevant specialisation. Students should apply to the School Registrar. Applications to change specialisation are subject to the approval of the Dean or Nominee of the Dean of School.

6.4 Academic program: The Honours degree of Bachelor of Music

6.4.1 To qualify for the Honours degree a candidate shall complete the requirements for the Bachelor degree and comply with the provisions of Academic Program Rule 6.4.

6.4.2 To qualify for the Honours degree a candidate shall satisfactorily complete PERF 4005A/B Honours Performance Part 1 & 2 or PERF 4006A/B Honours Music Pedagogy Part 1 & 2.

6.4.3 In special circumstances this course may be taken in combination with other Honours courses approved by the School. The combination shall include such parts as shall, when combined, be deemed by the School to be equivalent to one course.

6.4.4 No candidate will be permitted to count towards an award any course, together with any other course, which, in the opinion of the Faculty concerned, contains a substantial amount of the same material; and no course or portion of a course may be counted twice towards an award. A list of unacceptable course combinations is available from The Elder School of Music Office.

6.4.5 Subject to Chapter 89 of the Statutes, candidates who have satisfied the requirements for any award of the University shall be admitted to that award at a graduation ceremony for the purpose.

6.5 Academic program: The Honours degree of Bachelor of Music Education

6.5.1 To qualify for the Honours degree a candidate shall complete the requirements for the Bachelor degree and comply with the provisions of Academic Program Rule 6.5.

6.5.2 To qualify for the Honours degree a candidate shall satisfactorily complete MUSICED 4006A/B Honours Music Education Part 1 & 2

6.5.3 In special circumstances this course may be taken in combination with other courses approved by the School. The combination shall include such parts as shall, when combined, be deemed by the School to be equivalent to one course.

6.5.4 No candidate will be permitted to count towards an award any course, together with any other course, which, in the opinion of the Faculty concerned, contains a substantial amount of the same material; and no course or portion of a course may be counted twice towards an award. A list of unacceptable course combinations is available from The Elder School of Music Office.

6.5.5 Subject to Chapter 89 of the Statutes, candidates who have satisfied the requirements for any award of the University shall be admitted to that award at a graduation ceremony for the purpose.

6.6 Academic program: The Honours degree of Bachelor of Music Studies

6.6.1 To qualify for the Honours degree a candidate shall complete the requirements for the Bachelor degree and comply with the provisions of Academic Program Rule 6.6.

6.6.2 To qualify for the Honours degree a candidate shall satisfactorily complete one of the following Honours courses:

ETHNO 4003A/B Honours Ethnomusicology (B.Mus.) Part 1 & 2

MUSCOMP 4010A/B Honours Composition Part 1 & 2

MUSICOL 4011A/B Honours Musicology (B.Mus.) Part 1 & 2

MUSTECH 4001A/B Honours Music Technology Part 1 & 2

6.6.3 In special circumstances this course may be taken in combination with other Honours courses approved by the School. The combination shall include such parts as shall, when combined, be deemed by the School to be equivalent to one course.

6.6.4 No candidate will be permitted to count towards an award any course, together with any other course, which, in the opinion of the Faculty concerned, contains a substantial amount of the same material; and no course or portion of a course may be counted twice towards an award. A list of unacceptable course combinations is available from The Elder School of Music Office.

6.6.5 Subject to Chapter 89 of the Statutes, candidates who have satisfied the requirements for any award of the University shall be admitted to that award at a graduation ceremony for the purpose.

7. External Performances/Engagements

Students are encouraged to take outside engagements, provided that:

(a) a student shall not take part in any public concert or engagement that prohibits the student from attending a scheduled lesson or class except by permission of the Dean.

(b) The Dean reserves the right to determine whether or not a student shall be required to acknowledge the name of the School or its staff, at any public concert or engagement in which the student participates.

8 Special circumstances

When in the opinion of the relevant Faculty special circumstances exist, the Council, on the recommendation of the Faculty in each case, may vary any of the provisions of the Academic Program Rules for any particular award.

Appendix A: Single Study Courses in the Elder School of Music

Rules

1 The Elder School of Music provides for the teaching and study of various branches of music as Single Study courses.

2 Before admission as a Single Study student, the intending student shall satisfy the Dean of his/her fitness to enter upon the course of study proposed, and shall be admitted irrespective of age or Year 12 status. Fitness to proceed will usually be determined by audition.

3 Students may take Single Study courses without proceeding to a degree or diploma and, subject to the approval of the Dean, they may attend class courses without enrolling in an individual course.

4 In commencing a program of Single Study tuition, a student shall:

(a) complete and sign a Single Study enrolment form

(b) pay such fees and charges (entrance fee, general service fee, tuition fee, consumables fee and late fee) in accordance with timelines approved by the Vice-Chancellor.

Single studies in music

5 The following Music courses will be offered:

(a) Principal Study Courses

Flute, oboe, clarinet, bassoon, horn, trumpet, trombone, tuba, percussion, harp, saxophone, violin, violoncello, double bass, voice, pianoforte, harpsichord, organ, guitar, recorder, composition and jazz instruments.

(b) Class Courses

Theory of music, history and literature of music, general musical knowledge, musical form and analysis, aural development, chamber music, orchestral and ensemble playing, choral singing, class teaching of practical courses, ethnomusicology, composition, electronic music and selected jazz theory courses.

6 The principal study courses will consist of 15 weekly 30 or 60 minute lessons per semester or 30 weekly 30 or 60 minutes lessons per year. The class courses will consist of 12 weekly lessons per semester or 24 classes per year.

7 At the end of the year, a student of a Single Study course may upon application in writing, receive a report on progress from the Dean.

8 Scholarships

(a) Auditions for Music Single Study scholarships offered by the Elder School of Music shall be held annually. Applications on forms available from the School Office must be lodged by the nominated closing date with payment of the prescribed entrance fee.

(b) Unless the rules of the scholarship concerned allow otherwise:

(i) Single Study scholarships shall be available only to Single Study students and shall be applied towards tuition in the individual course for which it is awarded.

(ii) The Single Study student shall pay the difference between the sum awarded and the fees due for tuition.

(c) A scholarship shall be awarded to the candidate who shows the greatest musical promise and not necessarily to the most advanced candidate at the audition. In most cases, preference will be given to singers who are aged eighteen years or over and, for major scholarships, to instrumentalists who are aged fifteen years or over.

(d) Each holder of a scholarship tenable for tuition shall take part in such concerts, classes and other activities as the Dean may require.

(e) If the holder of a scholarship tenable for more than one year fails to make satisfactory progress in the opinion of the Dean, the student shall thereupon forfeit the scholarship for the remainder of its term of award, unless the Council shall otherwise decide.

Single studies for international music students (SSIMS)

9 The School will offer Single Studies for International Music Students (SSIMS) to enable students to maintain performance skills whilst English language studies are undertaken or to continue performance studies while other tertiary studies are undertaken.

10 The following Music courses will be offered:

Principal Courses

Flute, oboe, clarinet, bassoon, horn, trumpet, trombone, tuba, percussion, harp, saxophone, violin, violoncello, double bass, voice, pianoforte, harpsichord, organ, guitar, recorder, composition and jazz instruments.

11 The principal study courses will consist of 15 weekly 30 or 60 minute lessons per semester or 30 weekly 30 or 60 minute lessons per year.

12 At the end of the year, a student of a Single Study course may upon application in writing, receive a report on progress from the Dean.

Bachelor of Music – Graduate Attributes

The Elder School of Music facilitates an environment in which graduates are encouraged to take personal responsibility for developing the following attributes:

- Knowledge and understanding of the structure of music and its role as an expressive tool.
- Knowledge, understanding and mastery of the elements of musical performance, encompassing technique, style, interpretation and communication.
- Knowledge, understanding and mastery of the conceptual and practical components of music.
- The ability to analyse and synthesise complex material.
- Confidence in the use of oral and written communication skills.
- A high level of self-awareness and critical judgement.
- An understanding of technology, its use in the profession and its role as a tool for education, communication and career development.
- An imaginative and creative approach to problem solving.
- Sensitivity to the contribution of others and the ability to function as part of a team.
- A clear understanding of the professional world and the standards required for professional work.
- The ability to locate information resources appropriate to independent, life long learning.
- A high level of independence and initiative and a desire for continued improvement in all aspects of professional endeavour.
- Flexibility to recognise and respond to a wide variety of professional opportunities and challenges.
- A high level of cultural awareness and sensitivity.
- Flexibility and agility of musical thought and judgement.
- Commitment to excellence and the striving towards the highest possible personal and professional standards.
- Commitment to ethical behaviour.
- Appreciation and encouragement of artistic and cultural diversity.

Bachelor of Music Education– Graduate Attributes

The Elder School of Music facilitates an environment in which graduates are encouraged to take personal responsibility for developing the following attributes:

- Knowledge and understanding of the breadth of music and its role as an expressive tool.
- Knowledge, understanding and mastery of the conceptual and practical components of music.
- Knowledge of the role of music in education and the principles of music learning and teaching.
- The ability to analyse and synthesise complex material.
- Proficiency in the use of oral and written communication skills and interpersonal skills, particularly as needed in the teaching profession.
- A high level of self-awareness and critical judgement.
- An understanding of technology and its use as a tool in music education.
- An imaginative and creative approach to problem solving.
- Leadership ability, sensitivity to others and the ability to function as part of a team.
- A clear understanding of the teaching profession.
- The ability to locate information resources relevant to independent, lifelong learning.
- A high level of independence and initiative and a desire for continued improvement in all aspects of professional endeavour.
- Flexibility to recognise and respond to a wide variety of professional opportunities and challenges.
- A high level of cultural awareness and sensitivity.
- Flexibility and agility of musical thought and judgement.
- Commitment to excellence and the striving towards the highest possible personal and professional standards.
- Commitment to ethical behaviour.
- Appreciation and encouragement of artistic and cultural diversity.

Bachelor of Music Studies – Graduate Attributes

The Elder School of Music facilitates an environment in which graduates are encouraged to take personal responsibility for developing the following attributes:

- Knowledge and understanding of the structure of music and its role as an expressive tool.
- Knowledge, understanding and mastery of the elements of musical performance or composition or music technology.
- Knowledge, understanding and mastery of the conceptual and practical components of music.
- The ability to analyse and synthesise complex material.
- Confidence in the use of oral and written communication skills.
- A high level of self-awareness and critical judgement.
- An understanding of technology, its use in the profession and its role as a tool for education, communication and career development.
- An imaginative and creative approach to problem solving.
- Sensitivity to the contribution of others and the ability to function as part of a team.
- A clear understanding of the professional world and the standards required for professional work.
- The ability to locate information resources appropriate to independent, life long learning.
- A high level of independence and initiative and a desire for continued improvement in all aspects of professional endeavour.
- Flexibility to recognise and respond to a wide variety of professional opportunities and challenges.
- A high level of cultural awareness and sensitivity.
- Flexibility and agility of musical thought and judgement.
- Commitment to excellence and the striving towards the highest possible personal and professional standards.
- Commitment to ethical behaviour.
- Appreciation and encouragement of artistic and cultural diversity.

Faculty of Sciences

Contents

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Diploma in Agricultural Production
Dip.A.P. 259

Diploma in Natural Resource Management
Dip.NR.Mgt 261

Diploma in Wine Marketing
Dip.Wine Mark 263

Bachelor of Agriculture
B.Ag. 265

Bachelor of Food Technology and Management
B.F.T.& M 268

Bachelor of Natural Resource Management
B.NR.Mgt. 270

Bachelor of Oenology
B.Oenol 273

Bachelor of Rural Enterprise Management
B.R.Ent.Mgt. 274

Bachelor of Science
B.Sc. 276

Bachelor of Science (Agricultural Science)
B.Sc.(Agric.Sc.) 283

Bachelor of Science (Animal Science)
B.Sc.(Animal Sc.) 285

Bachelor of Science (Biomedical Science)
B.Sc.(Biomed.Sc.) 287

Bachelor of Science (Biotechnology)
B.Sc.(Biotech.) 289

Bachelor of Science (Ecochemistry)
B.Sc.(Ecochem.) 291

Bachelor of Science (Evolutionary Biology)
B.Sc.(Evol.Biol.) 293

Bachelor of Science (High Performance Computational Physics)(Honours)
B.Sc.(High Perf.Comp.Phys.)(Hons.) ... 295

Bachelor of Science (Jurisprudence)
B.Sc.(Jur.) 297

Bachelor of Science (Molecular and Drug Design)
B.Sc.(Mol.& Drug Des.) 299

Bachelor of Science (Molecular Biology)
B.Sc.(Mol.Biol.) 301

Bachelor of Science (Nanoscience and Materials)
B.Sc.(Nanosc.& Mat..).....303

Bachelor of Science (Optics & Photonics)
B.Sc.(Optics & Photonics.).....304

Bachelor of Science (Space Science and Astrophysics)
B.Sc.(Space Sc.& Astrophysics) 306

Bachelor of Science (Sustainable Environments)
B.Sc.(Sustain.Env.).....308

Bachelor of Science (Viticulture)
B.Sc.(Viticult.).....311

Bachelor of Arts and Bachelor of Science
B.A./B.Sc 313

Bachelor of Wine Marketing
B.Wine.Mark. 314

Undergraduate awards in the Faculty of Sciences

- Diploma in Agricultural Production
- Diploma in Natural Resource Management
- Diploma in Wine Marketing
- Degree of Bachelor of Agricultural Science*
- Degree of Bachelor of Agricultural Science (Horticultural Science)*
- Degree of Bachelor of Agricultural Science (Integrated Pest Management)*
- Degree of Bachelor of Agricultural Science (Oenology)*
- Degree of Bachelor of Agricultural Science (Plant Breeding)*
- Degree of Bachelor of Agricultural Science (Viticultural Science)*
- Degree of Bachelor of Agriculture
- Degree of Bachelor of Environmental Science*
- Degree of Bachelor of Food Technology and Management
- Degree of Bachelor of Natural Resource Management
- Degree of Bachelor of Oenology *
- Degree of Bachelor of Rural Enterprise Management
- Degree of Bachelor of Science
- Degree of Bachelor of Science (Agricultural Science)
- Degree of Bachelor of Science (Animal Science)
- Degree of Bachelor of Science (Biomedical Science)
- Degree of Bachelor of Science (Biotechnology)
- Degree of Bachelor of Science (Ecochemistry)
- Degree of Bachelor of Science (Evolutionary Biology)
- Degree of Bachelor of Science (High Performance Computational Physics)(Honours)
- Degree of Bachelor of Science (Jurisprudence)
- Degree of Bachelor of Science (Molecular and Drug Design)
- Degree of Bachelor of Science (Molecular Biology)
- Degree of Bachelor of Science (Nanoscience and Materials)
- Degree of Bachelor of Science (Optics & Photonics)
- Degree of Bachelor of Science (Space Science & Astrophysics)
- Degree of Bachelor of Science (Sustainable Environments)
- Degree of Bachelor of Science (Viticulture)
- Degree of Bachelor of Arts and Bachelor of Science
- Degree of Bachelor of Wine Marketing

- Honours degree of Bachelor of Agricultural Science
- Honours degree of Bachelor of Agriculture
- Honours degree of Bachelor of Biotechnology
- Honours degree of Bachelor of Environmental Science
- Honours degree of Bachelor of Natural Resource Management
- Honours degree of Bachelor of Science
- Honours degree of Bachelor of Wine Marketing

* No intake into these programs in 2005.

Notes on Delegated Authority

1 Council has delegated the power to approve minor changes to the Academic Program Rules to the Executive Deans of Faculties.

2 Council has delegated the power to specify syllabuses to the Head of each department or centre concerned, such syllabuses to be subject to approval by the Faculty or by the Executive Dean on behalf of the Faculty. The Head of school or centre may approve minor changes to any previously approved syllabus.

Diploma in Agricultural Production

Academic Program Rules

1 Duration of program

The program of study for the diploma shall extend over two years of full-time study or the part-time equivalent

2 Admission

2.1 Particular requirements

For admission to the Diploma of Agricultural Production an applicant must hold a South Australian Class 1 Drivers Licence or interstate equivalent.

2.2 Status, exemption and credit transfer

2.2.1 Candidates who have previously passed courses in programs in the University or other tertiary educational institutions may, on written application to the Faculty, be granted such status in appropriate courses in the program for the degree of Diploma of Agricultural Production as the Faculty in each case may determine.

Proficiency status may be granted where the student demonstrates proficiency in the course matter of a course to the satisfaction of the Head of a School, who shall decide the method of assessment after consultation with the Course Coordinator.

Where a student has failed a course at the University of Adelaide or at the former Roseworthy Agricultural College he/she may not apply for proficiency status in the course in lieu of repeating it.

Where status has not been granted a student may request exemption from part of the course. The course coordinator will make all decisions on the granting of exemption.

2.2.2 Limits on the granting of status

Normally status will only be considered for courses passed within the previous ten years. Status may be granted on a course for course basis or on the basis of course for group of courses. Status will be granted only for courses which meet the academic requirements of the award towards which credit is sought.

Students must complete a minimum of 24 units towards the award, as defined in 4.1, at the University of Adelaide.

3 Assessment and examinations

3.1 (a) A candidate shall not be eligible to attend for examination unless written and laboratory or other practical work, where required, has been completed to the satisfaction of the teaching staff concerned

(b) In determining a candidate's final result in a course the assessors may take into account oral, written, practical or examination work, provided that the candidate has been given notice at the beginning of the course of the way in which the work will be taken into account and of its relative importance in the final result.

3.2 There shall be four classifications of pass in any course for the degrees, as follows: Pass with High Distinction, Pass with Distinction, Pass with Credit, Pass. In addition there shall be a classification of Conceded Pass up to a maximum value of 6 units provided such courses shall not satisfy prerequisite requirements.

3.3 (a) A candidate who fails to pass in a course or who obtains a conceded pass and who desires to take the course again shall, unless exempted wholly or partially therefrom by the Head of Department concerned, do written and laboratory or other work in that course to the satisfaction of the teaching staff concerned

(b) A candidate who has twice failed to obtain a Pass or higher in the examination in any course shall not enrol for the course again, or for any other course which in the opinion of the Faculty contains a substantial amount of the same material, except by permission of the Faculty and under such conditions as the Faculty may prescribe. For the purpose of this clause a candidate who fails to receive permission to sit for or does not attend the examination in any course after having attended substantially the full program of instruction in it, shall be deemed to have failed to pass the examination. A candidate who obtains a Pass only after being granted permission to enrol for the third time shall not take a course for which that Pass is a prerequisite, save in exceptional circumstances and with the permission of the Faculty.

4 Qualification Requirements

4.1 Academic program

For the award of Diploma in Agricultural Production a student shall complete all courses listed in the program of study for Level I and Level II of the Bachelor of Agriculture as specified under Academic Program Rule 5.2 for that program.

4.2 Unacceptable combinations of courses

No candidate will be permitted to count towards an award any course, together with any other course, which, in the opinion of the Faculty, contains a substantial amount of the same material, and no course or portion of a course may be counted twice towards an award.

4.3 Graduation

Subject to Chapter 89 of the Statutes, candidates who have satisfied the requirements for any award of the University shall be admitted to that award at a graduation ceremony for the purpose.

5 Special Circumstances

When in the opinion of the Faculty special circumstances exist, the Council, on the recommendation of the Faculty in each case, may vary any of the provisions of the Academic Program Rules for any particular award.

Diploma in Natural Resource Management

Academic Program Rules

1 Duration of Program

The program of study for the diploma shall extend over two years of full-time study or the part-time equivalent

2 Admission

2.1 Status, exemption and credit transfer

2.1.1 Candidates who have previously passed courses in programs in the University or other tertiary educational institutions may, on written application to the Faculty, be granted such status in appropriate courses in the program for the degree of Diploma in Natural Resource Management as the Faculty in each case may determine.

Proficiency status may be granted where the student demonstrates proficiency in the course matter of a course to the satisfaction of the Head of a School, who shall decide the method of assessment after consultation with the Course Coordinator.

Where a student has failed a course at the University of Adelaide or at the former Roseworthy Agricultural College he/she may not apply for proficiency status in the course in lieu of repeating it.

Where status has not been granted a student may request exemption from part of the course. The course coordinator will make all decisions on the granting of exemption.

2.1.2 Limits on the granting of status

Normally status will only be considered for courses passed within the previous ten years. Status may be granted on a course for course basis or on the basis of course for group of courses. Status will be granted only for courses which meet the academic requirements of the award towards which credit is sought.

Students must complete a minimum of 24 units towards the award, as defined in 4.1, at the University of Adelaide.

3 Assessment and examinations

3.1 (a) A candidate shall not be eligible to attend for examination unless written and laboratory or other practical work, where required, has been completed to the satisfaction of the teaching staff concerned

(b) In determining a candidate's final result in a course the assessors may take into account oral, written, practical or examination work, provided that the candidate has been given notice at the beginning of the course of the way in which the work will be taken into account and of its relative importance in the final result.

3.2 There shall be four classifications of pass in any course for the degrees, as follows: Pass with High Distinction, Pass with Distinction, Pass with Credit, Pass. In addition there shall be a classification of Conceded Pass up to a maximum value of 6 units provided such courses shall not satisfy prerequisite requirements.

3.3 (a) A candidate who fails to pass in a course or who obtains a conceded pass and who desires to take the course again shall, unless exempted wholly or partially therefrom by the Head of Department concerned, do written and laboratory or other work in that course to the satisfaction of the teaching staff concerned

(b) A candidate who has twice failed to obtain a Pass or higher in the examination in any course shall not enrol for the course again, or for any other course which in the opinion of the Faculty contains a substantial amount of the same material, except by permission of the Faculty and under such conditions as the Faculty may prescribe. For the purpose of this clause a candidate who fails to receive permission to sit for or does not attend the examination in any course after having attended substantially the full program of instruction in it, shall be deemed to have failed to pass the examination. A candidate who obtains a Pass only after being granted permission to enrol for the third time shall not take a course for which that Pass is a prerequisite, save in exceptional circumstances and with the permission of the Faculty.

4 Qualification Requirements

4.1 Academic Program

For the award Diploma in Natural Resource Management a student shall complete all courses listed in the program of study for Level I and Level II of the Bachelor of Natural Resource Management as specified under Academic Program Rule 5.2 for that program

4.2 Unacceptable combinations of courses

No candidate will be permitted to count towards an award any course, together with any other course, which, in the opinion of the Faculty, contains a substantial amount of the

same material, and no course or portion of a course may be counted twice towards an award.

4.3 Graduation

Subject to Chapter 89 of the Statutes, candidates who have satisfied the requirements for any award of the University shall be admitted to that award at a graduation ceremony for the purpose.

5 Special Circumstances

When in the opinion of the Faculty special circumstances exist, the Council, on the recommendation of the Faculty in each case, may vary any of the provisions of the Academic Program Rules for any particular award.

Diploma in Wine Marketing

Note: This program is is available in the external mode only.

Academic Program Rules

1 Duration of program

The program of study for the diploma, which is offered externally only, shall extend over four years of part-time study.

2 Admission

2.1 Status, exemption and credit transfer

Candidates who have previously passed courses in programs in the University or other tertiary educational institutions may, on written application to the Faculty, be granted such status in appropriate courses in the program for the degree of Diploma in Wine Marketing as the Faculty in each case may determine.

2.2 Limits on the granting of status

Normally status will only be considered for courses passed within the previous ten years. Status may be granted on a course for course basis or on the basis of course for group of courses. Status will be granted only for courses which meet the academic requirements of the award towards which credit is sought.

Students must complete a minimum of 24 units towards the award, as defined in 4.1, at the University of Adelaide.

3 Assessment and examinations

3.1 (a) A candidate shall not be eligible to attend for examination unless written and laboratory or other practical work, where required, has been completed to the satisfaction of the teaching staff concerned

(b) In determining a candidate's final result in a course the assessors may take into account oral, written, practical or examination work, provided that the candidate has been given notice at the beginning of the course of the way in which the work will be taken into account and of its relative importance in the final result.

3.2 There shall be four classifications of pass in any course for the degree as follows: Pass with High Distinction, Pass with Distinction, Pass with Credit, Pass. In addition there shall be a classification of Conceded Pass for courses of up to 4 units in value, to a maximum of 6 units, provided such courses shall not satisfy prerequisite requirements.

3.3 (a) A candidate who fails to pass in a course or who obtains a conceded pass and who desires to take the course again shall do written and laboratory or other work in that course to the satisfaction of the teaching staff concerned.

(b) A candidate who has twice failed to obtain a Pass or higher in the examination in any course shall not enrol for the course again, or for any other course which in the opinion of the Faculty contains a substantial amount of the same material. except by permission of the Faculty and under such conditions as the Faculty may prescribe. For the purpose of this clause a candidate who fails to receive permission to sit for or does not attend the examination in any course after having attended substantially the full program of instruction in it shall be deemed to have failed to pass the examination. A candidate who obtains a Pass only after being granted permission to enrol for the third time shall not take a course for which that Pass is a prerequisite, save in exceptional circumstances and with the permission of the Faculty.

4 Qualification Requirements

4.1 Academic program

For the award Diploma in Wine Marketing a student shall complete all courses listed in the program of study for level I and level II of the Bachelor of Wine Marketing as specified under Academic Program Rule 5.2 for that program.

The program of study for students commencing the program prior to 2004 is set out in the Calendar ,Handbook of Undergraduate Programs, 2003.

The program of study for students commencing the program prior to 1996 is set out in the Calendar, Volume 2: Handbook of Courses, 1998.

4.2 Unacceptable combinations of courses

No candidate will be permitted to count towards an award any course, together with any other course, which, in the opinion of the Faculty, contains a substantial amount of the same material. and no course or portion of a course may be counted twice towards an award.

4.3 Graduation

Subject to Chapter 89 of the Statutes, candidates who have satisfied the requirements for any award of the University shall be admitted to that award at a graduation ceremony for the purpose.

5 Special Circumstances

When in the opinion of the Faculty special circumstances exist, the Council, on the recommendation of the Faculty in each case, may vary any of the provisions of the Academic Program Rules for any particular award.

Bachelor of Agriculture

Academic Program Rules

1 General

There shall be a degree and an Honours degree of Bachelor of Agriculture.

2 Duration of program

The program of study for the Bachelor degree shall extend over three years of full-time study or the part-time equivalent and that for the Honours degree over one additional year of full-time study, or, in exceptional circumstances, over two years of part-time study.

3 Admission

3.1 Particular requirement

For admission to the Bachelor of Agriculture an applicant must hold a South Australian Class 1 Drivers Licence or interstate equivalent.

3.2 Status, exemption and credit transfer

Candidates who have previously passed courses in programs in the University or other tertiary educational institutions may, on written application to the Faculty, be granted such status in appropriate courses in the program for the degree of Bachelor of Agriculture as the Faculty in each case may determine.

Proficiency status may be granted where the student demonstrates proficiency in the course matter of a course to the satisfaction of the Head of School, who shall decide the method of assessment after consultation with the Course Coordinator.

Where a student has failed a course at the University of Adelaide or at the former Roseworthy Agricultural College he/she may not apply for proficiency status in the course in lieu of repeating it.

Where status has not been granted a student may request exemption from part of the course. The course coordinator will make all decisions on the granting of exemption.

3.2.1 Limits on the granting of status

Normally status will only be considered for courses passed within the previous ten years. Status may be granted on a course for course basis or on the basis of course for group of courses. Status will be granted only for courses which meet the academic requirements of the award towards which credit is sought.

Students must complete a minimum of 24 units towards the award, as defined in 5.2, at the University of Adelaide.

4 Assessment and examinations

4.1 (a) A candidate shall not be eligible to attend for examination unless written and laboratory or other practical work, where required, has been completed to the satisfaction of the teaching staff concerned.

(b) In determining a candidate's final result in a course the assessors may take into account oral, written, practical or examination work, provided that the candidate has been given notice at the beginning of the course of the way in which the work will be taken into account and of its relative importance in the final result.

4.2 There shall be four classifications of pass in any course for the degrees, as follows: Pass with High Distinction, Pass with Distinction, Pass with Credit, Pass. In addition there shall be a classification of Conceded Pass for courses of up to 4 units in value, to a maximum of 7 units. Courses for which a result of Conceded Pass has been obtained may not be presented towards a major in any discipline, nor as a prerequisite.

4.3 (a) A candidate who fails to pass in a course or who obtains a conceded pass and who desires to take the course again shall, unless exempted wholly or partially therefrom by the Head of School concerned, do written and laboratory or other work in that course to the satisfaction of the teaching staff concerned

(b) A candidate who has twice failed to obtain a Pass or higher in the examination in any course shall not enrol for the course again, or for any other course which in the opinion of the Faculty contains a substantial amount of the same material, except by permission of the Faculty and under such conditions as the Faculty may prescribe. For the purpose of this clause a candidate who fails to receive permission to sit for or does not attend the examination in any course after having attended substantially the full program of instruction in it, shall be deemed to have failed to pass the examination. A candidate who obtains a Pass only after being granted permission to enrol for the third time shall not take a course for which that Pass is a prerequisite, save in exceptional circumstances and with the permission of the Faculty.

5 Qualification Requirements

5.1 Unacceptable combinations of courses

No candidate will be permitted to count towards an award any course, together with any other course, which, in the opinion of the Faculty, contains a substantial amount of the same material, and no course or portion of a course may be counted twice towards an award.

5.2 Bachelor of Agriculture

For the degree of Bachelor of Agriculture a student shall pass courses to the value of 72 units as listed for Level I, II and III of the program of study:

Level I

semester 1

AGRIC 1000 Perspectives on Modern Agriculture	3
APP ECOL 1004RW Cell Biology and Genetics	3
PLANT SC 1001RW Chemistry and Introductory Biochemistry A	3

semester 2

AGRIBUS 1009RW Rural Business Planning A	3
APP ECOL 1003RW Biology of Plants and Animals	3
SOIL&WAT 1000RW Soils and Land Management Systems	3
STATS 1002RW Data Management and Interpretation	3

full year

AGRONOMY 1006ARW/BRW Agricultural Experience I	3

Level II

semester 1

AGRIBUS 2033RW Rural Finance and Marketing	4
SOIL&WAT 2012WT Soil and Water Resources	4
SOIL&WAT 2013RW Introduction to Engineering in Agriculture	2

semester 2

AGRONOMY 2008RW Agricultural Experience II	2
AGRONOMY 2013RW Production Agronomy	4
ANIML SC 2030RW Livestock Production Science	4
PLANT SC 2003WT Microbiology and Invertebrate Biology	4

Level III

semester 1

AGRIBUS 3012RW Rural Business Management	3
AGRONOMY 3020RW Principles and Practice of Communications	3

Plus electives to the value of 6 units chosen from:

AGRONOMY 3005WT Irrigation Science	3
AGRONOMY 3012RW Advanced Agronomy	3
ANIML SC 3017RW Comparative Animal Physiology	3
APP ECOL 3008WT Integrated Pest Management A	3
PLANT SC 3007WT Introductory Plant and Animal Breeding	3
SOIL&WAT 3002WT Soil Management and Conservation	3
SOIL&WAT 3016WT Soil Ecology and Nutrient Cycling	3

semester 2

AGRONOMY 3004RW Land Management Systems for the Future	3

Plus electives to the value of 9 units chosen from:

AGRIBUS 2009WT Issues in Australian Agribusiness	3
AGRIBUS 3010WT International Agribusiness Environment	3
AGRONOMY 3016WT Crop and Pasture Ecology	3
ANIML SC 3015RW Animal Nutrition & Metabolism	3
ANIML SC 3016RW Animal Health and Welfare	3
GEOLOGY 3010 Remote Sensing (S)	3
PLANT SC 3004WT Mineral Nutrition of Plants	3
PLANT SC 3018WT Advanced Plant and Animal Breeding	3
SOIL&WAT 3012WT Soil Water Management	3

Alternative electives are listed below:

semester 1 or 2

AGRONOMY 3008RW Individual Studies (Ag)	3

full year

APP ECOL 3022AEX/BEX Integrated Weed Management	3

Summer semester/other vacation periods

AGRONOMY 3026RW Ecology and Management of Rangelands (a)	3
ANIML SC 3018RW Pig Science	3
ANIML SC 3019RW Ecology and Management of Vertebrate Pests (c)	3
ANIML SC 3043RW Biotechnology in the Animal Industries (c)	3

HORTICUL 3004WT Olive Production and Marketing (a) 3

SOIL&WAT 3014WT GIS for Agricultural Science (b) 3

Students may apply to the Program Coordinator to take courses from other programs in the Faculty provided that prerequisites have been satisfied.

(a) July (b) September (c) Summer

5.3 Honours degree of Bachelor of Agriculture

5.3.1 To be eligible to be admitted to the Honours degree program, a candidate shall complete the requirements for the ordinary degree or equivalent to a standard which is acceptable to the Faculty for the purpose of admission to the Honours degree.

5.3.2 A candidate may, subject to the approval of the Head of School concerned, proceed to the Honours degree in one of the following courses:

ANIML SC 4000ARW/BRW Honours Animal Science (B.Ag.)

HORTICUL 4006AWT/BWT Honours Wine and Horticulture(B.Ag.)

PLANT SC 4014AWT/BWT Honours Plant and Pest Science (B.Ag.)

SOIL&WAT 4002AWT/BWT Honours Soil and Land Systems (B.Ag.)

or

with the approval of the Faculty in each case, in a course taught by another Discipline or School of the University.

5.3.3 The work of the Honours year will normally be completed in one year of full-time study. The Faculty may permit a candidate to take two years, but no more, under such conditions as it may determine.

5.3.4 A candidate who satisfies the requirements for Honours shall be awarded the Honours degree, but the Faculty shall decide within which of the following classes and divisions the degree shall be awarded:

1	First Class
2A	Second Class div A
2B	Second Class div B
3	Third Class
NAH	Not awarded.

5.4 Graduation

Subject to Chapter 89 of the Statutes, candidates who have satisfied the requirements for any award of the University shall be admitted to that award at a graduation ceremony for the purpose.

6 Special Circumstances

When in the opinion of the Faculty special circumstances exist, the Council, on the recommendation of the Faculty in each case, may vary any of the provisions of the Academic Program Rules for any particular award.

Bachelor of Food Technology and Management

Students who commenced their program of study in 2003 and earlier will normally complete their course of study under the provision of the specific program rules current at the time of commencement. Student should consult the *University of Adelaide Calendar - Handbook of Undergraduate Programs 2003*.

On application to the Faculty, continuing students may be permitted to complete their studies under the current academic program rules, with such modifications and stipulations as the Faculty may deem necessary

Academic Program Rules

1 General

The degree of Bachelor of Food Technology and Management may be awarded in the Pass or Honours grade.

2 Duration of program

The program for the degree shall extend over four years of full-time study or the part-time equivalent.

3 Admission

3.1 Status, exemption and credit transfer

Candidates who have previously passed courses in programs in the University or other tertiary educational institutions may, on written application to the Faculty be granted such status in appropriate courses in the program for the degree of Bachelor of Food Technology and Management as the Faculty in each case may determine.

4 Assessment and examinations

4.1 (a) A candidate shall not be eligible to attend for examination unless written and laboratory or other practical work, where required, has been completed to the satisfaction of the teaching staff concerned

(b) In determining a candidate's final result in a course the assessors may take into account oral, written, practical or examination work, provided that the candidate has been given notice at the beginning of the course of the way in which the work will be taken into account and of its relative importance in the final result.

4.2 There shall be four classifications of pass in any course for the degrees, as follows: Pass with High Distinction, Pass with Distinction, Pass with Credit, Pass. In addition there shall be a pass classification of Conceded Pass for a course up to 4 units in value up to an aggregate value of 7 units. Courses for which a result of Conceded Pass has been obtained may not be presented towards a major in any discipline.

4.3 (a) A candidate who fails to pass in a course or who obtains a conceded pass and who desires to take the course again shall, unless exempted wholly or partially therefrom by the Head of School concerned, do written and laboratory or other work in that course to the satisfaction of the teaching staff concerned.

(b) A candidate who has twice failed to obtain a Pass or higher in the examination in any course shall not enrol for the course again, or for any other course which in the opinion of the Faculty contains a substantial amount of the same material, except by permission of the Faculty and under such conditions as the Faculty may prescribe. For the purpose of this clause a candidate who fails to receive permission to sit for or does not attend the examination in any course after having attended substantially the full program of instruction in it, shall be deemed to have failed to pass the examination. A candidate who obtains a Pass only after being granted permission to enrol for the third time shall not take a course for which that Pass is a prerequisite, save in exceptional circumstances and with the permission of the Faculty.

5 Qualifications requirements

5.1 Unacceptable combinations of courses

No candidate will be permitted to count towards an award any course, together with any other course, which, in the opinion of the Faculty, contains a substantial amount of the same material, and no course or portion of a course may be counted twice towards an award.

5.2 Academic program

To qualify for the degree a candidate shall satisfactorily present passes in the courses listed below for the four years of the program to a value of not less than 96 units.

Level I

semester 1

BIOLOGY 1101 Biology 1: Molecules, Genes and Cells A	3
or	
BIOLOGY 1102 Biology 1: Molecules, Genes and Cells B	3
CHEM 1100 Chemistry 1A	3
or	
CHEM 1101 Foundations of Chemistry 1A	3
CHEM ENG 1001 Introduction to Process Engineering	3
WINEMKTG 1013WT Wine and Food Marketing Principles	3

semester 2

BIOLOGY 1202 Biology 1:Organisms	3
CHEM 1200 Chemistry 1B	3
or	
CHEM 1201 Foundations of Chemistry1B	3
FOODT&M 1000RG Introduction to Food Technology	3
STATS 1004 Statistical Practice 1 (Life Sciences)	3

Level II

semester 1

BIOCHEM 2106 Biochemistry II (Ag.) A	4
FOODT&M 2001RG Food Engineering Principles	2
PLANT SC 2004WT General Microbiology II	2
WINEMKTG 2037WT Applied Management Science	4

semester 2

ANIMAL SC 2029WT Genes and Inheritance	4
FOODT&M 2002WT Nutrition II	4
FOODT&M 2003RG Food Microbiology II	4

Level III

semester 1

BIOMET 3000WT Agricultural Experimentation	3
FOODT&M 3003RG Food Preservation and Packaging	3
FOODT&M 3011RG Food Chemistry	3
PLANT SC 3002WT Biotechnology in the Food and Wine Industry	2

semester 2

APP ECOL 3017WT Communication in the Agri-food Industry	3
FOODT&M 3025RG Animal Food Processing (o)*	3
FOODT&M 3026RG Plant Food Processing(e)*	3
FOODT&M 3027RG Sensory Evaluation of Foods	3
WINEMKTG 2011WT Applied Marketing Research II	4

Level IV

Students must complete courses to the value of at least 24 units including.

semester 1

FOODT&M 3021RG Food Product Development	3
WINEMKTG 3014WT Food Marketing	4

semester 2

FOODT&M 3014RG Food Quality and Regulation	3
FOODT&M 3025RG Animal Food Processing (o)*	3
FOODT&M 3026RG Plant Food Processing(e)*	3

Full year

FOODT&M 3020WT Research Project (Food Technology & Management)	12

* these courses are offered in alternate years: (o) = odd years, (e) = even years.

5.3 The Honours Program

5.3.1 The award of the Honours grade shall be made for meritorious performance in the program with greatest weight given to performance in the later years..

5.3.2 The Honours grade may be awarded in one of the following classifications:

1	First Class
2A	Second Class div A
2B	Second Class div B.

5.4 Graduation

Subject to Chapter 89 of the Statutes, candidates who have satisfied the requirements for any award of the University shall be admitted to that award at a graduation ceremony for the purpose.

6 Special Circumstances

When in the opinion of the Faculty special circumstances exist, the Council, on the recommendation of the Faculty in each case, may vary any of the provisions of the Academic Program Rules for any particular award.

Bachelor of Natural Resource Management

Students who commenced their program of study in 2003 and earlier will normally complete their course of study under the provision of the specific program rules current at the time of commencement. Student should consult the *University of Adelaide Calendar - Handbook of Undergraduate Programs 2003*.

On application to the Faculty, continuing students may be permitted to complete their studies under the current academic program rules, with such modifications and stipulations as the Faculty may deem necessary

Academic Program Rules

1 General

There shall be a degree and an Honours degree of Bachelor of Natural Resource Management.

2 Duration of program

The program of study for the Bachelor degree shall extend over three years of full-time study or the part-time equivalent and that for the Honours degree over one additional year of full-time study, or, in exceptional circumstances, over two years of part-time study.

3 Admission

3.1 Status, exemption and credit transfer

3.1.1 Candidates who have previously passed courses in programs in the University or other tertiary educational institutions may, on written application to the Faculty, be granted such status in appropriate courses in the program for the degree of Bachelor of Natural Resource Management as the Faculty in each case may determine.

Proficiency status may be granted where the student demonstrates proficiency in the course matter of a course to the satisfaction of the Head of a School, who shall decide the method of assessment after consultation with the Course Coordinator.

Where a student has failed a course at the University of Adelaide or at the former Roseworthy Agricultural College he/she may not apply for proficiency status in the course in lieu of repeating it.

Where status has not been granted a student may request exemption from part of the course. The course coordinator will make all decisions on the granting of exemption.

3.1.2 Limits on the granting of status

Normally status will only be considered for courses passed within the previous ten years. Status may be granted on a course for course basis or on the basis of course for group of courses. Status will be granted only for courses which meet the academic requirements of the award towards which credit is sought.

Students must complete a minimum of 24 units towards the award, as defined in 5.2, at the University of Adelaide.

4 Assessment and examinations

4.1 (a) A candidate shall not be eligible to attend for examination unless written and laboratory or other practical work, where required, has been completed to the satisfaction of the teaching staff concerned

(b) In determining a candidate's final result in a course the assessors may take into account oral, written, practical or examination work, provided that the candidate has been given notice at the beginning of the course of the way in which the work will be taken into account and of its relative importance in the final result.

4.2 There shall be four classifications of pass in any course for the degree, as follows: Pass with High Distinction, Pass with Distinction, Pass with Credit, Pass. In addition there shall be a pass classification of Conceded Pass for course of not more than 4 units but a candidate may only present courses for which this result has been obtained up to an aggregate value of 7 units. Courses for which a result of Conceded Pass has been obtained may not be presented towards a major in any discipline.

4.3 (a) A candidate who fails to pass in a course or who obtains a conceded pass and who desires to take the course again shall, unless exempted wholly or partially therefrom by the Head of School concerned, do written and laboratory or other work in that course to the satisfaction of the teaching staff concerned

(b) (b) A candidate who has twice failed to obtain a Pass or higher in the examination in any course shall not enrol for the course again, or for any other course which in the opinion of the Faculty contains a substantial amount of the same material, except by permission of the Faculty and under such conditions as the Faculty may prescribe. For the purpose of this clause a candidate who fails to receive permission to

sit for or does not attend the examination in any course after having attended substantially the full program of instruction in it, shall be deemed to have failed to pass the examination. A candidate who obtains a Pass only after being granted permission to enrol for the third time shall not take a course for which that Pass is a prerequisite, save in exceptional circumstances and with the permission of the Faculty.

5 Qualification Requirements

5.1 Unacceptable combinations of courses

No candidate will be permitted to count towards an award any course, together with any other course, which, in the opinion of the Faculty, contains a substantial amount of the same material, and no course or portion of a course may be counted twice towards an award.

5.2 For the degree Bachelor of Natural Resource Management a student shall present passes to the value of 72 units from the courses listed below, including all core courses and between 24 and 30 units of Level I courses and between 18 and 24 units of Level II courses:

5.2.1 Level I

semester 1

APP ECOL 1002RW Field Studies IA	3
APP ECOL 1004RW Cell Biology and Genetics	3
ENV BIOL 1002 Environmental Biology I	3
PLANT SC 1001RW Chemistry and Introductory Biochemistry A	3

semester 2

APP ECOL 1003RW Biology of Plants and Animals	3
APP ECOL 1006RW Plant and Animal Diversity	3
SOIL&WAT 1000RW Soils and Land Management Systems 1	3
STATS 1002RW Data Management and Interpretation	3

5.2.2 Level II

Core

semester 1

ENV BIOL 2001 Evolutionary Biology EBII	4
SOIL&WAT 2011RW Spatial Information and Land Evaluation	4
soil&wat 2012WT Soil and Water Resources	4

semester 2

ANIML SC 2014RW Fauna, Survey and Management	4
ENV BIOL 2003 Ecology EBII	4
PLANT SC 2003WT Microbiology and Invertebrate Biology	4

5.2.3 Level III

Core

semester 1

AGRIBUS 3001RW Economics of Resource Management III	3
AGRONOMY 3020RW Principles and Practice of Communications	3

Electives to the value of 6 units chosen from:

APP ECOL 3008WT Integrated Pest Management A	3
APP ECOL 3016RW Individual Studies A	3
ENV BIOL 3004 Freshwater Ecology III	3
ENV BIOL 3023RW Conservation Biology	3
ENVT 3009 Introduction to Environmental Impact Assessment	6
SOIL&WAT 3002WT Soil Management & Conservation	3
SOIL&WAT 3016WT Soil Ecology and Nutrient Cycling	3

semester 2

AGRONOMY 3004RW Land Management Systems for the Future	3

Electives to the value of 9 units chosen from:

AGRONOMY 3000RW Agroforestry	3
AGRONOMY 3016WT Crop and Pasture Ecology	3
APP ECOL 3003RW Individual Studies B	3
GEOLOGY 3010 Remote Sensing (S)	3

Alternative electives are listed below:

full year

APP ECOL 3022AEX/BEX Integrated Weed Management	3

summer semester/other vacation periods

AGRONOMY 3026RW Ecology and Management of Rangelands (July)	3
ANIML SC 3019RW Ecology and Management of Vertebrate Pests (s)	3
SOIL&WAT 3004WT Environmental Toxicology and Remediation (s)	3
SOIL&WAT 3007WT GIS for Environmental Management (s)	3
SOIL&WAT 3011WT Integrated Catchment Management III (Sept)	3
SOIL&WAT 3014WT GIS for Agricultural Sciences (Sept)	3
SOIL&WAT 3015WT Ecosystem Modelling for Resource and Environmental Management (s)	3

Students may apply to take courses from other programs in the Faculty provided prerequisites have been satisfied.

(s) = summer semester.

5.3 Honours degree of Bachelor of Natural Resource Management

5.3.1 To be eligible to be admitted to the Honours degree program, a candidate shall complete the requirements for the Bachelor degree or equivalent to a standard which is acceptable to the Faculty for the purpose of admission to the Honours degree.

5.3.2 A candidate may, subject to the approval of the Head of Discipline concerned, proceed to the Honours degree in one of the following courses:

ANIMAL SC 4003ARW/BRW
Honours Animal Science (B.NR.Mgt)

APP ECOL 4000ARW/BRW
Honours Plant and Pest Science (B.NR.Mgt.)

ENV BIOL 4010A/B
Honours Environmental Biology (B.NR.Mgt.)

SOIL&WAT 4000AWT/BWT
Honours Soil and Land Systems (B.NR.Mgt.)

or

with the approval of the Faculty in each case, in a course taught by another Department of the University.

5.3.3 The work of the Honours year will normally be completed in one year of full-time study. The Faculty may permit a candidate to take two years, but no more, under such conditions as it may determine.

5.3.4 A candidate who satisfies the requirements for Honours shall be awarded the Honours degree, but the Faculty shall decide within which of the following classes and divisions the degree shall be awarded:

1	First Class
2A	Second Class div A
2B	Second Class div B
3	Third Class
NAH	Not awarded.

5.4 Graduation

Subject to Chapter 89 of the Statutes, candidates who have satisfied the requirements for any award of the University shall be admitted to that award at a graduation ceremony for the purpose.

6 Special Circumstances

When in the opinion of the Faculty special circumstances exist, the Council, on the recommendation of the Faculty in each case, may vary any of the provisions of the Academic Program Rules for any particular award.

Bachelor of Oenology

Academic Program Rules

1 General

There shall be a degree of Bachelor of Oenology

2 Qualification Requirements

2.1 Unacceptable combinations of courses

No candidate will be permitted to count towards an award any course, together with any other course, which, in the opinion of the Faculty, contains a substantial amount of the same material, and no course or portion of a course may be counted twice towards an award.

2.2 It is not necessary for a candidate to take all the courses of any one level simultaneously or to complete all the course set out for one level before enrolling for any courses at the following level, provided that the prerequisite courses have been passed. However, a candidate who desire to take a Level III course before completing all compulsory Level I and II courses must obtain the permission of the Faculty.

2.3 Academic program

To qualify for the degree a candidate shall pass courses, listed below, to the value of 96 units, which satisfy the following requirements:

(a) Level I courses to the value of 24 units *and*

(b) Level II courses to the value of 24 units in accordance with the rules of the Bachelor of Science (Viticulture)

(c) Level III and IV courses as listed.

2.3.1 Level III

Courses to the value of 24 units:

AGRIBUS 3017WT Business Management	3
CHEM ENG 3007WT Winery Engineering	3
OENOLOGY 3007WT Stabilisation and Clarification	3
OENOLOGY 3016WT Cellar and Winery Waste Management	3
OENOLOGY 3037WT Distillation and Fortified Winemaking	3
OENOLOGY 3047WT Winemaking at Vintage	3
OENOLOGY 3046WT Fermentation Technology	3
VITICULT 3018WT Viticultural Production B	3

2.3.2 Level IV

Courses to the value of 12 units Including:

semester 1

OENOLOGY 3033WT Industry Experience (Oenology)	4
VITICULT 3005WT Grape Industry Practice, Policy and Communication	2

semester 2

OENOLOGY 3003WT Wine Packaging and Quality Management	3
OENOLOGY 3045WT Advances in Oenology	3

And a further 12 units of electives approved by the program coordinator, or 12 unit Honours research project.

2.4 Graduation

Subject to Chapter 89 of the Statutes, candidates who have satisfied the requirements for any award of the University shall be admitted to that award at a graduation ceremony for the purpose.

3 Special Circumstances

When in the opinion of the Faculty special circumstances exist, the Council, on the recommendation of the Faculty in each case, may vary any of the provisions of the Academic Program Rules for any particular award.

Bachelor of Rural Enterprise Management

Academic Program Rules

1 Duration of program

The program for the degree shall extend over one year of full-time study or the part-time equivalent.

2 Admission

2.1 Except as provided in 2.2 below, an applicant for admission to the program of study for the Bachelor of Rural Enterprise Management shall have qualified for the Diploma of Agricultural Production or for the South Australian TAFE Advanced Diploma in Rural Enterprise Management or for an award accepted by the Faculty of Sciences as equivalent to those qualifications for the purpose of this rule.

2.2 The Faculty may, subject to such conditions (if any) as it may wish to impose, accept as a candidate for the Bachelor of Rural Enterprise Management a person who does not qualify under 2.1 above, but has given evidence satisfactory to the Faculty of fitness to undertake the academic program

2.3 Status, exemption and credit transfer

Candidates who have previously passed courses in programs in the University or other tertiary educational institutions may, on written application to the Faculty, be granted such status in appropriate courses in the academic program for the degree of Bachelor of Rural Enterprise Management as the Faculty in each case may determine

3 Assessment and examinations

3.1 (a) A candidate shall not be eligible to attend for examination unless written and laboratory or other practical work, where required, has been completed to the satisfaction of the teaching staff concerned

(b) In determining a candidate's final result in a course the assessors may take into account oral, written, practical or examination work, provided that the candidate has been given notice at the beginning of the course of the way in which the work will be taken into account and of its relative importance in the final result.

3.2 There shall be four classifications of pass in any course for the degrees, as follows: Pass with High Distinction, Pass with Distinction, Pass with Credit, Pass. In addition there shall be a classification of Conceded Pass up to a maximum value of 7 units provided such courses shall not satisfy prerequisite requirements.

3.3 (a) A candidate who fails to pass in a course or who obtains a conceded pass and who desires to take the course again shall, unless exempted wholly or partially therefrom by the Head of Department concerned, do written and laboratory or other work in that course to the satisfaction of the teaching staff concerned.

(b) A candidate who has twice failed to obtain a Pass or higher in the examination in any course shall not enrol for the course again, or for any other course which in the opinion of the Faculty contains a substantial amount of the same material, except by permission of the Faculty and under such conditions as the Faculty may prescribe. For the purpose of this clause a candidate who fails to receive permission to sit for or does not attend the examination in any course after having attended substantially the full program of instruction in it, shall be deemed to have failed to pass the examination. A candidate who obtains a Pass only after being granted permission to enrol for the third time shall not take a course for which that Pass is a prerequisite, save in exceptional circumstances and with the permission of the Faculty.

4 Qualifications requirements

4.1 Unacceptable combinations of courses

No candidate will be permitted to count towards an award any course, together with any other course, which, in the opinion of the Faculty, contains a substantial amount of the same material, and no course or portion of a course may be counted twice towards an award.

4.2 Academic program

Candidates must pass courses to the value of not less than 24 units including a minimum of 20 units at Level III.

4.2.1 All candidates shall complete the compulsory courses:

AGRIBUS 3046ARW/BRW Leadership in Agri-industries	3
AGRIBUS 3047RW Organisational Management for Rural Enterprises	3
AGRIBUS 3048RW Quality Management for Rural Enterprises	3

4.2.2 Candidates who have not previously completed the following courses or courses deemed by Faculty to be equivalent to those courses shall complete the following:

AGRIBUS 3049RW Marketing of Rural Commodities	3
WINEMKTG 1015EX Data Analysis for Wine and Food Business	3

4.2.3 Students must complete sufficient electives from the courses listed below to bring to a total value of 24 units the courses presented for the degree. To qualify for the Bachelor of Rural Enterprise Management students must have completed three courses from ONE of the production areas listed below. Choice of electives must be approved by the Program Coordinator.

Electives

AGRIBUS 2009WT Issues in Australian Agribusiness	3
AGRIBUS 3010WT International Agribusiness Environment	3
AGRIBUS 3012RW Rural Business Management	3
AGRIBUS 3044RW Individual Studies in Rural Enterprise Management	3
FOODT&M 3018WT Food Marketing	3
SOIL&WAT 3014WT GIS for Agricultural Sciences	3
WINEMKTG 2006EX Wine Retail and Distribution Management	3
WINEMKTG 3047EX Internet Marketing and E-Commerce	4

Production Electives

Agronomy

AGRONOMY 2013RW Production Agronomy	4
AGRONOMY 3000RW Agroforestry	3
AGRONOMY 3004RW Land Management Systems for the Future	3
AGRONOMY 3012RW Advanced Agronomy	3

Animal Production

ANIML SC 2030RW Livestock Production Science	4
ANIML SC 3015RW Animal Nutrition & Metabolism	3
ANIML SC 3016RW Animal Health & Welfare	3
ANIML SC 3018RW Pig Science	4
PLANT SC 3007WT Introductory Plant and Animal Breeding	

Horticulture

HORTICUL 3000WT Production Horticulture (e)*	3
HORTICUL 3001WT Horticulture Systems	3
HORTICUL 3004WT Olive Production and Marketing (MY)*	3
HORTICUL 3042WT Postharvest Horticulture and Marketing (o)*	3
HORTICUL 3047WT Lifestyle Horticulture (e)*	3

* These courses offered at specified times: (e) = even years, (o) = odd years, MY = mid-year break, (s) = summer semester

4.3 Graduation

Subject to Chapter 89 of the Statutes, candidates who have satisfied the requirements for any award of the University shall be admitted to that award at a graduation ceremony for the purpose.

5 Special Circumstances

When in the opinion of the Faculty special circumstances exist, the Council, on the recommendation of the Faculty in each case, may vary any of the provisions of the Academic Program Rules for any particular award.

Bachelor of Science

Students who commenced their program of study in 2003 and earlier will normally complete their course of study under the provision of the specific program rules current at the time of commencement. Student should consult the *University of Adelaide Calendar - Handbook of Undergraduate Programs 2003*.

On application to the Faculty, continuing students may be permitted to complete their studies under the current academic program rules, with such modifications and stipulations as the Faculty may deem necessary

Academic Program Rules

1 General

1.1 There shall be a Bachelor of Science and an Honours Degree of Bachelor of Science.

1.2 A candidate may obtain a Bachelor degree, an Honours degree or both.

1.3 A graduate who has obtained the Honours degree of Bachelor of Arts, or the Honours degree of Bachelor of Science in the School of Mathematical and Computer Sciences, may not proceed to the Honours degree of Bachelor of Science in the Faculty of Sciences in the same course.

2 Duration of programs

The program of study for the degrees shall extend over three years of full-time study or the part-time equivalent and that for the Honours degree over one additional year of full-time study or, in exceptional circumstances, over two years of part-time study.

3 Admission

3.1 Status, exemption and credit transfer - all programs

3.1.1 Exemption from any part of the program on the first occasion on which a candidate takes a course will be granted only in special cases and on grounds approved by the Faculty.

3.1.2 Candidates who have previously passed courses offered in other programs at the University of Adelaide or other recognised tertiary institutions and who wish to count such courses towards their degree may, on written application to the Faculty, be granted status towards such specific degree requirements as the Faculty shall determine, subject to the following conditions:

(a) the candidate shall present a range of courses which fulfils the requirements of the relevant Academic Program Rules *and*

(b) the candidate shall present courses which satisfy the Level three course requirements and the major in a science discipline requirements of the relevant Academic Program Rules and which have not been presented for any other degree.

4 Assessment and examinations

4.1 (a) A candidate shall not be eligible to attend for examination unless written and laboratory or other practical work, where required, has been completed to the satisfaction of the teaching staff concerned.

(b) In determining a candidate's final result in a course the assessors may take into account oral, written, practical or examination work, provided that the candidate has been given notice at the beginning of the course of the way in which the work will be taken into account and of its relative importance in the final result.

4.2 There shall be four classifications of pass in any courses offered by the Faculty of Sciences, as follows: Pass with High Distinction, Pass with Distinction, Pass with Credit, Pass. In addition there shall be a classification of Conceded Pass for courses of up to 4 units in value, to a maximum of 7 units or to a maximum of 4 units for the degree of Bachelor of Science (Jurisprudence). Courses for which a result of Conceded Pass has been obtained may not be presented towards a major in any discipline, nor as a prerequisite.

4.3 (a) A candidate who fails to pass in a course or who obtains a conceded pass and who desires to take the course again shall, unless exempted wholly or partially therefrom by the Head of School concerned, do written and laboratory or other work in that course to the satisfaction of the teaching staff concerned.

(b) A candidate who has twice failed to obtain a Pass in the examination in any course shall not enrol for the course again, or for any other course which in the opinion of the Faculty contains a substantial amount of the same material, except by permission of the Faculty and under such conditions as the Faculty may

prescribe. For the purpose of this clause a candidate who fails to receive permission to sit for or does not attend the examination in any course after having attended substantially the full program of instruction in it, shall be deemed to have failed to pass the examination. A candidate who obtains a Pass only after being granted permission to enrol for the third time shall not take a course for which that Pass is a prerequisite, save in exceptional circumstances and with the permission of the Faculty.

5 Qualification Requirements

5.1 Unacceptable combinations of courses

No candidate will be permitted to count towards an award any course, together with any other course, which, in the opinion of the Faculty, contains a substantial amount of the same material, and no course or portion of a course may be counted twice towards an award.

Note: A list of unacceptable combinations of courses is available from the Faculty of Sciences.

5.2 To qualify for the degree a candidate shall, subject to the conditions and modifications specified under 5.3 and 5.4 below, pass courses from 5.6 below to the value of 72 units which satisfy the following requirements:

(a) A candidate shall present passes in Level I courses to the value of not more than 30 units

(b) A candidate shall present passes in Level III courses to the value of at least 24 units

(c) A candidate shall complete a major in a science discipline as set out in 5.4 below.

In all cases, a candidate may substitute an appropriate course chosen from Level II to fulfil the requirements of Level I, or from Level III to fulfil the requirements of Level I or II.

5.3 A candidate may, as part of the requirements of 5.2 above, present passes to the value of 8 units in Level I or Level II courses offered by the Faculty of Humanities and Social Sciences, the Faculty of Engineering, Computer and Mathematical Sciences, and the School of Architecture, Landscape Architecture and Urban Design. Passes in Level I or Level II courses to the value of 8 units offered by other Faculties may also be presented provided the enrolment is approved both by the Faculty of Sciences and the other School or Faculty *.

* For entry to Law courses see the Notes to the B.Sc.(Jur.)

5.4 To complete a major in a Science discipline a candidate shall present Level III courses, for which a result of Pass, Pass with Credit, Pass with Distinction or Pass with High Distinction has been obtained. No candidate may present the same course towards more than one major. A major must satisfy one of the following criteria:

Science Discipline - major requirements

Anatomical Sciences

Courses offered by the Department of Anatomical Sciences to the value of at least 9 units.

Biochemistry

Courses to the value of at least 9 units, which include:

BIOCHEM 3000 Molecular and Structural Biology III	6
BIOCHEM 3001 Cell and Developmental Biology III	6

Botany

Courses to the value of at least 9 units, which include:

ENV BIOL 3009 Ecophysiology of Plants III	3

and

ENV BIOL 3007 Systematics and Biodiversity	3

and/or

ENV BIOL 3002 Australian Biota: Past, Present and Future	3

and an additional course if required chosen from the following:

ENV BIOL 3000 Terrestrial Ecology III	3
ENV BIOL 3004 Freshwater Ecology III	3
ENV BIOL 3005 Palaeobiology III	3
ENV BIOL 3006 Research Methods in Environmental Biology III	3
ENV BIOL 3008 Ecological Management and Restoration III	3
ENV BIOL 3010 Marine Ecology III	3
ENV BIOL 3012 Integrated Catchment Management III	3
PLANT SC 3009WT Plant Molecular Biology	6
SOIL&WAT 3015WT Ecosystem Modelling for Resource and Environmental Management.	3

Chemistry

Courses offered in Chemistry to the value of at least 9 units.

A major in Chemistry is distinct from a major in either Chemical Synthesis or Chemistry of Materials, but a candidate may not count a major in both Chemistry and either Chemical Synthesis or Chemistry of Materials.

Chemical Synthesis

Courses offered in Chemistry to the value of at least 9 units, which include:

CHEM 3109 Chemical Synthesis IIIA	6
CHEM 3209 Chemical Synthesis IIIB	6

Chemistry of Materials

Courses offered in Chemistry to the value of at least 9 units, which include:

CHEM 3110 Chemistry of Materials IIIA 6

CHEM 3210 Chemistry of Materials IIIB 6

Entomology

Courses to the value of at least 9 units which include:

APP ECOL 3028WT Insect Ecology 3

and

ENV BIOL 3002 Australian Biota: Past, Present and Future 3

with any courses chosen from the following:

ENV BIOL 3006 Research Methods in Environmental Biology III 3

ENV BIOL 3007 Systematics and Biodiversity 3

ENV BIOL 3008 Ecological Management & Restoration III 3

Environmental Biology

Courses to the value of at least 9 units, selected from those listed for majors in Botany, Entomology and Zoology.

Environmental Geology

Courses to the value of at least 9 units, which include:

GEOLOGY 3010 Remote Sensing 3

GEOLOGY 3014 Surficial Geology III 3

GEOLOGY 3015 Surficial Geology III Field Program 3

Geology

Courses to the value of at least 9 units, which include:

GEOLOGY 3013 Tectonics III 3

GEOLOGY 3016 Igneous and Metamorphic Geology III 3

GEOLOGY 3019 Field Geoscience Program III 3

Geophysics

Courses to the value of at least 9 units, which include:

GEOLOGY 3008 Theoretical Geophysics III 3

GEOLOGY 3017 Petroleum Exploration III 3

GEOLOGY 3018 Mineral Exploration III 3

Genetics

Courses to the value of at least 9 units which include:

GENETICS 3000 Molecular Genetics: Genomes and Gene Expression 6

GENETICS 3006 Human, Developmental and Evolutionary Genetics 6

Microbiology and Immunology

Courses to the value of 9 units which include:

MICRO 3000 Infection and Immunity A 6

MICRO 3001 Infection and Immunity B 6

Molecular Biomedical Science

Courses to the value of l2 units taken from the courses offered by the disciplines of Biochemistry, Genetics, Microbiology & Immunology, and Physiology. (This major is only available to student wishing to undertake study overseas Students wishing to take out this major must apply in writing to the Faculty and have their program of study approved prior to commencing study overseas).

Pharmacology

Courses offered in Clinical & Experimental Pharmacology to the value of at least 9 units.

Physics

Courses offered in Physics to the value of at least 9 units, which include:

PHYSICS 3002 Experimental Physics III 3

and at least two of

PHYSICS 3001 Electromagnetism & Optics III 3

PHYSICS 3004 Quantum Mechanics III 3

PHYSICS 3009 Statistical Mechanics III 2

Theoretical Physics

Courses offered in Physics to the value of at least 9 units, which include:

PHYSICS 3004 Quantum Mechanics III 3

PHYSICS 3006 Advanced Dynamics and Relativity 3

PHYSICS 3009 Statistical Mechanics III 2

and at least one of

PHYSICS 3000 Computational Physics III 2

PHYSICS 3003 Mathematical Physics III 2

PHYSICS 3022 Applied Quantum Mechanics III 3

Physics and Theoretical Physics

A major in Physics and Theoretical Physics may be obtained by presenting courses offered in Physics to the value of at least 18 units, which include:

PHYSICS 3002 Experimental Physics III 3

PHYSICS 3004 Quantum Mechanics III 3

PHYSICS 3006 Advanced Dynamics and Relativity 3

PHYSICS 3009 Statistical Mechanics III 2

Candidates who do not otherwise qualify for a major in Physics and who have successfully completed Level III courses offered in Physics to the value of at least 12 units

may, at the discretion of the Head of School, be recommended to Faculty for the award of a major in Physics or Theoretical Physics.

Physiology

Courses offered in Physiology to the value of at least 9 units.

Psychology

Courses offered in Psychology to the value of at least 9 units which include:

PSYCHOL 3000 Psychological Research Methodology III 4

Zoology

Courses to the value of at least 9 units, which include:

ENV BIOL 3003 Ecophysiology of Animals III 3

and

ENV BIOL 3007 Systematics and Biodiversity 3

and/or

ENV BIOL 3002 Australian Biota:Past, Present and Future 3

and an additional course if required chosen from the following:

APP ECOL 3028WT Insect Ecology 3

ENV BIOL 3000 Terrestrial Ecology III 3

ENV BIOL 3004 Freshwater Ecology III 3

ENV BIOL 3005 Palaeobiology III 3

ENV BIOL 3006 Research Methods in Environmental Biology III 3

ENV BIOL 3008 Ecological Management and Restoration III 3

ENV BIOL 3010 Marine Ecology III 3

ENV BIOL 3015 Ecosystem Modelling for Resource and Environmental Management 3

5.5 Candidates shall complete their program of study for the degree under the current Academic Program Rules except that candidates who commenced their program of study prior to 2004 may qualify for the degree by fulfilling the requirements of the regulations and schedules in force prior to 2004, with such modifications as the Faculty may deem necessary to take account of changes to courses from 2004 onwards.

Alternatively, candidates enrolled prior to 2004 may complete their program of study under present Academic Program Rules, with such modifications as the Faculty may deem necessary to ensure that courses validly passed under previous regulations and schedules may be counted under the present Academic Program Rules.

Where the syllabus of a unit or option which was passed prior to 2004 significantly overlaps the syllabus of a course to be undertaken in 2004 or a later year, the Faculty of Sciences shall grant such exemption from the requirements of the latter course as is practicable.

Notes (not forming part of the Academic Program Rules)

1 Pattern of study

Commencing students are encouraged to enrol in one of the recommended foundation packages which have been developed to ensure appropriate preparation for Level II and III studies. However, provided that they comply with the prerequisites for each course, students may select their own combinations of courses at first and subsequent year levels.

Full- time students normally take courses with an aggregate value of 24 units at each of levels I, II and III. Information on foundation packages is available from the Faculty of Sciences Office.

2 Work required to complete an Adelaide degree (policy of the Faculty of Sciences)

(a) Graduates in another Faculty who wish to qualify for the degree of Bachelor of Science and to count towards that degree courses which have already been presented for another degree may do so, provided that the courses presented fulfil the requirements of 5.2 and 5.3 above, and include a major in a science discipline and Level III courses to the value of at least 24 units which have not been presented for any other degree.

(b) Students coming from other institutions and wishing to obtain a University of Adelaide degree, are required as a minimum to complete Level III courses from 5.6 with an aggregate units value of 24 including a major in a science discipline.

(c) With special permission of the Faculty, a student who has completed most of the degree at the University of Adelaide including Level III courses with an aggregate value of 12 units and a major in a science discipline may be permitted to complete the requirements for the degree at another institution. All applications must be made in writing to the Faculty.

3 Under certain circumstances, and only with prior approval from the Faculty, courses to the value of not more than 6 units selected from the following list may be presented towards the degree of Bachelor of Science in lieu of Level III courses:

AGRONOMY 3026RW Ecology & Management of Rangelands

APP ECOL 3022AEX/BEX Integrated Weed Management

ENV BIOL 3023 Conservation Biology

PATHOL 3003 Pathology IIIHS

PLANT SC 3004WT Mineral Nutrition of Plants

SOIL&WAT 3004WT Environmental Toxicology & Remediation

SOIL&WAT 3007WT GIS for Environmental Management.

Student wishing to present any of these courses towards the B.Sc. must apply in writing to the Faculty Office prior to enrolling in these courses.

5.6 Academic program

Level I

5.6.1 Sciences

semester 1

BIOLOGY 1101 Biology I : Molecules, Genes and Cells A 3

BIOLOGY 1102 Biology I : Molecules, Genes and Cells B 3

CHEM 1100 Chemistry IA 3

CHEM 1101 Foundations of Chemistry 1A 3

GEOLOGY 1100 Earth's Interior 1 3

PHYSICS 1002 Astronomy 1 3

PHYSICS 1008 Physics Principles and Applications 3

PHYSICS 1100 Physics IA 3

PHYSICS 1101 Physics for the Life and Earth Sciences IA 3

PSYCHOL 1000 Psychology IA 3

semester 2

BIOLOGY 1201 Biology I: Human Perspectives 3

BIOLOGY 1202 Biology I : Organisms 3

CHEM 1200 Chemistry IB 3

CHEM 1201 Foundations of Chemistry 1B 3

GEOLOGY 1200 Earth's Environment 1 3

PHYSICS 1200 Physics IB 3

PHYSICS 1201 Physics for the Life and Earth Sciences IB 3

PSYCHOL 1001 Psychology IB 3

5.6.2 Mathematical and Computer Sciences

All Level I Mathematical and Computer Sciences courses listed under Academic Program Rule 4.2 of the degree of Bachelor of Mathematical and Computer Sciences.

Level II

5.6.3 Science

semester 1

ANAT SC 2104 Cells and Tissues II 4

BIOCHEM 2100 Biochemistry IIA 4

CHEM 2003 Environmental Chemistry II 4

CHEM 2100 Chemistry IIA 4

ENV BIOL 2001 Evolutionary Biology EBII 4

ENV BIOL 2002 Botany EBII 4

GENETICS 2100 Genetics IIA: Foundation of Genetics 4

GEOLOGY 2007 Sedimentary & Structural Geology II 4

MICRO 2004 Microbiology II 4

PHYSICS 2001 Classical Mechanics II 2

PHYSICS 2004 Introductory Quantum Mechanics and Applications II 2

PHYSICS 2100 Physics IIA 4

PHYSIOL 2003 Human Physiology IIA: Heart, Lungs and Circulation 4

PSYCHOL 2001 Psychological Research Methodology II 4

PSYCHOL 2002 Psychology IIA 4

semester 2

ANAT SC 2105 Comparative Anatomy of Body Systems II 4

BIOCHEM 2200 Biochemistry IIB 4

CHEM 2200 Chemistry IIB 4

ENV BIOL 2000 Zoology EBII 4

ENV BIOL 2003 Ecology EBII 4

GENETICS 2200 Genetics IIB: Function and Diversity of Genomes 4

GEOLOGY 2006 Igneous & Metamorphic Geology II 4

GEOLOGY 2008 Surficial Geology 4

MICRO 2005 Immunology and Virology II 4

PHYSICS 2200 Physics IIB 4

PHYSICS 2002 Classical Fields and Mathematical Methods II 2

PHYSICS 2007 Environmental Physics II 4

PHYSICS 2009 Photonics II 2

PHYSIOL 2004 Human Physiology IIB: Homeostasis and Nervous System 4

PSYCHOL 2003 Psychology IIB 4

5.6.4 Mathematical and Computer Sciences

semester 1

APP MTH 2000 Differential Equations & Fourier Series 2

APP MTH 2002 Vector Analysis & Complex Analysis* 2

* also offered in semester 2

semester 2

APP MTH 2002 Vector Analysis & Complex Analysis 2

APP MTH 2009 Numerical Analysis and Probability and Statistics 2

STATS 2004 Laplace Transforms and Probability and Statistical Methods 2

All Level II Mathematical and Computer Sciences courses, listed under Academic Program Rule 4.2 of the degree of Bachelor of Mathematical and Computer Sciences. The course MATHS 2004 Mathematics IIM may be presented only as four units at Level I except that candidates may not present both MATHS 1101 Mathematics IA with MATHS 1012 Mathematics IB and MATHS 2004 Mathematics IIM for the degree.

Level III

5.6.5 Science

Anatomical Sciences

semester 1

ANAT SC 3102 Comparative Reproductive Biology of Mammals	3
ANAT SC 3103 Integrative and Comparative Neuroanatomy	3

semester 2

ANAT SC 3101 Biological Anthropology	3
ANAT SC 3104 Structural Cell Biology	3

Chemistry

semester 1

CHEM 3005 Topics in Chemistry IIIA	6
CHEM 3109 Chemical Synthesis IIIA	6
CHEM 3110 Chemistry of Materials IIIA	6

semester 2

CHEM 3006 Topics in Chemistry IIIB	6
CHEM 3209 Chemical Synthesis IIIB	6
CHEM 3210 Chemistry of Materials IIIB	6

Clinical and Experimental Pharmacology

semester 1

PHARM 3010 Pharmacology A III	6

semester 2

PHARM 3011 Pharmacology B III	6

Environmental Biology

summer semester

ENV BIOL 3000 Terrestrial Ecology III	3
ENV BIOL 3005 Palaeobiology III	3

semester 1

ENV BIOL 3002 Australian Biota: Past, Present and Future	3
ENV BIOL 3003 Ecophysiology of Animals III	3
ENV BIOL 3004 Freshwater Ecology III	3
ENV BIOL 3006 Research Methods in Environmental Biology III	3

semester 2

ENV BIOL 3007 Systematics and Biodiversity	3
ENV BIOL 3008 Ecological Management & Restoration III	3
ENV BIOL 3009 Ecophysiology of Plants III	3
ENV BIOL 3010 Marine Ecology III	3
ENV BIOL 3012WT Integrated Catchment Management III	3

Geology and Geophysics

semester 1

GEOLOGY 3013 Tectonics III	3
GEOLOGY 3016 Igneous and Metamorphic Geology III	3
GEOLOGY 3017 Petroleum Exploration III	3
GEOLOGY 3018 Mineral Exploration III	3

semester 2

GEOLOGY 3008 Theoretical Physics III	3
GEOLOGY 3010 Remote Sensing (S)	3
GEOLOGY 3014 Surficial Geology III	3
GEOLOGY 3015 Surficial Geology III Field Program	3
GEOLOGY 3019 Field Geoscience Program III	3

Molecular Biosciences

semester 1

BIOCHEM 3000 Molecular & Structural Biology III	6
GENETICS 3000 Molecular Genetics: Genomes and Gene Expression	6
MICRO 3000 Infection and Immunity A	6

semester 2

BIOCHEM 3001 Cell and Developmental Biology III	6
GENETICS 3006 Human, Developmental and Evolutionary Genetics	6
MICRO 3001 Infection and Immunity B	6

Physics

semester 1

PHYSICS 3001 Electromagnetism & Optics III	3
PHYSICS 3002 Experimental Physics III	3
PHYSICS 3003 Mathematical Physics	2
PHYSICS 3004 Quantum Mechanics III	3
PHYSICS 3023 Space Science & Astrophysics	3

semester 2

PHYSICS 3000 Computational Physics	2
PHYSICS 3006 Advanced Dynamics and Relativity	3
PHYSICS 3007 Introduction to Physics Research	3
PHYSICS 3008 Physics of Solid State Devices	2
PHYSICS 3009 Statistical Mechanics	2
PHYSICS 3020 Photonics III	2
PHYSICS 3022 Applied Quantum Mechanics III	2

Physiology

semester 1

PHYSIOL 3001 Neurobiology III	6

semester 2

PHYSIOL 3000 Advanced Systems Physiology	6

Plant and Pest Science

semester 2

APP ECOL 3019WT Fungal Biology (e)	3
APP ECOL 3028WT Insect Ecology	3
PLANT SC 3009WT Plant Molecular Biology	6

Psychology

semester 1

PSYCHOL 3000 Psychological Research Methodology III	4
PSYCHOL 3001 Environmental Psychology III	2
PSYCHOL 3002 Mind, Brain and Evolution III	2
PSYCHOL 3010 Social Psychology III	2
PSYCHOL 3013 Learning and Behaviour III	2

semester 2

PSYCHOL 3003 Developmental Psychology III	2
PSYCHOL 3005 Perception and Cognition III	2
PSYCHOL 3006 Psychology: Physiology & Behaviour III	2
PSYCHOL 3009 Metapsychology: Psychology Sciences and Society III	2
PSYCHOL 3014 Individual Differences III	2
PSYCHOL 3015 Human Relations III	2

Soil and Land Systems

summer semester

SOIL&WAT 3015WT Ecosystem Modelling for Resource and Environmental Management	3

Note: (e) = even years only

5.6.6 Mathematical and Computer Sciences

All Level III Mathematical and Computer Sciences courses listed under the Academic Program Rule 4.2 of the degree of Bachelor of Mathematical and Computer Sciences.

5.7 The Honours degree

5.7.1 To be eligible to be admitted to the Honours degree program, a candidate shall complete the requirements for the degree or equivalent to a standard which is acceptable to the Faculty for the purpose of admission to the Honours degree.

5.7.2 A candidate may, subject to the approval by the Head of the School concerned, proceed to the Honours degree in one of the following courses

ANAT SC 4000A/B Honours Anatomical Sciences

ANIML SC 4004 ARW/BRW Honours Animal Science (BSc)

BIOCHEM 4000A/B Honours Biochemistry

CHEM 4000A/B Honours Chemistry

ENV BIOL 4000A/B Honours Environmental Biology

ENV BIOL 4002A/B Honours Botany and Geology

ENV BIOL 4003A/B Honours Rangeland Science and Management S

GENETICS 4000A/B Honours Genetics

GEOLOGY 4000A/B Honours Geology

GEOLOGY 4001A/B Honours Geophysics

GEOLOGY 4002A/B Honours Geology and Botany

HORTICUL 4003AWT/BWT Honours Wine and Horticulture (BSc)

MICRO 4000A/B Honours Microbiology and Immunology

PETROL 4000ATB/BTB Honours Petroleum Geology and Geophysics

PHARM 4000A/B Honours Pharmacology

PHYSICS 4000A/B Honours Physics

PHYSICS 4001A/B Honours Mathematical Physics

PHYSIOL 4000A/B Honours Physiology

PLANT SC 4012 AWT/BWT Honours Plant and Pest Science (BSc)

5.7.3 A candidate may, subject to the approval of the Faculty in each case, proceed to the Honours degree in a course taught in another Faculty. Such candidates must consult the Head of the School concerned and apply, in writing, to the Faculty, before 30 November in the preceding year for admission to the Honours program.

5.7.4 The work of the Honours program must be completed in one year of full-time study, except where, on the recommendation of the Head/s of the School/s concerned, the Faculty may permit a candidate to complete the work for the Honours degree over two consecutive years, but no more, under such conditions as it may determine.

5.7.5. A candidate who satisfies the requirements for Honours shall be awarded the Honours degree, but the Faculty shall decide within which of the following classes and divisions the degree shall be awarded:

1	First Class
2A	Second Class div A
2B	Second Class div B
3	Third Class
NAH	Not awarded.

5.8 Graduation

Subject to Chapter 89 of the Statutes, candidates who have satisfied the requirements for any award of the University shall be admitted to that award at a graduation ceremony for the purpose.

6 Special Circumstances

When in the opinion of the Faculty special circumstances exist, the Council, on the recommendation of the Faculty in each case, may vary any of the provisions of the Academic Program Rules for any particular award.

Bachelor of Science (Agricultural Science)

Academic Program Rules

These rules should be read in conjunction with Academic Program rules parts 2, 3 and 4 of the Bachelor of Science

1 General

There shall be a degree of Bachelor of Science (Agricultural Science)

2 Qualification Requirements

2.1 Unacceptable combinations of courses

No candidate will be permitted to count towards an award any course, together with any other course, which, in the opinion of the Faculty, contains a substantial amount of the same material, and no course or portion of a course may be counted twice towards an award.

Note: A list of unacceptable combinations of courses is available from the Faculty of Sciences.

2.2 To qualify for the degree a candidate shall pass courses, listed in 2.3 below, to the value of 72 units, which satisfy the following requirements:

(a) A candidate shall present passes in courses to the value of 24 units at each of level I, II and III.

(b) A candidate shall complete a major in a discipline as set out in 2.3 below.

2.3 Academic program

2.3.1 Level I

Passes in Level I courses which shall include:

semester 1

CHEM 1101 Foundations of Chemistry 1A	3
or	
CHEM 1100 Chemistry IA	3
BIOLOGY 1101 Biology I: Molecules, Genes and Cells A	3
or	
BIOLOGY 1102 Biology I: Molecules, Genes and Cells B	3
AGRIC 1000 Perspectives on Modern Agriculture	3

semester 2

CHEM 1201 Foundations of Chemistry 1B	3
or	
CHEM 1200 Chemistry IB	3
BIOLOGY 1202 Biology 1:Organisms	3
GEOLOGY 1200 Earth's Environment 1	3
STATS 1004 Statistical Practice 1 (Life Sciences)*	3

together with an additional Level I course to the value of 3 points chosen from:

AGRIBUS 1009RW Rural Business Planning A	3
CHEM ENG 1001 Engineering Physics	3
FOODT&M 1000RG Introduction to Food Technology	3
MATHS 1013 Mathematics 1MA	3
PHYSICS 1101 Physics for Life and Earth Sciences 1A	3
WINEMKTG 1013WT Wine and Food Marketing Principles	3
WINEMKTG 1026EX Microeconomic Principles	3

or from level 1 courses offered in the Faculty of Sciences, or in other departments and schools in the University.

* Statistical Practice I offered in Semester 1 can be substituted if required.

2.3.2 Level II

Passes in Level II courses which shall include:

semester 1

BIOCHEM 2106WT Biochemistry II (Agriculture) A	4
ENV BIOL 2006 Botany II	4
SOIL&WAT 2012WT Soil and Water Resources	4

semester 2

ANIML SC 2029WT Genes and Inheritance	4
ANIML SC 2030RW Livestock Production Science	4
PLANT SC 2003WT Microbiology & Invertebrate Biology	4

2.3.3 Level III

Passes in Level III courses selected as follows:

Group 1

(a) passes (not conceded passes) in:

APP ECOL 3017WT Communication in the Agrifood Industries	3
BIOMET 3000WT Agricultural Experimentation	3

Group 2

(b) passes in Level III courses to the value of 9 units in one of the following areas:

Crop and Pasture Science

Horticulture Science

Land Management and Soil Conservation

Livestock Science

Pest Science

Group 3

(c) passes in a further Level III courses to the value of 9 units chosen from other discipline majors or from other programs within the Faculty, with the approval of the BSc(Ag.Sc.) program coordinator.

2.4 The Honours Degree

Candidates completing the Bachelor of Science (Agricultural Science) to a standard which is acceptable to the Faculty may proceed to the Honours degree in one of the following areas:

Crop and Pasture Science

Horticulture Science

Land Management and Soil Conservation

Livestock Science

Pest Science

2.5 Graduation

Subject to Chapter 89 of the Statutes, candidates who have satisfied the requirements for any award of the University shall be admitted to that award at a graduation ceremony for the purpose.

3 Special Circumstances

When in the opinion of the Faculty special circumstances exist, the Council, on the recommendation of the Faculty in each case, may vary any of the provisions of the Academic Program Rules for any particular award.

Bachelor of Science (Animal Science)

Academic Program Rules

These rules should be read in conjunction with Academic Program rules parts 2, 3 and 4 of the Bachelor of Science

1 General

There shall be a degree of Bachelor of Science (Animal Science)

2 Qualification Requirements

2.1 Unacceptable combinations of courses

No candidate will be permitted to count towards an award any course, together with any other course, which, in the opinion of the Faculty, contains a substantial amount of the same material, and no course or portion of a course may be counted twice towards an award.

Note: A list of unacceptable combinations of courses is available from the Faculty of Sciences.

2.2 To qualify for the degree a candidate shall pass courses, listed in 2.3 below, to the value of 72 units, which satisfy the following requirement:

(a) a candidate shall present passes in courses to the value of 24 units at each of Level I, II and III.

2.3 Academic program

2.3.1 Level I

Passes in Level I courses which shall include:

semester 1

AGRIC 1000RW Perspectives on Modern Agriculture	3
BIOLOGY 1101 Biology 1: Molecules,Genes and Cells A	3
or	
BIOLOGY 1102 Biology 1: Molecules, Genes and Cells B	3
CHEM 1100 Chemistry IA	3
or	
CHEM 1101 Foundations of Chemistry 1A	3
PHYSICS 1101 Physics for the Life and Earth Sciences IA	3
or	
Env Biol 1002 Environmental Biology I	3

semester 2

BIOLOGY 1202 Biology I : Organisms	3
CHEM 1200 Chemistry IB	3
or	
CHEM 1201 Foundations of Chemistry 1B	3
ANIML SC 1014RW Fauna Management I	3
STATS 1004 Statistical Practice 1 (Life Sciences)	3
or	
PHYSICS 1201 Physics for the Life and Earth Sciences 1B	3

2.3.2 Level II

Passes in Level II courses which shall include:

semester 1

ANIML SC 2031 Companion Animal & Equine Studies	4
BIOCHEM 2106 Biochemistry II (Agriculture) A	4
ENV BIOL 2001 Evolutionary Biology EBII	4

semester 2

ANIML SC 2029WT Genes and Inheritance	4
ANIML SC 2030RW Livestock Production Science	4
PLANT SC 2003WT Microbiology and Invertebrate Biology	4

2.3.3 Level III

Passes in Level III courses which shall include:

semester 1

ANIML SC 3017RW Comparative Animal Physiology	3
ANIML SC 3045RW Animal Breeding & Genetics	3
ENV BIOL 3023 Conservation Biology	3

semester 2

ANIML SC 3015RW Animal Nutrition & Metabolism	3
ANIML SC 3016RW Animal Health & Welfare	3

and further courses in Animal Welfare and Ethics, and Animal Behaviour.

2.4 The Honours Program

Refer to Academic Program rule 5.7 for the degree of Bachelor of Science.

2.5 Graduation

Subject to Chapter 89 of the Statutes, candidates who have satisfied the requirements for any award of the University shall be admitted to that award at a graduation ceremony for the purpose.

3 Special Circumstances

When in the opinion of the Faculty special circumstances exist, the Council, on the recommendation of the Faculty in each case, may vary any of the provisions of the Academic Program Rules for any particular award.

Bachelor of Science (Biomedical Science)

Academic Program Rules

These rules should be read in conjunction with Academic Program rules parts 2, 3 and 4 of the Bachelor of Science

1 General

There shall be a degree of Bachelor of Science (Biomedical Science)

2 Qualification Requirements

2.1 Unacceptable combinations of courses

No candidate will be permitted to count towards an award any course, together with any other course, which, in the opinion of the Faculty, contains a substantial amount of the same material, and no course or portion of a course may be counted twice towards an award.

Note: A list of unacceptable combinations of courses is available from the Faculty of Sciences.

2.2 To qualify for the degree a candidate shall pass courses, listed in 2.3 below, to the value of 72 units, which satisfy the following requirements:

(a) A candidate shall present passes in level 1 courses to the value of not more than 24 units

(b) A candidate shall present passes in level 2 courses to the value of not less than 20 units

(c) A candidate shall present passes in level 3 courses to the value of not less than 24 units

2.3 Academic program

2.3.1 Level I

Passes in Level I courses which shall include:

CHEM 1100 Chemistry IA 3

and

CHEM 1200 Chemistry IB 3

BIOLOGY 1101 Biology 1: Molecules,Genes and Cells A 3

or

BIOLOGY 1102 Biology 1: Molecules, Genes and Cells B 3

and

BIOLOGY 1201 Biology 1: Human Perspectives 3

together with additional level I courses to the value of 12 units selected in accordance with Academic Program Rules 5.3 and 5.6 for the degree of Bachelor of Science.

2.3.2 Level II

Passes in Level II courses to the value of not less than 20 units selected as follows:

Group 1

Biomedical Science courses to the value of 8 units comprising:

either

GENETICS 2106 Genetics IIA (Biomedical Science) 4

and

GENETICS 2206 Genetics IIB (Biomedical Science) 4

or

MICRO 2101 Microbiology II (Biomedical Science) 4

and

MICRO 2201 Immunology and Virology II (Biomedical Science) 4

or

PHYSIOL 2101 Human Physiology IIA (Biomedical Science) 4

and

PHYSIOL 2201 Human Physiology IIB (Biomedical Science) 4

Group 2

(i) Level II courses to the value of not less than 8 units from the following:

ANAT SC 2104 Cells and Tissues II 4

and

ANAT SC 2105 Comparative Anatomy of Body Systems II 4

BIOCHEM 2100 Biochemistry IIA 4

and

BIOCHEM 2200 Biochemistry IIB 4

MICRO 2004 Microbiology II 4

and

MICRO 2005 Immunology and Virology II 4

GENETICS 2100 Genetics IIA: Foundations of Genetics 4

and

GENETICS 2200 Genetics IIB: Function and Diversity of Genomes 4

PHYSIOL 2003 Human Physiology IIA: Heart, Lungs and Circulation 4

and

PHYSIOL 2004 Human Physiology IIB: Homeostasis and Nervous System 4

(ii) additional level II courses selected from those offered for the degree of Bachelor of Science, listed in 5.6.3 and 5.6.4, chosen with the approval of the program coordinator

2.3.3 Level III

Passes in Level III courses to the value of not less than 24 units selected as follows:

(i) 12 units from the following which shall constitute a major in Biomedical Science:

GENETICS 3000 Molecular Genetics: Genome and Gene Expression 6

and

GENETICS 3005 Developmental and Medical Genetics (Biomedical Science) 6

MICRO 3102 Infection and Immunity A (Biomedical Science) 6

and

MICRO 3202 Infection and Immunity B (Biomedical Sclence) 6

PHYSIOL 3102 Human Physiology IIIA (Biomedical Science) 6

and

PHYSIOL 3202 Human Physiology IIIB (Biomedical Science) 6

(ii) Level III courses to the value of not less than 12 units selected from courses listed in Academic Program Rule 5.6.5 of the Bachelor of Science in Anatomical Sciences, Biochemistry, Chemistry, Clinical and Experimental Pharmacology, Genetics, Microbiology or Physiology.

2.4 The Honours Program

Refer to Academic Program rule 5.7 for the degree of Bachelor of Science

2.5 Graduation

Subject to Chapter 89 of the Statutes, candidates who have satisfied the requirements for any award of the University shall be admitted to that award at a graduation ceremony for the purpose.

3 Special Circumstances

When in the opinion of the Faculty special circumstances exist, the Council, on the recommendation of the Faculty in each case, may vary any of the provisions of the Academic Program Rules for any particular award.

Bachelor of Science (Biotechnology)

Academic Program Rules

These rules should be read in conjunction with Academic Program rules parts 2, 3 and 4 of the Bachelor of Science

1 General

There shall be a degree of Bachelor of Science (Biotechnology)

2 Qualification Requirements

2.1 Unacceptable combinations of courses

No candidate will be permitted to count towards an award any course, together with any other course, which, in the opinion of the Faculty, contains a substantial amount of the same material, and no course or portion of a course may be counted twice towards an award.

Note: A list of unacceptable combinations of courses is available from the Faculty of Sciences.

2.2 To qualify for the degree a candidate shall pass courses, listed in 2.3 below, to the value of at least 72 units, which satisfy the following requirements:

(a) A candidate shall present passes in Level I courses to the value of not less than 21 units

(b) A candidate shall present passes in Level II courses to the value of not less than 22 units

(c) A candidate shall present passes in Level III courses to the value of not less than 24 units as follows

2.3 Academic program

2.3.1 Level I

Passes in Level I courses which shall include:

CHEM 1100 Chemistry IA	3
and	
CHEM 1200 Chemistry IB	3
BIOLOGY 1101 Biology I: Molecules, Genes and Cells A	3
or	
BIOLOGY 1102 Biology I: Molecules, Genes and Cells B	3
and	
BIOLOGY 1201 Biology I: Human Perspectives	3
and/or	
BIOLOGY 1202 Biology I: Organisms	3
BIOTECH 1000 Introduction to Biotechnology	3
CHEM ENG 1004 Introduction to Bio-processing	3

together with additional Level I courses to a minimum value of 6 units, selected in accordance with Specific Academic Program Rules 5.3 and 5.6 for the degree of Bachelor of Science.

2.3.2 Level II

(a) passes in the compulsory courses:

BIOCHEM 2205 Biochemistry II (Biotechnology) B	4
BIOTECH 2005 Principles of Biotechnology II	4
MICRO 2002 Microbiology II (Biotechnology)	4

(b) passes in Level II courses to the value of not less than 10 units, selected from:

BIOCHEM 2105 Biochemistry II (Biotech) A	4
MICRO 2203 Immunology and Virology II (Biotechnology)	4

or in accordance with Academic Program Rule 5.6 for the degree of Bachelor of Science, or selected courses listed for the Bachelor degree of Engineering (Chemical), or courses selected in consultation with and subject to the approval of the program coordinator.

2.3.3 Level III

(a) passes in the compulsory courses:

BIOCHEM 3000 Molecular and Structural Biology III	6
BIOTECH 3000 Biotechnology Practice III	6

(b) passes in additional Level III courses to the value of not less than 12 units selected in accordance with Specific Academic Program Rule 5.6 for the degree of Bachelor of Science, or selected courses listed for the Bachelor degree of Engineering (Chemical), or courses selected in consultation with and subject to the approval of the program coordinator.

2.4 The Honours Program

Refer to Academic Program rule 5.7 for the degree of Bachelor of Science

2.5 Graduation

Subject to Chapter 89 of the Statutes, candidates who have satisfied the requirements for any award of the University shall be admitted to that award at a graduation ceremony for the purpose.

3 Special Circumstances

When in the opinion of the Faculty special circumstances exist, the Council, on the recommendation of the Faculty in each case, may vary any of the provisions of the Academic Program Rules for any particular award.

Bachelor of Science (Ecochemistry)

Academic Program Rules

These rules should be read in conjunction with Academic Program rules parts 2, 3 and 4 of the Bachelor of Science

1 General

There shall be a degree of Bachelor of Science (Ecochemistry).

2 Qualification Requirements

2.1 Unacceptable combinations of courses

No candidate will be permitted to count towards an award any course, together with any other course, which, in the opinion of the Faculty, contains a substantial amount of the same material, and no course or portion of a course may be counted twice towards an award.

Note: A list of unacceptable combinations of courses is available from the Faculty of Sciences.

2.2 To qualify for the degree a candidate shall pass courses, listed below, to the value of 72 units pass, which satisfy the following

(a) A candidate shall present passes in courses to the value of 24 units at each of Level I, II and III

2.3 Academic Program

2.3.1 Level 1

Passes in Level 1 courses to the value of 18 units which shall include:

BIOLOGY 1101 Biology I: Molecules, Genes and Cells A	3
or	
BIOLOGY 1102 Biology I: Molecules, Genes and Cells B	3
BIOLOGY 1202 Biology 1:Organisms	3
or	
ENV BIOL 1002 Environmental Biology I	3
CHEM 1100 Chemistry IA	3
or	
CHEM 1101 Foundations of Chemistry 1A	3
CHEM 1200 Chemistry IB	3
or	
CHEM 1201 Foundations of Chemistry 1B	3
GEOLOGY 1100 Earth's Interior 1	3
GEOLOGY 1200 Earth's Environment 1	3

together with additional Level I courses to the value of 6 units selected in accordance with Academic Program Rules 5.3, 5.6.1 and 5.6.2 for the degree of Bachelor of Science but not including BIOLOGY 1201 Biology I: Human Perspectives.

Note: Students may be permitted to enrol in both BIOLOGY 1202 Biology I: Organism and ENV BIOL 1002 Environmental Biology I, but only with prior approval from the Program Coordinator.

2.3.2 Level II

Passes in Level 2 courses which include:

(i) passes in core courses

semester 1

CHEM 2100 Chemistry IIA	4
CHEM 2003 Environmental Chemistry II	4

semester 2

CHEM 2200 Chemistry IIB	4

plus an additional course in Analytical Chemistry.

(ii) passes in Level II courses to the value of 8 units from the list below

SOIL&WAT 2012WT Soil & Water Resources	4

or selected in accordance with Academic Program Rule 5.6.3 for the degree of Bachelor of Science, in consultation with and subject to the approval of the program coordinator.

2.3.3 Level III

Passes in Level 3 courses which shall include:

(i) passes in core courses

CHEM 3006 Topics in Chemistry IIIB	6
CHEM 3109 Chemical Synthesis IIIA	6
CHEM 3110 Chemistry of Materials IIIA	6

(ii) passes in Level III courses to the value of 6 units taken from the list below:

ENV BIOL 3015 Ecosystem Modelling for Environmental Management III	3
GEOLOGY 3010 Remote Sensing (S)	3
SOIL&WAT 3002 Soil Management & Conservation	3
SOIL&WAT 3004WT Environmental Toxicology and Remediation	3
SOIL&WAT 3007WT GIS for Environmental Management	3

SOIL&WAT 3012WT Soil Water Management	3
SOIL&WAT 3016WT Soil Ecology and Nutrient Cycling	3

or selected in accordance with Academic Program Rule 5.6.5 for the degree of Bachelor of Science, in consultation with and subject to the approval of the program coordinator.

2.4 The Honours Program

Refer to Academic Program Rule 5.7 for the degree of Bachelor of Science.

2.5 Graduation

Subject to Chapter 89 of the Statutes, candidates who have satisfied the requirements for any award of the University shall be admitted to that award at a graduation ceremony for the purpose.

3 Special Circumstances

When in the opinion of the Faculty special circumstances exist, the Council, on the recommendation of the Faculty in each case, may vary any of the provisions of the Academic Program Rules for any particular award.

Bachelor of Science (Evolutionary Biology)

Academic Program Rules

These rules should be read in conjunction with Academic Program rules parts 2, 3 and 4 of the Bachelor of Science

1 General

There shall be a degree of Bachelor of Science (Evolutionary Biology).

2 Qualification Requirements

2.1 Unacceptable combinations of courses

No candidate will be permitted to count towards an award any course, together with any other course, which, in the opinion of the Faculty, contains a substantial amount of the same material, and no course or portion of a course may be counted twice towards an award.

Note: A list of unacceptable combinations of courses is available from the Faculty of Sciences.

2.2 To qualify for the degree a candidate shall pass courses, listed below, to the value of 72 units pass, which satisfy the following

(a) A candidate shall present passes in courses to the value of 24 units at each of Level I, II and III

(b) A candidate shall complete a major by completing prescribed courses to the value of 16 units at Level II and 18 units at Level III as set out in 2.3.2. and 2.3.3 below

2.3 Academic Program

2.3.1 Level 1

Passes in Level 1 courses to the value of 18 units which shall include:

semester 1

BIOLOGY 1101 Biology I: Molecules, Genes & Cells A	3
or	
BIOLOGY 1102 Biology I: Molecules, Genes & Cells B	3
CHEM 1100 Chemistry IA	3
or	
CHEM 1101 Foundations of Chemistry 1A	3
GEOLOGY 1100 Earth's Interior 1	3

semester 2

BIOLOGY 1202 Biology 1:Organisms	3
CHEM 1200 Chemistry IB	3
or	
CHEM 1201 Foundations of Chemistry 1B	3
GEOLOGY 1200 Earth's Environment 1	3

together with additional Level I courses, of which at least 3 units must be chosen from:

semester 1

MATHS 1011 Mathematics IA	3
MATHS 1013 Mathematics IMA	3
PHYSICS 1101 Physics for the Life & Earth Sciences IA	3
STATS 1000 Statistical Practice I*	3

semester 2

MATHS 1012 Mathematics IB	3
MATHS 1014 Mathematics IMB	3
PHYSICS 1201 Physics for the Life & Earth Sciences IB	3
STATS 1004 Statistical Practice 1 (Life Sciences)	3

with any additional course selected from the level I courses available under Academic Program Rules 5.3, 5.6.1 and 5.6.2 for the degree of Bachelor of Science.

* may be taken in either semester 1 or 2

2.3.2 Level II

Passes in Level 2 courses as follows.

for a major in Palaeontology, 12 units from:

ENV BIOL 2000 Zoology EB II	4
or	
ENV BIOL 2002 Botany EBII	4
ENV BIOL 2001 Evolutionary Biology EBII	4
GEOLOGY 2007 Sedimentary and Structural Geology II	4

with electives to the value of 12 units chosen from:

CHEM 2003 Environmental Chemistry II	4
ENV BIOL 2000 Zoology EB II	4
ENV BIOL 2002 Botany EBII	4
GENETICS 2100 Genetics IIA: Foundations of Genetics*	4
GENETICS 2200 Genetics IIB: Function & Diversity Genomes*	4
GEOLOGY 2008 Surficial Geology II	4

* Students wishing to enrol in GENETICS 3006 Human, Developmental & Evolutionary Genetics as part of the Level III Palaeontology major must enrol in both GENETICS 2100 Genetics IIA: Foundations of Genetics and GENETICS 2200 Genetics IIB: Function & Diversity Genomes.

For a major in Molecular Evolution, 16 units from:

ENV BIOL 2000 Zoology EB II	4
or	
ENV BIOL 2002 Botany EBII	4
ENV BIOL 2001 Evolutionary Biology EBII	4
GENETICS 2100 Genetics IIA: Foundations of Genetics	4
GENETICS 2200 Genetics IIB: Function & Diversity Genomes	4

with electives to the value of 8 units chosen from:

CHEM 2003 Environmental Chemistry II	4
ENV BIOL 2000 Zoology EB II	4
ENV BIOL 2002 Botany EBII	4
GEOLOGY 2007 Sedimentary and Structural Geology II	4
GEOLOGY 2008 Surficial Geology II	4

2.3.3 Level III

Passes in Level 3 courses as follows:

for a major in Palaeontology:

semester 1

ENV BIOL 3002 Australian Biota: Past, Present & Future	3

semester 2

ENV BIOL 3007 Systematics & Biodiversity	3

with electives to the value of 6 units chosen from:

ENV BIOL 3005 Palaeobiology III	3

plus an additional course in Vertebrate Palaeontology

GEOLOGY 3014 Surficial Geology III	3

plus elective courses to the value of 9 units taken from courses listed in Program Rule 2.3.3 for this degree, in addition to courses listed under Academic Program Rule 5.6.5 for the degree of Bachelor of Science. Suggested offerings include:

GEOLOGY 3010 Remote Sensing (S)	3
GEOLOGY 3013 Tectonics III	3
GEOLOGY 3015 Surficial Geology III Field Program	3

For a major in Molecular Evolution:

semester 1

ENV BIOL 3002 Australian Biota: Past, Present & Future	3

semester 2

ENV BIOL 3007 Systematics & Biodiversity	3
GENETICS 3006 Human, Developmental and Evolutionary Genetics	6

plus an additional course in Research Issues in Evolutionary Biology

with electives to the value of 9 units taken from courses listed under Academic Program Rule 5.6.5 for the degree of Bachelor of Science. Suggested electives include:

summer semester

ENV BIOL 3005 Palaeobiology III	3

semester 1

ENV BIOL 3006 Research Methods in Environmental Biology	3
GENETICS 3000 Molecular Genetics: Genomes & Gene Expression	6
GEOLOGY 3013 Tectonics III	3
GEOLOGY 3014 Surficial Geology III	3

2.4 The Honours Program

Refer to Academic Program rule 5.7 for the degree of Bachelor of Science.

3 Graduation

Subject to Chapter 89 of the Statutes, candidates who have satisfied the requirements for any award of the University shall be admitted to that award at a graduation ceremony for the purpose.

4 Special Circumstances

When in the opinion of the Faculty special circumstances exist, the Council, on the recommendation of the Faculty in each case, may vary any of the provisions of the Academic Program Rules for any particular award.

Bachelor of Science (High Performance Computational Physics)(Honours)

Academic Program Rules

These rules should be read in conjunction with Academic Program rules parts 2, 3 and 4 of the Bachelor of Science

1 General

There shall be a degree of Bachelor of Science (High Performance Computational Physics) (Honours)

2 Qualification Requirements

2.1 Unacceptable combinations of courses

No candidate will be permitted to count towards an award any course, together with any other course, which, in the opinion of the Faculty, contains a substantial amount of the same material, and no course or portion of a course may be counted twice towards an award.

Note: A list of unacceptable combinations of courses is available from the Faculty of Sciences.

2.2 To qualify for the degree a candidate shall pass courses, listed in 2.3 below, to the value of 96 units, which satisfy the following requirements:

(a) A candidate shall present passes in Level I courses to the value of not more than 24 units

(b) A candidate shall present passes in Level II courses to the value of not less than 20 units

(c) A candidate shall present passes in Level III courses to the value of not less than 24 units

(d) A candidate shall present passes in Level IV courses to the value of not less than 24 units.

2.3 Academic program

2.3.1 Level I

Passes in Level I courses which shall include:

semester 1

PHYSICS 1100 Physics I A	3
MATHS 1011 Mathematics IA	3
COMP SCI 1008 Computer Science IA	3

semester 2

PHYSICS 1200 Physics IB	3
MATHS 1012 Mathematics IB	3
COMP SCI 1009 Computer Science IB	3

together with additional level I courses to the value of 6 units selected in accordance with the Academic Program Rule 5.3 and 5.6 for the degree of Bachelor of Science. A selection from the following courses is recommended:

semester 1

CHEM 1100 Chemistry I A	3
APP MTH 1000 Scientific Computing I	3
ELEC ENG 1006 Electrical Engineering I	3

semester 2

CHEM 1200 Chemistry IB	3

2.3.2 Level II

Passes in Level II courses to the value of not less than 20 units which shall include :

semester 1

APP MATH 2000 Differential Equations and Fourier Series II	2
APP MATH 2002 Vector Analysis & Complex Analysis *	2
PHYSICS 2001 Classical Mechanics II	2
PHYSICS 2100 Physics II A	4

semester 2

PHYSICS 2002 Classical Fields and Mathematical Methods	2
PHYSICS 2200 Physics II B	4

and at least one of

APP MTH 2003 Modelling with Differential Equations II	2
COMP SCI 2003 Numerical Methods	3

together with additional level II courses selected in accordance with the Academic Program Rule 5.6 for the degree of Bachelor of Science and subject to the approval of the Program Coordinator. A selection from:

COMP SCI 2000 Computer Systems	2
PURE MATH 2001 Complex Analysis II	2
PURE MATH 2002 Algebra II	2
PURE MATH 2005 Multivariable Calculus II	2

and other Level II courses in Computer Science is recommended.

* also available in semester 2.

2.3.3 Level III

Passes in Level III courses to the value of at least 24 units which shall include:

semester 1

PHYSICS 3003 Mathematical Physics	2
PHYSICS 3004 Quantum Mechanics III	3

semester 2

PHYSICS 3000 Computational Physics	2
PHYSICS 3006 Advanced Dynamics and Relativity	3
PHYSICS 3007 Introduction to Physics Research	2
PHYSICS 3009 Statistical Mechanics	2
PHYSICS 3022 Applied Quantum Mechanics III	2

together with additional level III courses to the value of at least 8 units selected in accordance with the Academic Program Rule 5.6 for the degree of Bachelor of Science. A selection from

APP MTH 3000 Computational Mathematics	3
PHYSICS 3001 Electromagnetism and Optics III	3

and other level III courses in Computer Science, Physics, and Pure & Applied Mathematics as recommended.

2.3.4 Level IV

An acceptable standard, in accordance with the Academic Program Rule 5.7 for the Bachelor of Science for Honours degrees, in

PHYSICS 4000A/B Honours Physics

or

PHYSICS 4001A/B Honours Mathematical Physics

(including some lecture content from)

COMP SCI 4999A/B Honours Computer Science

2.4 Graduation

Subject to Chapter 89 of the Statutes, candidates who have satisfied the requirements for any award of the University shall be admitted to that award at a graduation ceremony for the purpose.

3 Special Circumstances

When in the opinion of the Faculty special circumstances exist, the Council, on the recommendation of the Faculty in each case, may vary any of the provisions of the Academic Program Rules for any particular award.

Bachelor of Science (Jurisprudence)

Academic Program Rules

These rules should be read in conjunction with Academic Program rules parts 2, 3 and 4 of the Bachelor of Science

1 General

There shall be a degree of Bachelor of Science (Jurisprudence)

2 Qualification Requirements

2.1 Unacceptable combinations of courses

No candidate will be permitted to count towards an award any course, together with any other course, which, in the opinion of the Faculty, contains a substantial amount of the same material, and no course or portion of a course may be counted twice towards an award.

Note: A list of unacceptable combinations of courses is available from the Faculty of Sciences.

2.2 To qualify for the degree a candidate shall pass courses to the value of 72 units pass, which satisfy the requirements of 2.3 and 2.4 below.

2.3 Academic program

A candidate shall pass courses to the value of at least 52 units from those listed in 5.6 under the Bachelor of Science which shall include:

(a) Level I courses to the value of not more than 24 units

(b) Level III courses to the value of not less than 12 units

(c) A major in a Science discipline as set out in 5.4

2.4 (a) A candidate shall present the Law course LAW 1001 Introduction to Australian Law

(b) A candidate shall present the Law course LAW 1003 Law of Contract

(c) A candidate shall present Law courses to the value of at least 12 units chosen from the following: LAW 1002 Law of Torts, LAW 1004 Law of Crime, LAW 1005 Property Law, and a 4 unit Law Elective

2.5 Credit towards the degree of Bachelor of Science (Jurisprudence) on account of previous studies in Law will be determined by the Faculty of Sciences in accordance with Faculty policy, subject to the requirements of these Academic Program Rules and to the following provisions:

(a) Law courses presented for 2.4(a) will count as 4 units at Level II

(b) Law courses presented for 2.4(b) will count as 4 units at Level II

(c) Law courses presented for 2.4(c) will count as 12 units at Level III.

2.6 Persons who have completed other qualifications, and graduates in other Faculties who wish to proceed to the degree of Bachelor of Science (Jurisprudence) and to count towards that degree appropriate courses which they have already presented for another qualification may do so subject to the following conditions:

They shall present a range of courses which fulfils the requirements of 2.3 above and which have not been presented for any other degree and which, in the opinion of the Faculty, do not contain a substantial amount of the same material as courses which have been presented for any degree.

2.7 There may be a classification of 'Conceded Pass' but a candidate may only present courses for which this result has been obtained up to a value of 4 units.

Notes (not forming part of the Academic Program Rules)

B.Sc.(Jur.)

1 The B.Sc. (Jurisprudence) is designed to serve two purposes:

(a) it allows students to incorporate in a Science degree a range of law studies including courses at third year level

(b) it is the route for students to take if they wish to obtain Science and Law degrees in a minimum time of five and a half years.

2 Students remain enrolled for the B.Sc. degree while taking Law courses. Students must complete all the requirements for the B.Sc.(Jur.) before they can obtain their LL.B. degree.

4 For students wishing to take the Degree of Bachelor of Science (Jurisprudence), the change of enrolment from Bachelor of Science to Bachelor of Science (Jurisprudence) normally takes place in the year following completion of the course LAW1001 Introduction to Australian Law. The transfer of enrolment must be approved by a Program Adviser for the Faculty of Sciences and by a Program Adviser for the School of Law.

5 Pattern of Study

Full-time students will normally take their courses according to the following scheme, which involves some overload in first year and possibly in third year:

First year

Level I courses to the value of 21 units, from those listed in Bachelor of Science Academic Program Rule 5.6.1 and 5.6.2 plus LAW 1001 Introduction to Australian Law.

Second year

Level II courses to the value of 16 units from those listed in Bachelor of Science Academic Program Rule 5.6.3 and 5.6.6 plus LAW 1002 Law of Torts and LAW1003 Law of Contract.

Third year

Level I courses to the value of 3 units from those listed in Bachelor of Science Academic Program Rule 5.6 plus Level III courses to the value of 12 units from those listed in Academic Program Rule 5.6 including a major in a Science discipline plus Law courses to the value of 8 units from those listed in 2.4 above with the advice of the Law Program Adviser.

6 Advice from the School of Law

Before enrolment in the Law courses in the third year of the above scheme, students should consult the Law Program Adviser. This is particularly important for students who wish to proceed to the LL.B. degree. Although Law courses in the third year as above to the value of 12 units are sufficient for the purposes of the degree of B.Sc. (Jurisprudence), completion of the LL.B. degree in minimum time involves some additional overload in the third year.

7 Credit on account of previous studies in the University of Adelaide (Policy of the Faculty of Sciences)

(a) Candidates who hold an LL.B. degree and hold no other degree will be given status for 2.4(a) and 2.4(b).

(b) Candidates who hold an LL.B. degree and also a degree in a Faculty other than Law will be given status for 2.4(a) and 2.4(b) and may, in addition, be granted credit for the purposes of 2.4 on account of appropriate studies for a non-Law degree. Such candidates will be required as a minimum to complete Level III courses from Bachelor of Science Academic Program Rule 5.6 to the value of 12 units including a major in a Science discipline.

(c) Candidates may also be granted credit towards the degree of B.Sc. (Jurisprudence) on account of studies not presented for a degree.

8 Credit on account of studies in other Institutions (Policy of the Faculty of Sciences)

With special permission of the Faculty, candidates may be permitted to take equivalent courses at another institution for credit to the Adelaide degree of B.Sc. (Jurisprudence). Candidates may also be granted credit towards the Adelaide degree on account of work already completed at another institution but not presented for another degree or award. The minimum requirements for such candidates is that all Level III courses required by 2.3 and 2.4 (that is, Level III Science courses to the value of 12 units, and the Law courses indicated in 2.4(b) to the value of 12 units) should have been completed after candidates have gained admission to the program for the Bachelor of Science and to the program for the Bachelor of Law at the University of Adelaide. Approval of credit as above for the purposes of the degree of B.Sc. (Jurisprudence) does not imply acceptability for the later purposes of the LL.B. degree, and candidates wishing to proceed to the LL.B. degree should therefore consult the Law Program Adviser.

2.8 Graduation

Subject to Chapter 89 of the Statutes, candidates who have satisfied the requirements for any award of the University shall be admitted to that award at a graduation ceremony for the purpose.

3 Special Circumstances

When in the opinion of the Faculty special circumstances exist, the Council, on the recommendation of the Faculty in each case, may vary any of the provisions of the Academic Program Rules for any particular award.

Bachelor of Science (Molecular and Drug Design)

Academic Program Rules

These rules should be read in conjunction with Academic Program rules parts 2, 3 and 4 of the Bachelor of Science

1 General

There shall be a degree of Bachelor of Science (Molecular and Drug Design)

2 Qualification Requirements

2.1 Unacceptable combinations of courses

No candidate will be permitted to count towards an award any course, together with any other course, which, in the opinion of the Faculty, contains a substantial amount of the same material, and no course or portion of a course may be counted twice towards an award.

Note: A list of unacceptable combinations of courses is available from the Faculty of Sciences.

2.2 To qualify for the degree a candidate shall pass courses listed in 2.3 below, to the value of 72 units, which satisfy the following requirement:

(a) A candidate shall present passes in courses to the value of 24 units at each of Level I, II and III.

2.3 Academic program

2.3.1 Level I

Passes in Level I courses which shall include:

semester 1

CHEM 1100 Chemistry IA	3
BIOLOGY 1101 Biology 1: Molecules, Genes, and Cells A	3
or	
BIOLOGY 1102 Biology 1: Molecules, Genes, and Cells B	3

semester 2

CHEM 1200 Chemistry 1B	3
BIOLOGY 1201 Biology 1: Human Perspectives	3
STATS 1000 Statistical Practice I*	3

together with additional level I courses to the value of 9 units selected in accordance with the Academic Program Rules 5.3 and 5.6 for the degree of Bachelor of Science.

*STATS 1000 Statistical Practice 1 may be taken in either semester 1 or 2

2.3.2 Level II

Passes in Level II courses which shall include:

Group I

(i) passes in core courses:

semester 1

CHEM 2106 Chemistry IIA (Mol. Drug Des.)	4
BIOCHEM 2100 Biochemistry IIA	4

semester 2

CHEM 2206 Chemistry IIB (Mol. Drug Des.)	4
BIOCHEM 2200 Biochemistry IIB	4

Group II

(ii) passes in Level II courses to the value of 8 units selected in accordance with Academic Program Rule 5.6 for the degree of Bachelor of Science.

(iii) Group II courses shall be selected in consultation with and subject to the approval of the program coordinator.

2.3.3 Level III

Passes in Level III courses which shall include:

Group I

(i) passes in the core courses:

semester 1

BIOCHEM 3000 Molecular & Structural Biology III	6
CHEM 3109 Chemical Synthesis IIIA	6

semester 2

CHEM 3209 Chemical Synthesis IIIB	6

Group II

(ii) passes in level III courses to the value of 6 units selected in accordance with Academic Program Rule 5.6 for the degree of Bachelor of Science.

(iii) Group II courses shall be selected in consultation with and subject to the approval of the program coordinator.

A candidate shall complete a major in Chemistry, comprising passes (not conceded passes) in any courses to the value of 9 units selected from Level III courses taught by Chemistry as defined in Academic Program Rule 5.4 of the degree of Bachelor of Science.

2.4 The Honours Program

Refer to Academic Program rule 5.7 for the degree of Bachelor of Science

2.5 Graduation

Subject to Chapter 89 of the Statutes, candidates who have satisfied the requirements for any award of the University shall be admitted to that award at a graduation ceremony for the purpose.

3 Special Circumstances

When in the opinion of the Faculty special circumstances exist, the Council, on the recommendation of the Faculty in each case, may vary any of the provisions of the Academic Program Rules for any particular award.

Bachelor of Science (Molecular Biology)

Academic Program Rules

These rules should be read in conjunction with Academic Program rules parts 2, 3 and 4 of the Bachelor of Science

1 General

There shall be a degree of Bachelor of Science (Molecular Biology)

2 Qualification Requirements

2.1 Unacceptable combinations of courses

No candidate will be permitted to count towards an award any course, together with any other course, which, in the opinion of the Faculty, contains a substantial amount of the same material, and no course or portion of a course may be counted twice towards an award.

Note: A list of unacceptable combinations of courses is available from the Faculty of Sciences.

2.2 To qualify for the degree of Bachelor of Science (Molecular Biology) a candidate shall pass courses listed in 2.3 below to the value of at least 72 units which satisfy the following requirements:

(a) A candidate shall present passes in level 1 courses to the value of not more than 24 units

(b) A candidate shall present passes in level 2 courses to the value of not less than 20 units

(c) A candidate shall present passes in level 3 courses to the value of not less than 24 units

2.3 Academic program

2.3.1 Level I

Passes in Level I courses which shall include:

BIOLOGY 1101 Biology 1: Genes, Cells and Molecules A 3

or

BIOLOGY 1102 Biology 1: Genes, Cells and Molecules B 3

BIOLOGY 1201 Biology 1: Human Perspectives 3

CHEM 1100 Chemistry IA 3

CHEM 1200 Chemistry IB 3

together with additional level I courses to the value of 12 units selected in accordance with the Academic Program Rules 5.3 and 5.6 for the degree of Bachelor of Science.

2.3.2 Level II

Passes in Level II courses to the value of not less than 24 units selected as follows:

Group I

(i) a pass in the core courses

BIOCHEM 2102 Advanced Molecular Biology A 2

and

BIOCHEM 2202 Advanced Molecular Biology B 2

(ii) passes in additional Level II Molecular Biology courses to the value of 12 units selected from those below:

BIOCHEM 2101 Biochemistry II (Molecular Biology) A 3

and

BIOCHEM 2201 Biochemistry II (Molecular Biology) B 3

CHEM 2101 Chemistry IIA (Mol. Biol.) 3

and

CHEM 2201 Chemistry IIB (Mol. Biol.) 3

GENETICS 2102 Genetics IIA (Molecular Biology) 3

and

GENETICS 2202 Genetics IIB (Molecular Biology) 3

Group II

(iii) passes in Level II courses to a minimum value of 8 units from those listed in 5.6.3 Sciences courses, or 5.6.4 Mathematical and Computer Sciences courses

(iv) Group II courses shall be selected in consultation with and subject to the approval of the program coordinator

2.3.3 Level III

Passes in Level III courses to the value of not less than 24 units which shall include:

Group I

(i) the core course BIOCHEM 3002 Advanced Molecular Biology III (2 units)

(ii) one of the following Level III Molecular Biology courses:

BIOCHEM 3003 Genes and Proteins III (Molecular Biology) 4

GENETICS 3002 Molecular Genetics III (Molecular Biology) 4

Group II

(iii) passes in courses to the value of not less than 18 units chosen from those listed in 5.6.5 Sciences courses, or level III courses offered by the School of Mathematical and Computer Sciences

(iv) Group II courses shall be selected in consultation with and subject to the approval of the program coordinator.

2.3.4 A candidate shall complete a major as follows:

(a) a major in Molecular Biology, comprising passes (not conceded passes) in any courses to the value of 9 units selected from Level III courses taught by Chemistry and Molecular Biosciences, and the course PLANT SC 3009WT Plant Molecular Biology *or*

(b) a major in a Science discipline as defined in Academic Program Rule 5.4 of the degree of Bachelor of Science.

2.4 The Honours Program

Refer to Academic Program rule 5.7 for the degree of Bachelor of Science

2.5 Graduation

Subject to Chapter 89 of the Statutes, candidates who have satisfied the requirements for any award of the University shall be admitted to that award at a graduation ceremony for the purpose.

3 Special Circumstances

When in the opinion of the Faculty special circumstances exist, the Council, on the recommendation of the Faculty in each case, may vary any of the provisions of the Academic Program Rules for any particular award

Bachelor of Science (Nanoscience and Materials)

Academic Program Rules

These rules should be read in conjunction with Academic Program rules parts 2, 3 and 4 of the Bachelor of Science

1 General

There shall be a degree of Bachelor of Science (Nanoscience & Materials).

2 Qualification Requirements

2.1 Unacceptable combinations of courses

No candidate will be permitted to count towards an award any course, together with any other course, which, in the opinion of the Faculty, contains a substantial amount of the same material, and no course or portion of a course may be counted twice towards an award.

Note: A list of unacceptable combinations of courses is available from the Faculty of Sciences.

2.2 To qualify for the degree a candidate shall pass courses, listed below, to the value of 72 units pass, which satisfy the following

(a) A candidate shall present passes in courses to the value of 24 units at each of Level I, II and III.

2.3 Academic Program

2.3.1 Level 1

Passes in Level 1 courses to the value of 24 units which shall include:

semester 1

CHEM 1100 Chemistry IA	3
PHYSICS 1100 Physics IA *	3
or	
PHYSICS 1101 Physics for the Life & Earth Sciences IA	3

semester 2

CHEM 1200 Chemistry IB	3
PHYSICS 1200 Physics IB **	3
or	
PHYSICS 1201 Physics for the Life & Earth Sciences IB	3

together with additional Level I courses selected in accordance with Academic Program Rules in 5.6.1 and 5.6.2 for the degree of Bachelor of Science

* requires MATHS 1011 Mathematics IA as a corequisite

** requires MATHS 1012 Mathematics IB as a corequisite

2.3.2 Level II

Passes in Level II courses which shall include

(i) passes in core courses:

semester 1

CHEM 2100 Chemistry IIA	4

semester 2

CHEM 2200 Chemistry IIB	4

plus an additional course in Analytical Chemistry.

(ii) passes in Level II courses to the value of 12 units selected in accordance with Academic Program Rules in 5.6.3 for the degree of Bachelor of Science, in consultation with and subject to the approval of the program coordinator.

2.3.3 Level III

Passes in Level III courses which shall include

(i) passes in core courses:

CHEM 3006 Topics in Chemistry IIIB	6
CHEM 3109 Chemical Synthesis IIIA	6
CHEM 3110 Chemistry of Materials IIIA	6

(ii) passes in Level III courses to the value of 6 units selected in accordance with Academic Program Rules in 5.6.5 for the degree of Bachelor of Science, in consultation with and subject to the approval of the program coordinator.

2.4 The Honours Program

Refer to Academic Program rule 5.7 for the degree of Bachelor of Science.

3 Graduation

Subject to Chapter 89 of the Statutes, candidates who have satisfied the requirements for any award of the University shall be admitted to that award at a graduation ceremony for the purpose.

4 Special Circumstances

When in the opinion of the Faculty special circumstances exist, the Council, on the recommendation of the Faculty in each case, may vary any of the provisions of the Academic Program Rules for any particular award.

Bachelor of Science (Optics and Photonics)

Academic Program Rules

These rules should be read in conjunction with Academic Program rules parts 2, 3 and 4 of the Bachelor of Science

1 General

There shall be a degree of Bachelor of Science (Optics and Photonics)

2 Qualification Requirements

2.1 Unacceptable combinations of courses

No candidate will be permitted to count towards an award any course, together with any other course, which, in the opinion of the Faculty, contains a substantial amount of the same material, and no course or portion of a course may be counted twice towards an award.

Note: A list of unacceptable combinations of courses is available from the Faculty of Sciences.

2.2 To qualify for the degree of Bachelor of Science (Optics & Photonics) a candidate shall pass courses listed in 2.3 below to the value of at least 72 units which satisfy the following requirements:

(a) A candidate shall present passes in Level I courses to the value of not more than 24 units

(b) A candidate shall present passes in Level II courses to the value of not less than 20 units

(c) A candidate shall present passes in Level III courses to the value of not less than 24 units.

2.3 Academic program

2.3.1 Level I

Passes in Level I courses which shall include:

semester 1

MATHS 1011 Mathematics IA	3
PHYSICS 1100 Physics IA	3

semester 2

MATHS 1012 Mathematics IB	3
PHYSICS 1200 Physics IB	3

together with additional level I courses to the value of not more than 12 units selected in accordance with Academic Program Rules 5.3 and 5.6 for the degree of Bachelor of Science. A selection from the following courses is recommended:

semester 1

APP MTH 1000 Scientific Computing I	3
CHEM 1100 Chemistry IA	3
COMP SCI 1008 Computer Science IA	3
ELEC ENG 1006 Electrical Engineering I	3

semester 2

COMP SCI 1009 Computer Science IB	3
CHEM 1200 Chemistry IB	3

2.3.2 Level II

Passes in Level II courses to the value of not less than 20 units which shall include:

Group I

(i) Level II courses to the value of 14 units which include

APP MTH 2000 Differential Equations and Fourier SeriesII	2
and	
APP MTH 2002 Vector Analysis and Complex Analysis*	2
PHYSICS 2009 Photonics II	2
PHYSICS 2100 Physics IIA	4
and	
PHYSICS 2200 Physics IIB	4

* available in semester 1 and 2

Group II

(ii) at least 4 units from the following:

ELEC ENG 2007 Signals and Systems	3
ELEC ENG 2008 Electronics II	3
ELEC ENG 2010A/B Practical Electronic Design	3
PHYSICS 2001 Classical Mechanics II	2
PURE MTH 2002 Algebra II	2
STATS 2004 Laplace Transforms and Probability and Statistical Methods	2

(iii) additional courses offered by any Faculty of the University, in consultation with the Pogram Coordinator.

2.3.3 Level III

Passes (not conceded passes) in Level III courses to the value of not less than 24 units which shall include:

Group I

(i) Level III courses to the value of 15 units which include:

PHYSICS 3001 Electromagnetism & Optics III	3
PHYSICS 3002 Experimental Physics III	3
PHYSICS 3004 Quantum Mechanics III	3
PHYSICS 3007 Introduction to Physics Research	2
PHYSICS 3008 Physics of Solid State Devices	2
PHYSICS 3020 Photonics III	2

Group II

(ii) At least 6 units from the following:

ELEC ENG 3015 Communications, Signals and Systems	3
ELEC ENG 3016 Control III	3
PHYSICS 3000 Computational Physics III	2
PHYSICS 3009 Statistical Mechanics III	2
PHYSICS 3022 Applied Quantum Mechanics III	2

Full Year

(iii) ELEC ENG 3019A/B Practical Electrical and Electronic Design III 3

and

Passes in additional Level III courses selected from those offered for the degree of Bachelor of Science listed in Academic Program Rules 5.6.5 and 5.6.6.

2.4 The Honours Program

Refer to Academic Program rule 5.7 for the degree of Bachelor of Science

2.5 Graduation

Subject to Chapter 89 of the Statutes, candidates who have satisfied the requirements for any award of the University shall be admitted to that award at a graduation ceremony for the purpose.

3 Special Circumstances

When in the opinion of the Faculty special circumstances exist, the Council, on the recommendation of the Faculty in each case, may vary any of the provisions of the Academic Program Rules for any particular award.

Bachelor of Science (Space Science and Astrophysics)

Academic Program Rules

These rules should be read in conjunction with Academic Program rules parts 2, 3 and 4 of the Bachelor of Science

1 General

There shall be a degree of Bachelor of Science (Space Science and Astrophysics)

2 Qualification Requirements

2.1 Unacceptable combinations of courses

No candidate will be permitted to count towards an award any course, together with any other course, which, in the opinion of the Faculty, contains a substantial amount of the same material, and no course or portion of a course may be counted twice towards an award.

Note: A list of unacceptable combinations of courses is available from the Faculty of Sciences.

2.2 To qualify for the degree of Bachelor of Science (Space Science and Astrophysics) a candidate shall pass courses listed in 2.3 below to the value of 72 units which satisfy the following requirements:

(a) A candidate shall present passes in level 1 courses to the value of not more than 24 units

(b) A candidate shall present passes in level 2 courses to the value of not less than 20 units

(c) A candidate shall present passes in level 3 courses to the value of not less than 24 units.

2.3 Academic program

2.3.1 Level I

Passes in Level I courses to the value of 24 units which shall include:

MATHS 1011 Mathematics IA	3
MATHS 1012 Mathematics IB	3
PHYSICS 1007 Space Science and Astrophysics I	3
PHYSICS 1100 Physics IA	3
PHYSICS 1200 Physics IB	3

together with additional level I courses to the value of 9 units selected in accordance with the Academic Program Rules 5.3 and 5.6. for the degree of Bachelor of Science.

2.3.2 Level II

Passes in Level II courses to the value of not less than 20 units selected as follows:

(i) passes in the following core courses :

semester 1

APP MTH 2000 Differential Equations and Fourier Series	2
APP MTH 2002 Vector Analysis and Complex Analysis *	2
PHYSICS 2100 Physics IIA	4

* also available in semester 2

semester 2

PHYSICS 2200 Physics IIB	4
PHYSICS 2010 Space Science and Astrophysics II	4

(ii) additional level II courses selected from those offered for the degree of Bachelor of Science, listed in Academic Program Rules 5.6.3 and 5.6.4, chosen with the approval of the program coordinator. The following courses are highly recommended:

PHYSICS 2001 Classical Mechanics	2
PHYSICS 2002 Classical Fields and Mathematical Methods III	2

2.3.3 Level III

Passes (not conceded passes) in Level III courses to the value of not less than 24 units selected as follows:

(i)

PHYSICS 3001 Electromagnetism and Optics III	3
PHYSICS 3002 Experimental Physics III	3
PHYSICS 3004 Quantum Mechanics III	3
PHYSICS 3007 Introduction to Physics Research	3
PHYSICS 3009 Statistical Mechanics III	2
PHYSICS 3023 Space Science and Astrophysics III	2

(ii) passes in additional level III courses selected from those offered for the degree of Bachelor of Science, listed in Academic Program Rule 5.6.5 and 5.6.6 , chosen with the approval of the program coordinator.

2.4 The Honours Program

Refer to Academic Program rule 5.7 for the degree of Bachelor of Science.

2.5 Graduation

Subject to Chapter 89 of the Statutes, candidates who have satisfied the requirements for any award of the University shall be admitted to that award at a graduation ceremony for the purpose.

3 Special Circumstances

When in the opinion of the Faculty special circumstances exist, the Council, on the recommendation of the Faculty in each case, may vary any of the provisions of the Academic Program Rules for any particular award.

Bachelor of Science (Sustainable Environments)

Academic Program Rules

These rules should be read in conjunction with Academic Program rules parts 2, 3 and 4 of the Bachelor of Science

1 General

There shall be a degree of Bachelor of Science (Sustainable Environments).

2 Qualification Requirements

2.1 Unacceptable combinations of courses

No candidate will be permitted to count towards an award any course, together with any other course, which, in the opinion of the Faculty, contains a substantial amount of the same material, and no course or portion of a course may be counted twice towards an award.

Note: A list of unacceptable combinations of courses is available from the Faculty of Sciences.

2.2 To qualify for the degree a candidate shall pass courses, listed below, to the value of 72 units pass, which satisfy the following

(a) A candidate shall present passes in courses to the value of 24 units at each of Level I, II and III

(b) A candidate shall complete a major by completing prescribed courses to the value of 16 units at Level II and 12 units at Level III as set out in 2.3.2. and 2.3.3 below.

2.3 Academic Program

2.3.1 Level 1

Passes in Level 1 courses to the value of 18 units which shall include:

BIOLOGY 1101 Biology I: Molecules, Genes and Cells A 3

or

BIOLOGY 1102 Biology I: Molecules, Genes and Cells B 3

BIOLOGY 1202 Biology 1:Organisms 3

or

ENV BIOL 1002 Environmental Biology I 3

CHEM 1100 Chemistry IA 3

or

CHEM 1101 Foundations of Chemistry 1A 3

CHEM 1200 Chemistry IB 3

or

CHEM 1201 Foundations of Chemistry 1B 3

GEOLOGY 1100 Earth's Interior 1 3

GEOLOGY 1200 Earth's Environment 1 3

together with additional Level 1 courses, of which at least 3 units must be chosen from:

MATHS 1011 Mathematics IA 3

MATHS 1012 Mathematics IB 3

MATHS 1013 Mathematics IMA 3

MATHS 1014 Mathematics IMB 3

PHYSICS 1101 Physics for the Life & Earth Sciences IA 3

PHYSICS 1201 Physics for the Life & Earth Sciences IB 3

STATS 1000 Statistical Practice I* 3

STATS 1004 Statistical Practice 1 (Life Sciences) 3

with any additional course selected from the level I courses listed in Academic Program Rules 5.6.1 and 5.6.2 for the degree of Bachelor of Science.

*STATS 1000 Statistical Practice 1 may be taken in either semester 1 or 2

2.3.2 Level II

Passes in Level 2 courses as follows:

for a major in Conservation & Wildlife Ecology:

ENV BIOL 2000 Zoology EB II 4

or

ENV BIOL 2006 Botany II 4

plus one of

ENV BIOL 2001 Evolutionary Biology EBII 4

ENV BIOL 2003 Ecology EBII 4

with additional courses to the value of 8 units chosen from:

CHEM 2003 Environmental Chemistry II 4

ENV BIOL 2000 Zoology EB II 4

ENV BIOL 2001 Evolutionary Biology EBII 4

ENV BIOL 2003 Ecology EB II 4

ENV BIOL 2006 Botany II 4

SOIL&WAT 2011RW Spatial Information and Land Evaluation 4

plus elective courses to the value of 8 units taken from all courses listed in Program Rule 2.3.2 for this degree, in addition to courses listed under Specific Academic Program Rule 5.6.3 for the degree of Bachelor of Science, and any Level II Environmental Studies course.

for a major in Land & Water Management:

CHEM 2003 Environmental Chemistry II	4
SOIL&WAT 2012WT Soil & Water Resources	4

with additional courses to the value of 8 units chosen from:

CHEM 2100 Chemistry IIA	4
CHEM 2200 Chemistry IIB	4
CHEM 2207 Analytical Chemistry II	4
PHYSICS 2007 Environmental Physics	4
SOIL&WAT 2011RW Spatial Information and Land Evaluation	4

plus elective courses to the value of 8 units taken from all courses listed in Program Rule 2.3.2 for this degree, in addition to courses listed under Specific Academic Program Rule 5.6.3 for the degree of Bachelor of Science, and any Level II Environmental Studies course.

for a major in Deep Earth Resources:

GEOL 2006 Igneous & Metamorphic Geology II	4
GEOL 2007 Sedimentary & Structural Geology II	4

with additional courses to the value of 8 units chosen from:

CHEM 2003 Environmental Chemistry II	4
CHEM 2100 Chemistry IIA	4
CHEM 2200 Chemistry IIB	4
CHEM 2007 Analytical Chemistry II	4
GEOL 2008Surficial Geology II	4
PHYSICS 2007 Environmental Physics	4

plus elective courses to the value of 8 units taken from all courses listed in Program Rule 2.3.2 for this degree, in addition to courses listed under Specific Academic Program Rule 5.6.3 for the degree of Bachelor of Science, and any Level II Environmental Studies course.

Acceptable Level II Environmental Studies courses:

ENV 2005 Environmentalism: Principles & Practice	4
ENV 2008 Environmental Policy in Australia	4
ENV 2009 Introduction to Environmental Impact Assessment	4
ENV 2010 Tourism Development & Sustainability	4

2.3.3 Level III

Passes in Level 3 courses as follows:

for a major in Conservation & Wildlife Ecology:

ENV BIOL 3220 Issues in Sustainable Environments	3
ENV BIOL 3023 Conservation Biology	3

with additional courses to the value of 6 units chosen from:

ENV BIOL 3000 Terrestrial Ecology III	3
ENV BIOL 3006 Research Methods in Environmental Biology III	3
ENV BIOL 3008 Ecological Management & Restoration III	3
ENV BIOL 3015 Ecosystem Modeling for Environmental Management III	3
SOIL&WAT 3007WT GIS for Environmental Management	3

plus elective courses to the value of 12 units taken from all courses listed in Program Rule 2.3.3 for this degree, in addition to courses listed under Specific Academic Program Rule 5.6.5 for the degree of Bachelor of Science, and any Level III Environmental Studies course.

for a major in Land & Water Management:

ENV BIOL 3220 Issues in Sustainable Environments	3
SOIL&WAT 3002WT Soil Management & Conservation	3
SOIL&WAT 3012WT Soil Water Management	3

with additional courses to the value of 3 units chosen from:

GEOLOGY 3010 Remote Sensing (S)	3
SOIL&WAT 3004WT Environmental Toxicology & Remediation	3
SOIL&WAT 3007WT GIS For Environmental Management	3
SOIL&WAT 3011WT Integrated Catchment Management	3
SOIL&WAT 3016WT Soil Ecology & Nutrient Cycling	3

plus elective courses to the value of 12 units taken from all courses listed in Program Rule 2.3.3 for this degree, in addition to courses listed under Specific Academic Program Rule 5.6.5 for the degree of Bachelor of Science, and any Level III Environmental Studies course.

for a major in Deep Earth Resources:

ENV BIOL 3220 Issues in Sustainable Environments	3
GEOLOGY 3013 Tectonics III	3
GEOLOGY 3016 Igneous and Metamorphic Geology III	3
GEOLOGY 3019 Field Geoscience Program III	3

and one of:

GEOLOGY 3017 Petroleum Exploration III	3
GEOLOGY 3018 Mineral Exploration III	3

plus elective courses to the value of 9 units taken from all courses listed in Program Rule 2.3.3 for this degree, in addition to courses listed under Academic Program Rule 5.6.5 for the degree of Bachelor of Science, and any Level III Environmental Studies course.

Acceptable Level III Environmental Studies courses:

ENV 3005 Environmentalism: Principles & Practice	6
ENV 3008 Environmental Policy in Australia	6
ENV 3009 Introduction to Environmental Impact Assessment	6
ENV 3010 Tourism Development & Sustainability	6
ENV 3018 Environmental Studies Internship	6

2.4 The Honours Program

Refer to Academic Program rule 5.7 for the degree of Bachelor of Science.

3 Graduation

Subject to Chapter 89 of the Statutes, candidates who have satisfied the requirements for any award of the University shall be admitted to that award at a graduation ceremony for the purpose.

4 Special Circumstances

When in the opinion of the Faculty special circumstances exist, the Council, on the recommendation of the Faculty in each case, may vary any of the provisions of the Academic Program Rules for any particular award.

Bachelor of Science (Viticulture)

Academic Program Rules

These rules should be read in conjunction with Academic Program rules parts 2, 3 and 4 of the Bachelor of Science

1 General

There shall be a degree of Bachelor of Science (Viticulture)

2 Qualification Requirements

2.1 Unacceptable combinations of courses

No candidate will be permitted to count towards an award any course, together with any other course, which, in the opinion of the Faculty, contains a substantial amount of the same material, and no course or portion of a course may be counted twice towards an award.

Note: A list of unacceptable combinations of courses is available from the Faculty of Sciences.

2.2 It is not necessary for a candidate to take all the courses of any one level simultaneously or to complete all the course set out for one level before enrolling for any courses at the following level, provided that the prerequisite courses have been passed. However, a candidate who desire to take a Level III course before completing all compulsory Level I and II courses must obtain the permission of the Faculty.

2.3 To qualify for the degree a candidate shall pass courses, listed below, to the value of 72 units, which satisfy the following requirements:

(a) A candidate shall present passes in courses to the value of 24 units at each of level I, II and III.

2.4 Academic program

2.4.1 Level I

Passes in level I courses which shall include:

semester 1

BIOLOGY 1101 Biology 1: Molecules, Genes and Cells A	3
or	
BIOLOGY 1102 Biology 1:Molecules, Genes and Cells B	3
CHEM 1100 Chemistry IA	3
or	
CHEM 1101 Foundations of Chemistry A	3
CHEM ENG 1001 Introduction to Process Engineering	3
OENOLOGY 1018NW Foundations in Wine Science	3

semester 2

CHEM 1200 Chemistry 1B	3
or	
CHEM 1201 Foundations of Chemistry B	3
BIOLOGY 1202 Biology 1: Organisms	3
GEOLOGY 1200 Earth's Environment 1	3
STATS 1004 Statistical Practice 1 (Life Sciences)	3

2.4.2 Level II

Passes in level II courses which shall include:

semester 1

BIOCHEM 2106 Biochemistry II (Ag.) A	4
OENOLOGY 20025WT Microbiology for Viticulture and Oenology	4
VITICULT 2002 Viticultural Science	4

semester 2

ANIML SC 2029WT Genes and Inheritance	4
OENOLOGY 2022WT Sensory Studies	4
OENOLOGY 2024WT Introductory Winemaking	4

2.4.3 Level III

semester 1

Passes in level III which shall include:

AGRONOMY 3005WT Irrigation Science	3
APP ECOL 3008WT Integrated Pest Management A	3
SOIL&WAT 3012RW Soil and Water Resources	4
VITICULT 3020WT Table & Drying Grape Production	2

semester 2

AGRIBUS 3017WT Business Management for Agricultural Science	3
AGRONOMY 3015WT Viticultural Engineering and Operations	3
PLANT SC 3004WT Mineral Nutrition of Plants	3
VITICULT 3021WT Viticultural Production	3

2.5 The Honours Degree

A candidate shall complete the following courses to the value of 24 units:

(a) Honours Project to 12 or 24 units

Students who undertake the 12 unit Honours project shall also complete:

(b) 3 unit Honours Internship

(c) and electives to the value of 9 units chosen from:

APP ECOL 3005WT Plant Disease and Environment	3
APP ECOL 3022AEX/BEX Integrated Weed Management	3
BIOMET 3001WT Advanced Biometry	3
ENV BIOL 3009 Ecophysiology of Plants III	3
HORTICUL 3004WT Olive Production and Marketing	3
PLANT SC 3004WT Mineral Nutrition of Plants	3
SOIL&WAT 3012WT Soil Water Management	3
SOIL&WAT 3014WT GIS for Agricultural Science	3
SOIL&WAT 3016WT Soil Ecology and Nutrient Cycling	3
VITICULT 3020WT Table and Drying Grape Production	2
or	
PLANT SC 3002WT Biotechnology in the Food and Wine Industries	2
VITICULT 7001WT Advances in Viticultural science	3
WINEMKTG 3006WT Global Market for Wine III	4

2.6 Graduation

Subject to Chapter 89 of the Statutes, candidates who have satisfied the requirements for any award of the University shall be admitted to that award at a graduation ceremony for the purpose.

3 Special Circumstances

When in the opinion of the Faculty special circumstances exist, the Council, on the recommendation of the Faculty in each case, may vary any of the provisions of the Academic Program Rules for any particular award.

Bachelor of Arts and Bachelor of Science

Academic Program Rules

These rules should be read in conjunction with Academic Program Rules parts 2, 3 and 4 of the Bachelor of Science and Academic Program Rule 5.5.4 of the Bachelor of Arts.

1 General

There shall be a degree of Bachelor of Arts and Bachelor of Science.

Students may enrol directly in a program of study leading, after four years of full-time study (or par-time equivalent thereof), to the award of both the degree of Bachelor of Arts and the degree of Bachelor of Science.

2 Qualification Requirements

2.1 Unacceptable combinations of courses

No candidate will be permitted to count towards an award any course, together with any other course, which, in the opinion of the Faculty, contains a substantial amount of the same material, and no course or portion of a course may be counted twice towards an award.

Note: A list of unacceptable combinations of courses is available from the Faculty of Sciences.

2.2 Science Component

To qualify for the award of the degree of B.Sc. students must pass courses listed in Academic Program Rule 5.6 of the Rules for the degree of Bachelor of Science in the Faculty of Sciences to a minimum units value of 52, as follows:

(a) Level I courses to the value of not less than 12 units

(b) Level II courses to the value of not less than 16 units - being prerequisites for courses at Level III

(c) Level III courses to the value of not less than 24 units

(d) Courses comprising a major in a science discipline, as defined in the Academic Program Rule 5.4 for the degree of B.Sc. in the Faculty of Sciences

(e) A student must concurrently qualify for both awards.

Students who commence this program but who subsequently decide that they do not wish to proceed with both areas of study may transfer to enrolment in a program for the degree of Bachelor of Science in the Faculty of Sciences where credit of courses completed will be considered on a case by case basis.

Bachelor of Wine Marketing

Students who commenced their program of study in 2003 and earlier will normally complete their course of study under the provision of the specific program rules current at the time of commencement. Student should consult the *University of Adelaide Calendar - Handbook of Undergraduate Programs 2003*.

On application to the Faculty, continuing students may be permitted to complete their studies under the current academic program rules, with such modifications and stipulations as the Faculty may deem necessary.

Academic Program Rules

1 General

There shall be a degree and an Honours degree of Bachelor of Wine Marketing. A candidate may obtain either degree or both.

2 Duration of program

The program for the degree shall extend over three years of full-time study or the part-time equivalent.

3 Admission

3.1 Status, exemption and credit transfer

3.1.1 Candidates who have previously passed courses in programs in the University or other tertiary educational institutions may, on written application to the Faculty, be granted such status in appropriate courses in the program for the degree of Bachelor of Wine Marketing as the Faculty in each case may determine.

3.1.2 Limits on the granting of status

Normally status will only be considered for courses passed within the previous ten years. Status may be granted on a course for course basis or on the basis of course for group of courses. Status will be granted only for courses which meet the academic requirements of the award towards which credit is sought.

Students must complete a minimum of 24 units towards the award, as defined in 5.2, at the University of Adelaide.

3.2 Articulation with other awards

3.2.1 A candidate for the Bachelor of Wine Marketing who does not complete the requirements for the Degree but satisfies the requirements for the Diploma in Wine Marketing may be admitted to the Diploma, subject to the student discontinuing candidature for the Degree.

3.2.2 A candidate who has been admitted to the Diploma in Wine Marketing and who subsequently satisfies the requirements for the Bachelor of Wine Marketing must surrender the Diploma before being admitted to the Degree.

4 Assessment and examinations

4.1 (a) A candidate shall not be eligible to attend for examination unless written and laboratory or other practical work, where required, has been completed to the satisfaction of the teaching staff concerned

(b) In determining a candidate's final result in a course the assessors may take into account oral, written, practical or examination work, provided that the candidate has been given notice at the beginning of the course of the way in which the work will be taken into account and of its relative importance in the final result.

4.2 There shall be four classifications of pass in any course for the degree as follows: Pass with High Distinction, Pass with Distinction, Pass with Credit, Pass. In addition there shall be a classification of Conceded Pass for courses of up to 4 units in value, to a maximum of 7 units, provided such courses shall not satisfy prerequisite requirements

4.3 (a) A candidate who fails to pass in a course or who obtains a conceded pass and who desires to take the course again shall do written and laboratory or other work in that course to the satisfaction of the teaching staff concerned

(b) A candidate who has twice failed to obtain a Pass or higher in the examination in any course shall not enrol for the course again, or for any other course which in the opinion of the Faculty contains a substantial amount of the same material. except by permission of the Faculty and under such conditions as the Faculty may prescribe. For the purpose of this clause a candidate who fails to receive permission to sit for or does not attend the examination in any course after having attended substantially the full program of instruction in it, shall be deemed to have failed to pass the examination. A candidate who obtains a Pass only after being granted permission to enrol for the third time shall not take a course for which that Pass is a prerequisite, save in exceptional circumstances and with the permission of the Faculty.

5 Qualification requirements

5.1 Unacceptable combinations of courses

No candidate will be permitted to count towards an award any course, together with any other course, which, in the opinion of the Faculty, contains a substantial amount of the same material, and no course or portion of a course may be counted twice towards an award.

5.2 Academic Program

To qualify for the degree of Bachelor in Wine Marketing a candidate shall present passes in courses to a minimum value of 72 units which satisfy the following requirements

5.2.1 Level I

semester 1

ECON 1004 Principles of Microeconomics I	3
or	
WINEMKTG 1026EX Microeconomic Principles	3
ECON 1008 Business Data Analysis I	3
or	
WINEMKTG 1015EX Data Analysis for Food and Wine Business	3
OENOLOGY 1000NW/1000EX Introductory Grape and Wine Knowledge	3
WINEMKTG 1013WT/1013EX Wine and Food Marketing Principles	3

semester 2

ACCTING 1002 Accounting for Decision Makers	3
or	
WINEMKTG 1008EX Introduction to Managerial and Financial Accounting	3
COMMLAW 1004 Commercial Law I(S)	3
or	
WINEMKTG 1003EX Legal Issues in Wine Marketing	3
ECON 1000 Principles of Macroeconomics I	3
or	
WINEMKTG 1063WT Macroeconomic Essentials for Wine and Food Business	3
OENOLOGY 1001NW/1001EX Vineyard and Winery Operations I	3

5.2.2 Level II

Core courses

semester 1

OENOLOGY 20004NW Vineyard and Winery Operations II	4
WINEMKTG 2037WT Applied Management Science	4
or	
AGRIBUS 2016EX Introduction to Business Management	4

semester 2

OENOLOGY 2018WT/2018EX Fortified Wines, Spirits and Non-grape Beverages	4
WINEMKTG 2011WT/2011EX Applied Marketing Research	4
WINEMKTG 2014WT/2014EX International Marketing of Wine and Agricultural Products	4

plus electives chosen in consultation with the Program Coordinator.

5.2.3 Level III

Core courses

semester 1

WINEMKTG 3006WT/3000EX Global Market for Wine	4

semester 2

WINEMKTG 3028WT/3028EX Winery Business Management III	4

Electives

Candidates must complete electives to a minimum value of 20 units at least 12 units of which must be at level III and at least 12 units of which must be WINEMKTG courses.

Electives chosen may be from other programs in the Faculty of Sciences or any courses in the Bachelor of Commerce or Bachelor of Economics for which the student is eligible to enrol.

Courses from within the Faculty of Sciences of particular relevance to the program are:

AGRIBUS 2004WT Issues in Australian Agribusiness	4
AGRIBUS 3041WT International Agribusiness Environment III	4
WINEMKTG 2002WT/2002EX Wine and Society	4
WINEMKTG 2003WT/2003EX International Wine Law	4
WINEMKTG 2010WT/2010EX Strategic Marketing Management	4
WINEMKTG 3014WT/3014EX Food Marketing III	4
WINEMKTG 3040WT/3040EX Wine Retail and Distribution Management	4

WINEMKTG 3047WT/3047EX Internet Marketing and E-Commerce 4

WINEMKTG 3049EX Wine & Food Tourism & Festivals 4

WINEMKTG 3065WT Database Marketing for Food and Wine Business 4

It is recommended that students wishing to specialise in marketing include the following courses amongst their electives:

MARKETNG 2011 Consumer Behaviour II 4

or

WINEMKTG 2033EX Consumer Behavioural Analysis 4

WINEMKTG 3034WT/3034EX Advertising and Promotion III 4

It is recommended that students wishing to specialise in finance, economics and trade include the following courses amongst their electives:

ECON 2000 International Trade & Investment Policy II 4

ECON 2009 Consumers, Firms and Markets II 4

ECON 3021 International Trade III 4

Note: students without SACE Stage 2 Mathematical Studies must take ECON 1005 Mathematics for Economists I before ECON 2009 Consumers, Firms and Markets II.

5.3 The Honours Program

5.3.1 To be eligible to be admitted to the Honours degree program, a candidate shall complete the requirements for the Bachelor degree or equivalent to a standard which is acceptable to the Faculty for the purpose of admission to the Honours degree.

5.3.2 Subject to the approval of the Head of the School of Agriculture and Wine, the candidate will proceed to the Honours degree in the following course:

WINEMKTG 4007AWT/BWT Honours Wine Marketing 24

or

WINEMKTG 4008AWT/BWT Honours Wine Marketing 24

5.3.3 A candidate may, subject to the approval of the Heads of the Schools concerned, proceed to the Honours degree taught jointly by the School of Agriculture and Wine and another school. The candidate must apply in writing for the proposed program to be approved in advance by the Faculty.

5.3.4 A candidate for the Honours degree shall attend lectures and pass examinations in accordance with the provisions of these Academic Program Rules.

5.3.5 The work of the Honours year will normally be completed in one year of full-time study. The Faculty may permit a candidate to take two years, but no more, under such conditions as it may determine.

5.3.6 A candidate who is unable to complete .the program for the Honours degree within the time allowed, or whose work is unsatisfactory at any stage of the program, of who withdraws from the program shall be reported to the Faculty, which may permit re-enrolment for an Honours degree under such conditions (if any) as it may determine

5.3.7 There shall be three classifications for the Honours degree, as follows:

1 First Class

2A Second Class div A

2B Second Class div B

3 Third Class

NAH Not awarded.

5.3.8 Candidates may not enrol for a second time for the Honours program if they:

(i) have already qualified for Honours *or*

(ii) have attended for examination but failed to obtain Honours *or*

(iii) have withdrawn from the Honours program unless the Faculty on such conditions as it may determine permits re-enrolment.

5.4 Graduation

Subject to Chapter 89 of the Statutes, candidates who have satisfied the requirements for any award of the University shall be admitted to that award at a graduation ceremony for the purpose.

6 Special Circumstances

When in the opinion of the Faculty special circumstances exist. the Council, on the recommendation of the Faculty in each case, may vary any of the provisions of the Academic Program Rules for any particular award.

Bachelor of Science degrees – Graduate Attributes

Knowledge

- A broad scientific knowledge with a deep understanding of one or more science disciplines, commensurate with the highest international standards in science education.
- To understand the observational and experimental character of science and to have skills in field and laboratory techniques and experimental design.

Intellectual and social capabilities

- The skills of inquiry, objective criticism, logical thought and problem solving that are considered to be the foundations of the scientific method.
- The ability to communicate scientific information effectively, both orally and in writing.
- To have a high order of numerical and analytical skills.
- To possess scientific curiosity and the attitudes, knowledge and skills necessary for a commitment to life long learning.
- To have experience with learning opportunities made available by new technologies and to be equipped with computing and information technology skills.
- To have the skills required to tackle scientific problems as a member of a team.

Attitudes and values

- To appreciate the central role of science in society.
- An enthusiasm for, and enjoyment of, the ethos of science and the process of scientific investigation.
- To value the close relationship between scientific research and the development of new knowledge.

Further Programs in the Faculty of Sciences – Graduate Attributes

These graduate attributes apply to following Academic Programs:

- All Diplomas
- Bachelor of Agricultural Science (including all specialisations)
- Bachelor of Agriculture
- Bachelor of Environmental Science
- Bachelor of Food Technology and Management
- Bachelor of Natural Resource Management
- Bachelor of Rural Enterprise Management
- Bachelor of Science (Agricultural Science)
- Bachelor of Science (Animal Science)
- Bachelor of Science (Sustainable Environments)
- Bachelor of Science (Viticulture)
- Bachelor of Wine Marketing.

- Knowledge and understanding of the content of their chosen discipline at levels that are internationally recognised and at the higher level of industry requirement.
- The ability to analyse, evaluate and synthesise information from a wide variety of sources and experiences, and apply creative and innovative solutions to problems within changing contexts.
- Numeracy and literacy skills of a high order.
- Acquisition of the capacity to learn and maintain intellectual curiosity and a commitment to continuous learning throughout their lives.
- An awareness of ethical, social and cultural contexts and their importance in the exercise of professional skills and responsibilities.
- The capacity to communicate effectively and to work both independently and cooperatively.
- The ability to take up a leadership role in the community and a commitment to the highest standards of professional endeavour.
- Proficiency in the appropriate use of modern technologies within a socially responsible context.

Syllabuses

Courses are listed in alphabetical order under the following disciplines:

Aboriginal Studies in Music 321
Accounting 325
Agricultural Business 327
Agriculture 329
Agronomy 330
Anatomical Science 333
Ancient Greek 336
Animal Science 339
Anthropology 342
Applied Ecology 348
Architecture 352
Asian Studies 355
Biochemistry 359
Biology 362
Biometry 363
Biotechnology 364
Chemistry 364
Chinese 369
Classical Studies 372
Commerce 376
Commercial Law 376
Computer Science 377
Corporate Finance 383
Dentistry 384
Design Studies 390
Economics 399
Education 406
Engineering:
- Chemical 409
- Civil 418
- Electrical & Electronic 428
- Mechanical 436
- Petroleum 447

English 452
Environmental Biology 458
Environmental Studies 464
European Studies 467
Food Technology & Management 470
French Studies 472
Gender Studies 476
General Practice 478
Genetics 479
Geography 482
Geology 486
German Studies 492
History 496
Horticulture 501
Indonesian 503
Information Systems 505
International Studies 505
Italian 506
Japanese 507
Labour Studies 509
Landscape Architecture 510
Latin 513

Law 515
Linguistics 534
Management 536
Marketing 537
Mathematics 538
Media 552
Medicine 555
Microbiology 562
Modern Greek 566
Music 567
Music -VET 593
Obstetrics & Gynaecology 599
Oenology 600
Oral Health 603
Pathology 606
Pharmacology 607
Philosophy 609
Physics 614
Physiology 622
Plant Science 625
Politics 627
Psychiatry 634
Psychology 634
Public Health 638
Social Science 642
Soil & Water 644
Spanish 647
Statistics 649
Viticulture 654
Wine Marketing 656
Index of Courses 663

Aboriginal Studies in Music

Level I

MUSIC 1001A/B
Style Studies I CM

- 2 units - full year
- 1.5 hour lecture per week
- Eligibility: Aboriginal and Torres Strait Islander students only
- Assessment: continuous 60%, semester major assignments 40%

Historical, theoretical and practical approach to the following musical styles: African--American music (blues, soul, reggae etc), folk, country, rock.

MUSIC 1002A/B
Practical Music Study I CM

- 4 units - full year
- 1 hour individual lesson per week
- Eligibility: Aboriginal and Torres Strait Islander students only
- Assessment: continuous progress 60%, semester exams 40%

One to one individual tuition on the student's selected instrument (or voice). Includes technical development, musical literacy, musicianship, repertoire and the use, care and maintenance of the instrument (voice).

MUSIC 1007A/B
Studies in Community and Culture I

- 3 units - full year
- 1 lecture, 1 tutorial per week.
- Eligibility: Aboriginal and Torres Strait Islander students only
- Assessment: attendance, participation 10%, assignments 50%, end of semester exams 30%, field studies workbook 10%

An exploration of the arts in society drawing on examples from a variety of indigenous and non-indigenous communities and cultures in Australia and elsewhere. Themes include: the social, political, religious and educational roles of art, artists and arts institutions; cultural identity, cultural maintenance and development; aesthetics, technology and the arts, commercialism, culture contact and culture change.

The course includes classes presented by Visiting Lecturers from the Pitjantjatjara communities.

MUSIC 1009A/B
Practical Music Study I MS

- 4 units - full year
- 1 hour individual lesson per week
- Eligibility: Aboriginal and Torres Strait Islander students only
- Assessment: continuous progress 60%, semester exams 40%

One to one individual tuition on the student's selected instrument (or voice). Includes technical development, musical literacy, musicianship, repertoire and the use, care and maintenance of the instrument (or voice).

MUSIC 1010A/B
Theory of Music I MS

- 3 units - full year
- 2 x 1 hour lectures or equivalent per week
- Eligibility: Aboriginal and Torres Strait Islander students only
- Assessment: continuous assessment 60%, semester exams 40%

Consolidation and extension of concepts and structures underlying Western music and Western music theory, including the application of the Western music notation system. Introduction to analysis and composition in a range of stylistic contexts.

MUSIC 1011A/B
Research Studies (CASM) I MS

- 3 units - full year
- 1.5 hour lecture per week
- Eligibility: Aboriginal and Torres Strait Islander students only
- Assessment: attendance, participation 5%, assignments 20%, exam 15%, research journal 15%, written research proposal 30%, field studies 15%

This course introduces students to the scientific study of music as a socio-cultural phenomenon and provides an opportunity for students to gain experience in designing and conducting their own research projects. The course explores major directions, themes and paradigms in the research of music and society, whilst also focussing on the development of student research skills and the completion of research proposals reflecting students' musical, cultural and academic interests.

In addition the Field Studies trip to the Anangu Pitjantjatjara lands provides an opportunity for students to critically explore and reflect on the possible applications for their research skills. The course includes classes presented by visiting Lecturers from the Anangu Pitjantjatjara communities and may also include visits to prominent Kaurna events and places.

MUSIC 1013A/B

Performance I MS

- 4 units - full year
- 2 x 2 hour rehearsals per week
- Eligibility: Aboriginal and Torres Strait Islander students only
- Assessment: attendance, participation 20%, rehearsals 30%, in-house performance workshops/public performances/school or community workshops determined and approved by department 20%, recording project 10%, field studies trip 10%, performance workbook 10%

The development of ensemble and performance skills through group rehearsals, in-house performance workshops, performance activities which may include public performances/school or community workshops/tours as determined and approved by the Department, a recording project and a field studies trip to the Anangu Pitjantjatjara Lands. Includes the application of learning skills/behaviours; the development of repertoire, arranging skills and rehearsal techniques; and the application of musical literacy as appropriate.

MUSIC 1014A/B

Performance I CM

- 4 units - full year
- 2 x 2 hour rehearsals per week
- Eligibility: Aboriginal and Torres Strait Islander students only
- Assessment: attendance, participation 20%, rehearsals 30%, in-house performance workshops/public performances/school or community workshops determined and approved by department 20%, recording project 10%, field studies trip 10%, performance workbook 10%

The development of ensemble and performance skills through group rehearsals, in-house performance workshops, performance activities which may include public performances/school or community workshops/tours as determined and approved by the Department, a recording project and a field studies trip to the Anangu Pitjantjatjara Lands. Includes the application of learning skills/behaviours; the development of repertoire, arranging skills and rehearsal techniques; and the application of musical literacy as appropriate.

MUSIC 1015A/B

General Studies (New) I

- 2 units - full year
- contact hours vary according to the topic/s chosen
- Eligibility: Aboriginal and Torres Strait Islander students only
- Assessment: determined by the lecturer in charge, in consultation with the academic coordinator

A range of elective topics such as Vocal group; Torres Strait Islander dancing; computing for musicians - an introduction to the use of synthesisers, MIDI, sequencers; computer notation and educational software; studio techniques - an introduction to the function and use of equipment used in the live performance and recording of music; songwriting - an introduction to the various techniques used in developing ideas and turning them into songs. All topics will not necessarily be offered in any one year and others may be offered from time to time. At the discretion of the Academic Coordinator a student may be credited with external units; in such cases the Academic Coordinator will also determine the appropriate weighting. Students will be encouraged to undertake projects which relate to their areas of special interest, where possible.

MUSIC 1016A/B

Research Studies (CASM) I CM

- 3 units - full year
- 1.5 hour lecture per week
- Eligibility: Aboriginal and Torres Strait Islander students only

Students to undertake supervised research projects of personal cultural significance in relation to music. The specific learning expectations and assessment requirements will be determined through consultation between the individual student, the course lecturer and the academic coordinator, and formalised through individual learning contracts. The course also requires participation in the field studies trip to the Anangu Pitjantjatjara Lands.

MUSIC 1018A/B

Practical Extension I

- 2 units - full year
- 1 hour lecture per week or equivalent
- Eligibility: Aboriginal and Torres Strait Islander students only
- Assessment: attendance, participation 20%, assignments 80%

An introduction to practical aspects related to music-making. Topics are acoustics and audio engineering techniques; computers and music; introduction to principles of teaching; principles of music marketing and promotion.

MUSIC 1020A/B

Theory of Music I CM

- 3 units - full year
- 3 x 1 hour lectures or equivalent per week
- Eligibility: Aboriginal and Torres Strait Islander students only
- Assessment: continuous 60%, semester exams 40%

Consolidation and extension of concepts and structures underlying Western music and Western music theory, particularly through practical application on the student's selected instrument and/or keyboard. Includes application of the Western music notation system.

MUSIC 1021A/B
Style Studies I MS

- 2 units - full year
- 1.5 hour lecture per week
- Eligibility: Aboriginal and Torres Strait Islander students only
- Assessment: continuous 60%, end of semester major assignments 40%

Historical, theoretical and practical approach to the following musical styles: African-American music (blues, soul, reggae etc), folk, country, rock.

MUSIC 1024A/B
Aural Development (New) I

- 1 unit - full year
- 1 hour lecture per week
- Eligibility: Aboriginal and Torres Strait Islander students only
- Assessment: attendance, participation 20%, continuous 40%, exams 40%

The development of musical literacy through practical application, and the development of aural awareness and analytical listening skills. Includes the recognition and reproduction of rhythmic, melodic and harmonic structures.

Level II

MUSIC 2000A/B
Theory of Music II CM

- 4 units - full year
- 3 x 1 hour lectures or equivalent per week
- Eligibility: Aboriginal and Torres Strait Islander students only
- Prerequisite: MUSIC 1020 A/B Theory of Music ICM or MUSIC 1010 A/B Theory of Music IMS
- Assessment: continuous 60%, semester exams 40%

Consolidation and application of theoretical knowledge learned in Level I of the Associate Diploma in Aboriginal Studies in Music (New), and extension of this knowledge primarily through arranging and composing in the context of the student's stylistic interests.

MUSIC 2001A/B
Style Studies II CM

- 2 units - full year
- 1.5 hour lecture per week
- Eligibility: Aboriginal and Torres Strait Islander students only
- Prerequisite: MUSIC 1001 A/B Style Studies ICM or MUSIC 1021 A/B Style Studies IMS, and MUSIC 1020 A/B Theory of Music ICM or MUSIC 1010 A/B Theory of Music IMS
- Assessment: topic I - continuous 30%, major assignments 20%; topic II - lecture workbook 10%, assignments 40%

Topic I - historical, theoretical and practical approach to Jazz; Topic II - a survey of the main stylistic characteristics of Western art music in historical and cultural context, including particular reference to contemporary and new Australian music.

MUSIC 2002A/B
Style Studies II MS

- 2 units - full year
- 1.5 hour lecture per week
- Eligibility: Aboriginal and Torres Strait Islander students only
- Prerequisite: MUSIC 1021 A/B Style Studies IMS or, in exceptional circumstances, a Distinction (or higher) in MUSIC 1001 A/B Style Studies ICM and MUSIC 1010 A/B Theory of Music IMS or, in exceptional circumstances, a Distinction (or higher) in MUSIC 1020 A/B Theory of Music ICM
- Assessment: topic I - continuous 30%, major assignments 20%; topic II - lecture workbook 10%, assignments 40%

Topic I - historical, theoretical and practical approach to Jazz; Topic II - a survey of the main stylistic characteristics of Western art music in historical and cultural context, including particular reference to contemporary and new Australian music.

MUSIC 2003A/B
Theory of Music II MS

- 4 units - full year
- 3 x 1 hour lectures or equivalent per week
- Eligibility: Aboriginal and Torres Strait Islander students only
- Prerequisite: MUSIC 1010 A/B Theory of Music IMS or, in exceptional circumstances, a Distinction (or higher) in MUSIC 1020 A/B Theory of Music ICM
- Assessment: continuous 60%, semester exams 40%

Consolidation and application of theoretical knowledge learned in Level I of the Associate Diploma in Aboriginal Studies in Music (New), and extension of this knowledge primarily through analysis and composition in the context of style.

MUSIC 2004A/B
Performance II MS

- 4 units - full year
- 2 x 2 hour rehearsals per week
- Eligibility: Aboriginal and Torres Strait Islander students only
- Prerequisite: MUSIC 1013 A/B Performance IMS or, in exceptional circumstances, a Distinction (or higher) in MUSIC 1014 A/B Performance ICM

- Assessment: attendance, participation 20%, rehearsals 30%, in-house performance workshop /public performances/school or community workshops, determined and approved by department 20%, recording project 10%, field studies trip10%, performance workbook 10%

The development of ensemble and performance skills through group rehearsals, in-house performance workshops, performance activities which may include public performances/school or community workshop/tours as determined and approved by the Department, a recording project and a field studies trip to the Anangu Pitjantjatjara Lands. Includes the application of learning skills/behaviours; the development of repertoire, arranging skills and rehearsal techniques; and the application of musical literacy as appropriate.

MUSIC 2005A/B
Practical Extension II

- 2 units - full year
- 1 hour lecture or equivalent per week
- Eligibility: Aboriginal and Torres Strait Islander students only
- Prerequisite: MUSIC 1018 A/B Practical Extension I
- Assessment: attendance, participation 20%, assignments 80%

Further development of practical aspects related to music-making. Topics are music business and management skills; introduction to recording techniques; music networks and organisations; music industry skills - publishing, copyright, funding.

MUSIC 2006A/B
Practical Music Study II CM

- 4 units - full year
- 1 hour individual lesson per week
- Eligibility: Aboriginal and Torres Strait Islander students only
- Prerequisite: MUSIC 1002 A/B Practical Music Study ICM or MUSIC 1009 A/B Practical Music Study IMS
- Assessment: continuous progress 60%, semester exams 40%

One to one individual tuition on the student's selected instrument (or voice). Includes technical development, musical literacy, musicianship, repertoire and the use, care and maintenance of the instrument (or voice).

MUSIC 2009A/B
Performance II CM

- 4 units - full year
- 2 x 2 hour rehearsals per week
- Eligibility: Aboriginal and Torres Strait Islander students only
- Prerequisite: MUSIC 1014 A/B Performance ICM or MUSIC 1013 A/B Performance I MS
- Assessment: attendance, participation 20%, rehearsals 30%, in-house performance workshops/public performances/school or community workshops, determined and approved by department 20%, recording project 10%, field studies trip10%, performance workbook 10%

The development of ensemble and performance skills through group rehearsals, in-house performance workshops, performance activities which may include public performances/school or community workshops/tours as determined and approved by the Department, a recording project and a field studies trip to the Anangu Pitjantjatjara Lands. Includes the application of learning skills/behaviours; the development of repertoire, arranging skills and rehearsal techniques; and the application of musical literacy as appropriate.

MUSIC 2011A/B
Aural Development (New) II

- 1 unit - full year
- 1 hour lecture per week
- Eligibility: Aboriginal and Torres Strait Islander students only
- Prerequisite: MUSIC 1024 A/B Aural Development (New) I

Assessment: attendance, participation 20%, continuous 40%, exams 40%

The continued development of musical literacy, aural awareness and analytical listening skills through practical application. Includes the recognition and reproduction of rhythmic, melodic and harmonic structures.

MUSIC 2016A/B
Studies in Community and Culture II

- 3 units - full year
- 1.5 hour lecture per week
- Eligibility: Aboriginal and Torres Strait Islander students only
- Prerequisite: MUSIC 1007 A/B Studies in Community and Culture I
- Assessment: continuous 25%, assignments 15%, verbal report 20%, written report 30%, field studies workbook 10%

During this course students will undertake a project to be negotiated with the course lecturer and Academic Coordinator. Projects will revolve around the issues of the arts and society and should involve degrees of direct engagement with the community. Continuous project development by the student with assistance from the course lecturer as required, as well as written and verbal reportage will form important parts of the course. This course also requires participation in the field studies trip to the Anangu Pitjantjatjara Lands.

MUSIC 2017A/B

General Studies (New) II

- 3 units - full year
- contact hours vary according to the topic/s chosen
- Eligibility: Aboriginal and Torres Strait Islander students only
- Prerequisite: MUSIC 1015 A/B General Studies (New) I
- Assessment: determined by the lecturer in charge, in consultation with the academic coordinator

A range of elective topics such as Vocal group; Torres Strait Islander dancing; computing for musicians - an introduction to the use of synthesisers, MIDI, sequencers; computer notation and educational software; studio techniques - an introduction to the function and use of equipment used in the live performance and recording of music; songwriting - an introduction to the various techniques used in developing ideas and turning them into songs. All topics will not necessarily be offered in any one year and others may be offered from time to time. At the discretion of the Academic Coordinator a student may be credited with external units; in such cases the Academic Coordinator will also determine the appropriate weighting. Students will be encouraged to undertake projects which relate to their areas of special interest, where possible.

MUSIC 2019A/B

Research Studies (CASM) II MS

- 4 units - full year
- 1.5 hour lecture per week
- Eligibility: Aboriginal and Torres Strait Islander students only
- Prerequisite: MUSIC 1011 A/B Research Studies (CASM) IMS or, in exceptional circumstances, a Distinction (or higher) in MUSIC 1016 A/B Research Studies (CASM) ICM
- Assessment: attendance, participation 5% verbal research-in-progress presentation 15%, final written research report 30%, assignments 20%, feld studies workbook 15%, research journal 15%

Students will conduct supervised research projects based upon research proposal completed in MUSIC 1011 A/B Research Studies(CASM) IMS. The course also explores present and future issues, directions and applications for research in music and society. The Field Studies trip to the Anangu Pitjantjatjara lands also provides an opportunity for students to further their critical exploration and reflection on the uses of research.

The course also includes classes presented by Visiting Lecturers from the Pitjantjatjara communities and may include some visits to prominent Kaurna events and places.

MUSIC 2020A/B

Practical Music Study II MS

- 4 units - full year
- 1 hour individual lesson per week
- Eligibility: Aboriginal and Torres Strait Islander students only
- Prerequisite: MUSIC 1009 A/B Practical Music Study IMS or, in exceptional circumstances, a Distinction (or higher) in MUSIC 1002 A/B Practical Music Study ICM
- Assessment: continuous progress 60%, semester exams 40%

One to one individual tuition on the student's selected instrument (or voice). Includes technical development, musical literacy, musicianship, repertoire and the use, care and maintenance of the instrument (or voice).

MUSIC 2023A/B

Research Studies (CASM) II CM

- 4 units - full year
- 1.5 lecture per week
- Eligibility: Aboriginal and Torres Strait Islander students only
- Prerequisite: MUSIC 1016 A/B Research Studies (CASM) ICM or MUSIC 1011 A/B Research Studies (CASM) IMS

Students to undertake supervised research projects of personal cultural significance in relation to music. The specific learning expectations and assessment requirements will be determined through consultation between the individual student, the course lecturer and the Academic Coordinator, and formalised through Individual Learning Contracts. In addition the Field Studies trip to the Anangu Pitjantjatjara Lands provides an opportunity for students to critically explore and reflect on the possible applications for their research.

Accounting

Level I

ACCTING 1002

Accounting for Decision Makers I

- 3 units - semester 1 & 2
- 2 lectures, 1 tutorial per week
- Available for Non-Award study
- Eligibility: available to B.Com. students only in semester 1
- Quota applies for semester 1
- Restriction: not to be counted with 3086 Financial Accounting IB
- Assessment: written exam 50% - 80%, assignments as determined at first lecture

This course considers the use of accounting information by external users and management. Topics include: accounting information in its decision making context; external financial reports; financing and business structures; financial statement analysis; the time value of money; capital budgeting; cost-volume-profit analysis; management accounting tools of analysis; and budgeting.

ACCTING 1005
Accounting Method I

- 3 units - semester 2
- 2 lectures, 1 tutorial, 1 workshop per week
- Eligibility: B.Com. students only
- Quota will apply
- Restriction: not to be counted with 4359 Financial Accounting IA
- Assessment: exam, assignments as determined at first lecture

Introduction to financial accounting including the principles of double-entry bookkeeping and preparation of financial statements. Topics include worksheets, perpetual and periodic inventory systems, LIFO and FIFO, specialised journals and ledgers, subsidiary ledgers, bills receivable and payable, bad debts, and non-current assets.

Level II

ACCTING 2001
Management Accounting II

- 4 units - semester 2
- 2 lectures, 1 tutorial per week
- Available for Non-Award study
- Prerequisite: ACCTING 1002 Accounting for Decision Makers I
- Assessment: exam worth between 50-80%, assignment and tutorial work as determined at first lecture

This course provides an introduction to contemporary management accounting concepts and techniques. The topic addresses the role accountants play as providers of information for internal decision making purposes. Particular areas of emphasis could include: the tools used in the design and development of costing systems; preparation of budgets and their role as a planning and control tool; and other specific decision making tools, identifying relevant information, pricing decisions, inventory, and quality issues.

ACCTING 2010
Financial Accounting II

- 4 units - semester 1
- 2 lectures, 1 tutorial per week
- Available for Non-Award study
- Prerequisite: ACCTING 1005 Accounting Method I (at least 45%)
- Assessment: exam, assignments as determined at first lecture

This course examines measurement and disclosure issues in financial reporting, with emphasis on the detailed application of accounting standards. Topics include reforms to the regulatory framework for financial reporting, disclosure issues in financial statements, accounting for leases, non-current asset valuation and impairment, income tax, intangibles, superannuation, earnings per share, foreign currency translation, public sector financial reporting and ethics in accounting.

Level III

ACCTING 3006
Accounting Theory III

- 4 units - semester 2
- 2 lectures, 1 tutorial per week
- Available for Non-Award study
- Assumed Knowledge: principles of financial accounting as taught in ACCTING 2001 Financial Accounting II - students without this background are advised not to enrol in this course
- Assessment: 3 hour exam, assignments as determined at first lecture

Topics may include accounting history, theory development in accounting, normative accounting theories, positive accounting theory, standard setting in a theoretical and political framework, behavioural accounting, and social and environmental accounting issues.

ACCTING 3011
Corporate Accounting III

- 4 units - semester 1
- 2 lectures, 2 hour tutorial/workshop per week
- Available for Non-Award study
- Prerequisite: ACCTING 1005 Accounting Method I
- Assumed Knowledge: ACCTING 2010 Financial Accounting II, CORPFIN 2006 Business Finance II and ECOMMRCE 1000 Information Systems I
- Assessment: 3 hour exam, work completed during the course, as determined at first lecture

Topics may include inter-corporate investments and consolidated accounts, company reconstructions, accounts of liquidators and receivers; amalgamations and takeovers; joint ventures; issue of shares and debt.

ACCTING 3012

Auditing III

- 4 units - semester 2
- 2 lectures, 1 tutorial per week
- Available for Non-Award study
- Assumed Knowledge: ACCTING 1005 Accounting Method I
- Assessment: exam, assignments as determined at first lecture

Audit comprises a fundamental component of the recurrent and strategic activities of nearly all professional occupations. While a small group of jobs focus exclusively on internal and external audit tasks, the majority of commerce graduates will utilise the principles and practices of risk assessment, internal control, systems evaluation and forensic accountability in their professional lives. This course thus aims to provide an introduction to the principles and practices of auditing. In this context, it will also outline and critically examine contemporary audit issues and challenges.

Agricultural Business

Level I

AGRIBUS 1009RW

Rural Business Planning A

- 3 units - semester 2
- 5 hours lecture/tutorial per week
- Assessment: weekly tutorial exercises 15%, case study 35%, exam 50%

The concepts involved in planning a farm business and determining options for land use and enterprise selection are presented and the financial tools for measuring farm performance including gross margins and cash flow budgets introduced. Topics include perspectives of agriculture, management and business planning, options for land use, enterprise selection, production management, sustainability and capability of land for production, resource constraints, marketing in the business plan, physical and financial records, farm business administration, ethics and decision-making.

AGRIBUS 1016EX

Introduction to Business Management

- 3 units - semester 1
- External only
- Assessment: assignments, final exam

Introduction to management, evolution of management, management environments, decision making, planning, strategic management, organising, organisational structure, human resource management, managing change and innovation, behaviour, motivation, leadership, communication, control, operations management, international management.

Level II

AGRIBUS 2004WT

Issues in Australian Agribusiness II

- 4 units - semester 2
- 2 lectures, 1 tutorial per week
- Assumed Knowledge: general marketing concepts
- Assessment: to be advised

This course focuses on current agribusiness issues in Australia. Of particular importance are inter-relationships between businesses and the macro environment. Topics will include world food balances, market failure, WTO, globalisation, value adding, diversification, quality and quality management, value chains and other developments in strategic marketing. Student seminar presentations are a critical component of this course.

AGRIBUS 2009WT

Issues in Australian Agribusiness

- 3 units - semester 2
- 2 lectures, 1 tutorial per week
- Assumed Knowledge: general marketing concepts
- Assessment: to be advised

This course focuses on current agribusiness issues in Australia. Of particular importance are inter-relationships between businesses and the macro environment. Topics will include world food balances, market failure, WTO, globalisation, value adding, diversification, quality and quality management, value chains and other developments in strategic marketing. Student seminar presentations are a critical component of this course.

AGRIBUS 2016EX

Introduction to Business Management

- 4 units - semester 1
- External only
- Assessment: assignments, final exam

Introduction to management, evolution of management, management environments, decision making, planning, strategic management, organising, organisational structure, human resource management, managing change and innovation, behaviour, motivation, leadership, communication, control, operations management, international management.

AGRIBUS 2033RW

Rural Finance and Marketing 3

- 4 units - semester 1
- 6 hours lecture/tutorial per week
- Assumed knowledge: AGRIBUS 1009RW Rural Business Planning A
- Assessment: exam 50%, assignments 50%

Financial decision making: measuring business growth, assets, liabilities and equity, financial tools including profit and loss statements and balance sheets; comparative analysis and benchmarking; investment appraisal tools and investment decision-making including machinery; taxation and tax management; legal issues including land purchase and succession planning. Marketing: market analysis, targeting of products, pricing, promotion and distribution strategies, current developments.

Level III

AGRIBUS 3001RW

Economics of Resource Management III

- 3 units - semester 1
- 3 lectures, 1 tutorial/seminar per week
- Assessment: assignments, seminar presentation, exam.

Principles of micro-economics as they relate to the allocation, use, and management of natural resources. Causes of market failure; and opportunities and scope for intervention and control. Introduction to some (alternative) paradigms of environmental management in development, including ecological economics. Developments re business and the natural environment.

AGRIBUS 3010WT

International Agri-Business Environment

- 3 units - semester 2
- 3 hours lectures/seminars per week
- Assessment: to be advised

This course provides an overview of the international business environment within which agribusinesses function. Topics include Australian trade and investment policies, international cooperation arrangements, legal and political issues, cross-cultural issues, strategies for entering foreign markets, strategic alliance issues, logistics, international human resource management issues, regional case studies. Student seminar presentations are a critical component of this course.

AGRIBUS 3012RW

Rural Business Management

- 3 units - semester 1
- 5 hours of lectures/tutorial per week
- Assumed Knowledge: AGRIBUS 2033RW Rural Finance and Marketing
- Assessment: case studies 65%, tutorial exercises 15%, exam 20%

A case study approach incorporating financial, marketing and production and human resource management tools will be used and emphasis given to decision making techniques, technology adoption and management of risk, along with monitoring and evaluating the farm business. Topics include: agriculture in the economy, introduction to production economics, forward selling, futures and options, alternative enterprises/new industries and management of human capital.

AGRIBUS 3015WT

Special Project (Research Paper) B

- Students work independently with supervisor/co-supervisor
- Assessment: seminar presentation, dissertation

Each student is to undertake an individual project of significant size which exhibits original investigation, analysis and interpretation, and which results in the production of a well-written and well-presented report. The project may comprise a major literature review (at least 10000 words), research project, case study of a business or related enterprise, or some other approved study.

AGRIBUS 3017WA

AGRIBUS 3017WT

Business Management for Agricultural Science

- 3 units - semester 2
- 5 lectures/student centred learning per week
- Assessment: assignments, tutorial exercises 35%, business plan 25%, 3 hour exam 40%.

The aim of this course is to provide perspective and understanding of the overall role of business and its place in the agricultural industry and the economy and to demonstrate linkages between various management functions. Aspects covered include what is business? business management, business planning, accounting management, marketing management, strategic planning, budgeting, decision making, organisation design, human resources management and monitoring.

AGRIBUS 3041WT

International Agribusiness Environment III

- 4 units - semester 2
- 3 hours lectures/seminars per week
- Assessment: to be advised

This course provides an overview of the international business environment within which agribusinesses function. Topics include Australian trade and investment policies, international cooperation arrangements, legal and political issues, cross-cultural issues, strategies for entering foreign markets, strategic alliance issues, logistics, international human resource management issues, regional case studies. Student seminar presentations are a critical component of this course.

AGRIBUS 3043RW

Human Resource Management (REM)

- 3 units
- Assessment: assignments, written reports, exam

Human resource planning in relation to the organisation's objectives; recruitment; selection; induction/socialisation; training and development; career development; motivation; performance appraisal; benefits and services; OH&S: union relationships.

AGRIBUS 3044RW

Individual Studies Rural Enterprise Management

- 3 units - semester 1 or 2
- Assessment: written report and seminar

A guided study program approved by the Course Adviser in an area applicable to the student and on a defined situation or problem.

AGRIBUS 3046RW

Leadership in Agri Industries

- 3 units - semester 1 or 2
- Assumed Knowledge: general management principles
- Assessment: assignments, exam

Leadership in theories, Karpin Report, contemporary issues in leadership, interpersonal skills and leadership development, innovation and creativity, development and communication of proposals, agri-politics and primary producer and associated professional organisations.

AGRIBUS 3047RW

Organisational Management for Rural Enterprises

- 3 units - semester 2
- Assessment: assignments, exam

Organisational culture and environment, managerial ethics, strategic management and entrepreneurship, managing change and innovation, logistics, control and operations management, performance indicators.

AGRIBUS 3049RW

Marketing of Rural Commodities

- 3 units - semester 1
- Assessment: written report, seminar

Identify the market potential for products, including needs analysis of target markets: understand the mechanisms and processes required including institutional processes, support programs, cultural and legal issues and financial and logistical processes. Monitoring price movements in the market place and evaluating the relative importance of price changes, currency movement and government policies. Preparation of a marketing plan.

AGRIBUS 3050WT

Grape and Wine Business Management

- 3 units- semester 2
- 3 lectures, 1 tutorial per week
- Assumed Knowledge: AGRIBUS 3017WT Business Management for Agricultural Science
- Assessment: 3 exams 60%, assignments, tutorial exercises 40%

The course will develop concepts of the strategic management of viticultural enterprises: business planning, particularly developing a marketing plan in the light of domestic and international markets, and financial planning including annual and development budgets, investment analysis and taxation planning. Monitoring will be covered with an emphasis on accounting systems.

Agriculture

Level I

AGRIC 1000RW

Perspectives on Modern Agriculture

- 3 units - semester 1
- Restriction: PLANT SC 1000 Environment and Society, PLANT SC 1000RW Environment and Society, AGRON 1010RW Agricultural Production Systems
- Assessment: assignments 50%, final exam 50%

The course examines important concepts and issues of modern agriculture in Australia and internationally. Perspectives on Modern Agriculture will provide an overview of the development of present-day agricultural systems, the successes and problems associated with this development and examine the opportunities for agricultural science to contribute to sustainable improvements in productivity and quality and to the development of new products and markets. The course will examine technological, economic and social drivers of change in modern agriculture and the response of the agricultural industries to these.

Level III

AGRIC 3004

Elements of Environmental Law

- 2 units - first half of semester 1
- 1 lecture per week, 2 hour seminar each fortnight
- Assessment: to be advised

Introduction to the legal system; introduction to environmental law; the Constitution, federation and the environment; regulating and assessing development; procedural rights with respect to the environment; protection of environmental quality; risk assessment and the precautionary principle; protection of biological diversity.

Agronomy

Level I

AGRONOMY 1006RW
Agricultural Experience I Part 1

- 1.5 units 1 semester
- 40 days practical agricultural experience, 12 three-hour demonstrations, 5 days agricultural business experience
- Assessment: assignments 30%, practical experience 45%, theory exam 25%

Students are rostered on the agricultural enterprises of the Roseworthy campus farm where skills and knowledge in the practice of agriculture are developed. Practical demonstrations on a broad range of farm enterprise operations are presented and involve students in developing their skills and knowledge. Students are required to negotiate 5 days work experience with an agribusiness company which provides a service to the rural industry.

AGRONOMY 1006RW
Agricultural Experience I Part 2

- 1.5 units - semester 2
- 40 days practical agricultural experience, 5 days agricultural business experience, 12 x 3 hour demonstrations
- Assessment: assignments 30%, practical experience 45%, theory exam 25%

Students are rostered on the agricultural enterprises of the Roseworthy campus farm where skills and knowledge in the practice of agriculture are developed. Practical demonstrations on a broad range of farm enterprise operations are presented and involve students in developing their skills and knowledge. Students are required to negotiate 5 days work experience with an agri-business company which provides a service to the rural industry.

Level II

AGRONOMY 2008RW
Agricultural Experience II

- 2 units semester 2
- 12 week day agricultural experience, 35 days off-campus farm experience, weekly tutorials
- Assessment: reports, seminars 60%, practical experience 40%

Students are rostered on agricultural enterprises where skills and knowledge in the practice of agriculture are developed. Student involvement on weekends includes taking responsibility for the operation of enterprises. Students are involved in the management of their elective enterprise and are required to undertake a problem solving contract which addresses the issues and provides practical recommendations. Students are required to undertake 35 days off-campus work experience on an approved farm, which will provide them with the opportunity to evaluate forms of agricultural productivity and management practices.

AGRONOMY 2012RW
Engineering Principles

- 3 units - semester 1
- 6 hours lectures, tutorials and practicals per week
- Assumed Knowledge: SACE Stage 2 Mathematics 1
- Restriction: AGRONOMY 1001RW Engineering in Agriculture; AGRONOMY 2012RW Engineering Science; CHEM ENG 1001 Engineering Physics
- Assessment: practicals, assignments, project, exam

Engineering has made modern agriculture possible and knowledge of some aspects of the discipline may be used in the improved management of many enterprises.

This course uses practical applications of engineering to illustrate engineering principles and assists managers. Topics in the course include tractor safety and performance, water supply systems, building materials, electrical equipment and tension and electric fencing to illustrate the basic principles of machinery and fluids and elementary concepts of structures and electricity.

AGRONOMY 2013RW
Production Agronomy

- 4 units - semester 2
- 3 hours lectures, 3 hour practical per week, 1 tutorial per fortnight
- Assumed Knowledge: AGRIC 1000RW Perspectives in Modern Agriculture
- Assessment: exam 60%, practical reports 40%

This course delivers practical understanding of selection, establishment, management and utilization of crops and pastures in the main rainfall and soil environments encountered in southern Australia. Topics include: weed, pest and disease management; species and cultivar identification, selection and use of crops and pastures; rotations and planning; tillage, nutrition and fertilizers; irrigated agriculture.

Level III

AGRONOMY 3000RW
Agroforestry

- 3 units- semester 2
- 2 hours lectures; 4 hours of associated practical work excursions per week - option to take course online with attendance at 2-3 full day field trips
- Assessment: to be advised

Topics include: Agroforestry for functional mimicry of natural ecosystems; Landuse systems with balanced water use; Trees for shelter, shade and soil conservation; Biodiversity and habitat management; Farm sawlog, firewood and pulpwood production systems; Trees in grazing and fodder systems; Specialty tree products; Integrated production systems; Design and evaluation of agroforestry; Establishing trees on farms; Socio-economic evaluation of agroforestry for the management of dryland salinity; Adoption of agroforestry in Australia; Institutions supporting the implementation of agroforestry.

AGRONOMY 3004RW

Land Management Systems for the Future

- 3 units - semester 2
- 6 hours per week
- Assumed Knowledge: AGRONOMY 1010RW Agricultural Production Systems or PLANT SC 1000 Environment and Society; AGRONOMY 2004RW Land Management Systems II
- Assessment: assignments and reports

Australia faces a number of constraints and uncertainties in achieving an effectively integrated approach to agricultural and natural resource management, including the biophysical environment, political/economic pressures, problems of scale and social/cultural factors. This capstone course in integrated, regional, environmental and land-use planning and management allows students to explore these issues, and any others they identify as relevant to their future. Topics include: natural resource accounting and the emergence of ecological economics, land ownership evaluation and legislative influences; current and future options for alternative land management systems; holistic management of on and off site impacts for intensive and extensive agri-industries; environmental management systems; alternative energy sources.

AGRONOMY 3005WT

Irrigation Science

- 3 units - semester 1
- 6 hours per week
- Prerequisite: AGRONOMY 2012RW Engineering Science or AGRONOMY 1001RW Engineering in Agriculture or CHEM ENG 1001 Engineering Physics or AGRONOMY 2012RW Engineering Principles
- Assessment: practicals, assignments, written examinations

Irrigation principles: evapotranspiration and soil moisture budget, crop requirements (peak rate and crop factor), adjustments for salinity (leaching fraction), sprinkler and dripper characteristics, sprinkler and dripper layout, hydraulics of pressure irrigation systems, irrigation scheduling, leveling, automatic controllers.

AGRONOMY 3008RW

Individual Studies (Ag)

- 3 units - semester 1 or 2
- Formal contact between student and supervisor during the project by mutual agreement
- Assumed Knowledge: AGRONOMY 1006ARW Agricultural Experience I; AGRONOMY 2008RW Agricultural Experience II (B.Ag.)
- Assessment: contract/project

Either an individual project/case study of significant size which exhibits original investigation, analysis and interpretation, and which results in the production of a well-written and well-presented report. The project may comprise a major literature review, a research project or some other approved study; or a self-directed consultancy/contact which involves the identification of a management issue on either a campus or external commercial enterprise.

AGRONOMY 3012RW

Advanced Agronomy

- 3 units - semester 1
- 3 Lectures, 3 hour practical per week
- Assumed Knowledge: AGRONOMY 2013RW Production Agronomy or PLANT SC 2001WT Agricultural Botany
- Assessment: exam 50%, essays/practical report 50%

This course aims to provide students with an understanding of some of the important physiological principles to crop and pasture production and how these principles can be applied to agricultural systems. The course has three modules: physiological bases of crop and pasture growth and resource utilisation, the use of simulation modelling to understand and explore the function of production systems and a series of case studies on topical issues related to crop and pasture production. Specific topics covered include water use and water use efficiency, dry matter production and partitioning, the dynamics of water and nitrogen balances in agricultural systems, competitive crops, abiotic stress and its management and high performance pastures.

AGRONOMY 3015WT

Viticultural Engineering and Operations

- 3 units - semester 2
- 6 hours per week
- Prerequisite: VITICULT 2002WT Viticultural Science
- Assessment: assignments, tutorials, practicals, written exams

Tractor performance and safety, engine characteristics, power transmission, traction, hydraulics. Trellis design and performance. Water storage performance. Principles and practices of vineyard operations including tractor and machinery operation, spray equipment calibration and spray application. Pruning, training, trellis

erection and repair, propagation and other activities. Students are required to work in the campus vineyards. This course includes visits to commercial vineyards.

AGRONOMY 3016WT

Crop and Pasture Ecology

- 3 units - semester 2
- 2 lectures, 4 hour practical per week
- Assumed Knowledge: PLANT SCI 2001WT Agricultural Botany or AGRONOMY 2004 Land Management Systems II or AGRONOMY 2013RW Production Agronomy
- Assessment: exam 50%, assignments 50%

Crops and pastures are plant communities that are managed mainly for the production of food and fibre. Those used in agriculture range from natural vegetation to specialised, sown annual monocultures. It is important to understand how these communities function if they are to be productive. This course examines the structure and functioning of agricultural plant communities. Topics that will be covered include an examination of the similarities to, and differences between sown and natural communities, the effects of climate on the distribution and productivity of crops and pastures, interaction between a crop or pasture and its environment, competition, the impact of the grazing animal and the importance of genetic diversity among plants to adaptation to the environment and to agricultural productivity.

AGRONOMY 3020RW

Principles and Practice of Communications

- 3 units - semester 1
- 5 hours of lectures and practical sessions per week
- Assessment: exam 25%, assignments, practical exercises 75%

This course develops the communication skills and knowledge necessary for all levels of professional activity in rural resource management. Communication theory and context is discussed through topics of: extension science and technology transfer; adult and action learning theory; how groups work and facilitating community participation; gender and diversity; community-based natural resource management. Invited speakers from agribusiness, government, rural community and research sectors provide current and practical perspectives to this theory. Specific skills are developed in: oral presentation, selection and preparation of information and its presentation medium for a variety of audiences and purposes; interpersonal communication; conflict resolution and negotiation; leadership; the process of the planning and evaluation of communication programs; and job search and interview techniques.

AGRONOMY 3025RW

Indigenous Australians & Environmental Management

- 3 units - not offered in 2005
- Equivalent of 5 hours per week (includes vacation field camp)
- Quota will apply
- Assessment: practicals/assignments

Contemporary land and resource use and management by Aboriginal people, and its relationship to sustainable development. Theoretical frameworks drawing on development studies, emphasising concepts of empowerment and indigenous self determination, and participatory approaches to resource management. Exploration of the positive and negative impacts of Australian resource management on indigenous people. Aboriginal world views, social organisation and relationships to country. Skills in communicating and negotiating with Aboriginal people. Specific topics covered include Aboriginal ecologies; subsistence economies; land and sea rights including native title; co-management regimes; heritage management; the role of Aboriginal organisations in environmental management.

AGRONOMY 3026RW

Ecology and Management of Rangelands

- 3 units - part semester 2, winter vacation (+ 10-day field camp)
- Assumed Knowledge: APP ECOL 2010WT Population Ecology or SOIL&WAT 2001RW Community Ecology, or equivalent
- Assessment: project reports 50%, theory exam 50%

A course in ecology emphasising the study of interactions between grazing animals and the vegetation in arid areas, the principles involved and their application to management practices. Particular attention is paid to the impact of domestic, feral and native herbivores on the population dynamics of the dominant woody perennials, and the maintenance of their stabilising influence on the landscape. The bulk of the teaching is done at Middleback, a working sheep station set in the western myall woodlands on the southern margins of the north-west pastoral district of South Australia. The main focus on ecology of these arid woodlands and their highly productive saltbush-bluebush understorey, is taught in the context of the history of land use, subsequent research, the ensuing legislation, and its administration, with input from pastoralists and government officers where appropriate.

Honours

AGRONOMY 4001RW

Honours Agronomy & Farming Systems (B.Ag.)

- 24 units - full year
- Prerequisite: at least credit standard in appropriate Level II & III stream courses (9 units) offered by Discipline or permission of Head of Discipline

- Assessment: research thesis, associated seminars 50% - remainder as presented in course descriptions

Candidates are expected to acquire a more detailed knowledge than is required in the degree. They are required to complete successfully 12 units of coursework including 6495 Research Methodology (4 units) and two of the following 4 unit Level IV courses: 6363 Crops & Pastures, 1581 Dryland Farming Systems, 1328 Extensive Livestock, 1058 Rural Sociology, 2793 Social Psychology, 7518 Communications and Agricultural Extension, 8597 Agricultural Engineering. In addition, candidates are expected to study more deeply one branch of Agronomy and Farming Systems, by undertaking research to the value of 12 units in this field and to present the results in a written thesis and through the presentation of a seminar.

AGRONOMY 4002RW

Honours Agronomy & Farming Systems (B.Ag.Sc.)

- 12 units - full year
- Prerequisite: credit or higher in two level III courses relevant to the research topic and approved by Head of Discipline
- Corequisite: Two additional level III courses relevant to the proposed research project and approved by Head of Discipline

Students wishing to undertake an Honours degree should consult the Honours Coordinator and the potential supervisors as soon as their intention in known, but no later than the end of semester 2 in the third year of their program. Studies commence at the beginning of February (normal intake) or July, (mid-year intake). A candidate will be required to undertake a research project under one or more members of the academic staff and present seminars and a thesis on their research work. The research project could be undertaken in one of the following areas: crop and pasture agronomy; weed ecology and management; plant ecology and farming systems; soil management; tillage effects and water use efficiency; agricultural engineering; agroforestry; communications and extension.

AGRONOMY 4003RW

Honours Agronomy & Farming Systems (BNRMgt)

- 24 units - full year
- Prerequisite: at least credit standard in appropriate level II and III stream courses to the value of 9 units offered by the discipline or special permission of the Head of Discipline
- Assessment: research thesis and associated seminar 50% - as presented in course descriptions

Candidates are expected to acquire a more detailed knowledge than is required in the ordinary degree. They are required to complete successfully 12 units of coursework including 6495 Research Methodology (4 units) and two of the following 4 unit Level IV courses: 6363 Crops and Pastures, 1581 Dryland Farming Systems, 1328 Extensive Livestock, 1058 Rural Sociology, 2793 Social Psychology, 7518 Communications and Agricultural Extension, 8597 Agricultural Engineering. In addition, candidates are expected to study more deeply one branch of Agronomy and Farming Systems, by undertaking research to the value of 12 units in this field and to present the results in a written thesis and through the presentation of a seminar.

Anatomical Science

Level I

ANAT SC 1102

Human Biology IA

- 3 units - semester 1
- 3 lectures, 3 hours tutorial/laboratory work per week
- Available for non-award study
- Eligibility: B.Hlth.Sc. & B.Psych (Hons) students only
- Assessment: competency exercises, laboratory & tutorial tests, written exam

Human Biology is the study of human life. As such, Human Biology incorporates a variety of disciplines and focuses on issues that affect humans at the individual, populations and species levels. As well as introducing students to content, emphasis is placed on developing skills in researching, critically analysing and communicating scientific information relevant to the study of humans. Human Biology IA investigates the relationships between normal structure and function in human cells, tissues and organs, along with mechanisms that maintain homeostasis within an individual.

ANAT SC 1103

Human Biology IB

- 3 units - semester 2
- 3 lectures, 3 hours tutorial/laboratory work per week
- Available for non-award study
- Assumed knowledge: Human Biology IA
- Eligibility: B.Hlth.Sc. & B. Psych. (Hons.) students only
- Assessment: laboratory report, group poster presentation, written exam

Human Biology is the study of human life. As such, Human Biology incorporates a variety of disciplines and focuses on issues that affect humans at the individual, population and species levels. As well as introducing students to content, emphasis is placed on developing skills in researching, critically analysing and communicating scientific information relevant to the study of humans. In Human Biology 1B, the focus is primarily on factors that influence and shape human populations and the human species. Topics include human evolution, genetics and diversity, reproduction, human disease and defence systems, and interactions between humans and their environment.

Level II

ANAT SC 2102
Cells, Tissues & Development II

- 4 units - semester 1
- 3 lectures, 2.5 hours tutorial/practical work per week
- Eligibility: B.Hlth.Sc. & B.Psych. (Hons) students only
- Prerequisite: ANAT SC 1102A/B Human Biology I
- Assessment: final written & practical exams 60%, mid-semester test, tutorial papers, seminars and slide description 40% - details provided at commencement of course

The histology component of this course investigates the light and electron microscopic structure of organs and systems of the human body and their relationships to function and builds upon knowledge of basic tissues gained in Human Biology I. Emphasis is placed on the interrelationships between various tissue types comprising an organ or a system and on structure/function relationships in healthy individuals. Topics investigated include blood and haemopoiesis, the respiratory, cardiovascular, lymphoid, renal, digestive, endocrine and reproductive systems. The embryology component focuses on the morphological development of the early conceptus, including fertilisation, implantation, early differentiation and the structural aspects of maternal-embryonic interactions.

Practical and tutorial sessions provide opportunities for visual investigation of material and expansion of concepts presented in the lectures.

ANAT SC 2103
Functional Human Anatomy II

- 4 units - semester 2
- 3 lectures, 3 hours tutorials/practicals per week
- Eligibility: B.Hlth.Sc. & B. Psych. (Hons) Prerequisite: ANAT SC 1102A/B Human Biology I or equivalent
- Restriction: 6498 Human Biology II
- Assessment: written & practical exams, tutorial papers, research project

Students will be introduced to the basic principles of anatomy as well as study in detail the clinical and functional anatomy of the human musculoskeletal system. Teaching sessions will include lectures, tutorials, student presentations and practicals, which make use of both prosections and dissection. In addition to formal teaching sessions, students must undertake a research project, the results of which will be reported as a poster presentation. The content will include detailed information, including that from imaging techniques, on the anatomy of the lower limb, upper limb, vertebral column, pelvis and head with emphasis on the musculoskeletal and nervous system. In addition, students will study the more advanced functional aspects of muscle and joint anatomy.

ANAT SC 2104
Cells and Tissues II

- 4 units - semester 1
- 3 lectures, 1 tutorial, 2 hours practical per week
- Prerequisite: Biology 1101/1102, Biology 1: Molecules, Genes and Cells A/B and Biology 1201 Biology 1: Human Perspectives or Biology 1202 Biology 1: Organisms
- Restriction: 7996 Functional and Comparative Anatomy II
- Assessment: final written & practical exams 60%, mid-semester test, tutorial & practical assignments 40% - details provided at commencement of course

This course considers the structure and function of cells and tissues of the mammalian body. Study of ultrastructural characteristics of the typical mammalian cell is followed by consideration of the structure of tissues, organs and systems. The features of the cells, their arrangement and their intercellular products are considered with emphasis on the relationship between microscopic structure and function. Human examples are mainly used with some material from other mammalian species. Routine techniques used for the study of cells and tissues at the light and electron microscopic levels as well as the principles of microscopy are presented early in the course.

Practicals have a problem-solving approach and illustrate topics covered in lectures. Weekly tutorials form a large component of the continuous assessment and give students regular feedback information on their progress in the course. Students are also given the opportunity to view the transmission and scanning electron microscopes.

ANAT SC 2105
Comparative Anatomy of Body Systems II

- 4 units - semester 2
- 3 lectures and up to 6 hours of practical per week
- Prerequisite: biology 1202 Biology 1: Organisms or an equivalent
- Restriction: ANAT SC 2008 Functional and Comparative Anatomy II
- Assessment: written exam 60%, continuous assessment 40%

This course studies how body structures relate to the functional needs of different vertebrate groups. The functional anatomy of human body systems is used as a template to compare these systems in other vertebrate animals, particularly mammals. In practicals systems are examined using human and mammalian prosected body components and skeletons. Some practical sessions include dissection of selected vertebrate groups.

ANAT SC 2106
Ethics, Science and Society II

- 4 units - semester 1
- 4 hours lectures, tutorials/PBL sessions per week

- Available for Non-Award study
- Prerequisite: Level 1 courses to the value of 12 units
- Assessment: tutorial participation, case presentation/analysis, essay, reports; total approx.6000 words

This course aims to develop students' awareness of the ethical and social challenges in the health sciences. It is suitable for health sciences, science and humanities and social science students. Topic areas may include ethical analysis of the following; research practice; reproduction and reproductive technologies; genetics; animal and human experimentations; death and dying. The focus on these topical issues in modern sciences will be underpinned by an introduction to the philosophy of science and methods in bioethics.

Level III

ANAT SC 3101

Biological Anthropology

- 3 units - semester 2
- Prerequisite: ANAT SC 2105 Comparative Anatomy of Body Systems, ANAT SC 2103 Functional Human Anatomy or equiv. approved by Head of Department
- Assessment: written exam 55%, research project 45%

The objectives of this course are to appreciate the biological nature of humans and to appreciate the biological variability of humans. Our evolutionary origins are discussed as well as place of humans in nature. Students will learn skills in anthropometric examination and in skeletal identification for forensic and archaeological purposes. Aspects of Biological Anthropology such as dental anthropology and paleopathology will also be presented. Students will be required to complete a research project and actively participate in seminars and discussion sessions. Lecture topics include: the place of humans in nature, hominid evolution and its mechanisms, recent human evolution and human evolutionary future, modern human biological variation, primatology, human population dynamics and ecology, human physical growth and development, osteology and forensic applications of anthropology. Research skills are learned in a problem based, self-directed mode.

ANAT SC 3102

Comparative Reproductive Biology of Mammals

- 3 units - semester 1
- 2 lectures, 4 hours practical/tutorial work per week
- Prerequisite: ANAT SC 2102 Cells, Tissues and Development II or ANAT SC 2103 Functional Human Anatomy or ANAT SC 2105 Comparative Anatomy of Body Systems
- Assessment: written exam 80%, project/essay 20%

This course covers a study of mammalian reproductive biology with emphasis on the cell biology of various reproductive processes. The first few lectures cover sex determination and sex differentiation together with the development of the gonads, gonadal ducts and external genitalia. The differentiation, and dynamics of production, of the male and female gametes are then considered together with changes that occur to the spermatozoon during transit of the male and female genital ducts. The cell biology of sperm-egg interactions and fertilisation are then given, followed by the processes involved in egg activation and differentiation of the early conceptus. An account of macromorphological and cellular changes associated with implantation, placentation and lactation in various groups of mammals are then covered. The causation of, and ways of overcoming, infertility in the human species and the biological principles underlying contraceptive technology are then detailed. Finally the application of assisted reproductive technology to conservation of rare and endangered species is considered. Students have either to carry out a research project in which experience in the use, and application, of a variety of light and electron microscopical procedures to a study of reproductive biological processes is obtained, or to write an in depth essay on a specialised topic of reproductive biology.

ANAT SC 3103

Integrative and Comparative Neuroanatomy

- 3 units semester 1
- 2 lectures, 4 hours practical work a week
- Prerequisite: ANAT SC 2102 Cells, Tissues & Development II or ANAT 2103 Functional Human Anatomy II or ANAT SC 2105 Comparative Anatomy of Body Systems II or equivalent
- Restriction: 9646 Head and Neck and Neuroanatomy, 9932 Neuroanatomy and Neuroendocrinology, 5045 Special Sense Organs
- Assessment: project (including seminar) 20%, practical exam 20%, written exam 60%

This course has as its base the functional anatomy of the human nervous system. It also deals with (i) the comparative morphology and evolution of the vertebrate central nervous system and (ii) the structure and function of sense organs and how sensory information is processed and integrated by the central nervous system. The human neuroanatomy component focuses on the main subdivisions of the brain and spinal cord, sensory and motor pathways, pain and thermoregulatory mechanisms and neural degeneration and regeneration. The comparative component will cover the functional morphology and evolution of visual and auditory reception and processing in different environments, extra-retinal photoreceptors and their role in circadian rhythms, and chemo-receptive mechanisms. Some lesser known sensory systems will be examined such as infrared receptors of snakes. Practicals will include a study of human and other vertebrate brains as well as a small dissection or analytical research report.

ANAT SC 3104
Structural Cell Biology

- 3 units - semester 2
- 2 lectures, 4 hours tutorial/practical work a week
- Prerequisite: ANAT SC 2103 Functional Human Anatomy II (Pass) or ANAT SC 2102 Cells Tissues & Development or equivalent
- Restriction: 7997 Topics and Techniques in Cytology
- Assessment: written 60%, practical/project/ presentation 40%

This course presents a wide coverage of the techniques used in morphological studies of cells. The course considers how specific techniques and methods such as different types of electron and light microscopy, tissue preparation and (immuno) histochemistry, autoradiography and stereology are used to study structural cell biology. Principles, theory and application are emphasised rather than acquisition of technical expertise. A number of special topics in structural cell biology are studied and used as practical examples of some current research trends in research in structural cell biology.

ANAT SC 3105
Limb Dissection

- 3 units - semester 2
- 3 hour practical session per week
- Eligibility: MBBS level 2 and 3 students only
- Assessment: 2x30 min spotter exams 15% each, research project 25%, research project defence 15%, dissection practical 30%

This course will involve a study of the functional anatomy of the limbs through dissection and the study of prosected specimens, radiographs, CT scans and MRI scans. Students will dissect upper and lower limbs as well as complete a research project. The research project will involve the investigation of a clinical problem through dissection. Students will either select a clinical problem from a list provided by staff or they can suggest a problem that is of interest to them. Students will work in groups of 3 and will be expected to undertake appropriate library research prior to beginning the research project. They will also be expected to either (1) prepare and defend a video illustrating their project or (2) prepare and defend a poster illustrating their project.

ANAT SC 3106
Ethics, Science and Society III

- 6 units - semester 1
- 4 hours lectures, tutorials/PBL sessions per week
- Eligibility: B.Hlth.Sc. & B.Psych (Hons) students only
- Prerequisite: Level II courses to value of 12 units
- Restriction: ANAT SC 2106 Ethical Issues in the Biomedical Sciences II (Pass)
- Assessment: tutorial participation, case presentation/analysis, essay, reports, to total of approx. 9000 words

This course aims to develop students' awareness of the ethical and social challenges in the health sciences. It is suitable for health science, science, and humanities and social science students. The topic areas may include ethical analysis of the following: research practice; reproduction and reproductive technologies; genetics; animal and human experimentation; death and dying. The focus on these topical issues in modern science will be underpinned by an introduction to the philosophy of science and methods in bioethics.

Honours

ANAT SC 4000
Honours Anatomical Sciences

ANAT SC 4100
Honours Anatomical Sciences Mid-Year

- 24 units - full year
- Prerequisite: credit average of 9 units (Sc.) or 6 units (Hlth.Sc.) in Anatomical Sciences Level III courses or other comparable biological courses (subject to departmental approval)
- Assessment: research project - literature review, thesis/journal article, seminar and thesis defence 70%, components non related to the research project - essay & seminar 30%

The research project will be carried out under the guidance of an academic staff member, the supervisor. In addition, each student will also have an academic mentor. The Honours program is of 40 weeks duration and enrolments are in December/January for the February program. Prospective candidates should consult the Honours coordinator and the potential supervisor towards the end of their final year of the degree program in order to secure a place in the Honours program. More information can be found at www.adelaide.edu.au/health/anat/students/honours.html

Ancient Greek

Level I

AGRE 1101
Ancient Greek I

- 3 units - semester 2
- Available for Non-Award study
- 3 lectures per week
- Prerequisite: AGRE 1102 Introduction to Latin and Ancient Greek I (Pass Div. 1) or equivalent
- Restriction: not available to students with satisfactory level of achievement in SACE Stage 2 Ancient Greek or equivalent
- Assessment: 4 semester tests 40%, end of semester exam 60%

The course is a continuation of AGRE 1102 Introduction to Latin and Ancient Greek I. It introduces students to some of the more

complex grammatical constructions of Ancient Greek with a view to enabling them to read and comprehend (modified) texts in the original language. Students are required to complete a variety of language tasks including translation both into and from Ancient Greek and answering comprehension questions on passages in Ancient Greek. This course develops students' ability to identify and analyse sophisticated grammatical constructions and improves their comprehension skills.

AGRE 1102

Introduction to Latin and Ancient Greek I

- 3 units - semester 1
- Available for Non-Award study
- 4 lectures per week
- Restriction: not available to students with satisfactory level of achievement in SACE Stage 2 Latin and Ancient Greek or equivalents - students with only one of these languages may be allowed to enrol (apply to Classics language coordinator)
- Assessment: 4 semester tests 40%, end of semester exam 60%

The course aims to familiarise students with traditional grammatical concepts and parts of speech while helping them to gain mastery over the alphabets and basic vocabulary of both Latin and Ancient Greek. It also introduces the concept of an inflected language, that is, a language that relies on word modification to convey different meanings, unlike English, which relies on word order. This course has value both as a preparation for the study of Latin and/or Ancient Greek in subsequent semesters and as an independent course for deepening understanding of how languages, including English, function. Students are required to complete a variety of tasks, including exercises on English grammar and exercises on translating both from and into Latin and Ancient Greek.

Level II

AGRE 2002

Ancient Greek II Part 1

- 4 units - semester 1
- 3 lectures per week
- Prerequisite: AGRE 1101 Ancient Greek I (Pass Div 1) or equivalent, or satisfactory achievement in SACE Stage 2 Ancient Greek
- Assessment: semester tests 40%, 3 hour exam on translation, grammar & comprehension 60%

This course aims to consolidate students' understanding of the more complex and sophisticated grammatical constructions of the Greek language while introducing them to the reading of (modified) texts written in the original language. Two hours per week will be devoted to the study of grammar and syntax in which students will be required to complete a variety of language tasks including translation both into and from Ancient Greek. One hour per week will be devoted to the reading of (modified) passages from Greek texts, including unseen comprehension.

AGRE 2003

Ancient Greek II Part 2

- 4 units - semester 2
- 3 lectures per week
- Prerequisite: AGRE 2002 Ancient Greek II Part 1 (Pass Div 1) or equiv
- Assessment: 2 grammar tests during semester, 2 end of semester exams - 1 on preparation text and discussion text, 1 on ability in unseen translation

The course aims to: 1) consolidate and improve reading skills and understanding of grammatical constructions; 2) enhance ability to comprehend and interpret Greek literature; 3) give students an understanding and appreciation of the literature and culture of Ancient Greek society. One hour per week will be devoted to the study of grammar and syntax, including unseen comprehension. One hour will be spent on a preparation text, prepared beforehand and translated in class with attention given to grammatical understanding and analysis. One hour per week will be devoted to a discussion text with attention given to literary analysis as well as translation.

AGRE 2101

Ancient Greek IIS

- 4 units - semester 2
- 3 lectures per week
- Prerequisite: acceptance for Honours, AGRE 2102 Introduction to Latin and Ancient Greek IIS (Pass Div 1) or equivalent
- Restriction: not available to students with a satisfactory level of achievement in SACE Stage 2 Ancient Greek or equiv.
- Assessment: 4 semester tests 40%, end of semester exam 60%

The course is a continuation of AGRE 2102 Introduction to Latin and Ancient Greek IIS. It introduces students to some of the more complex grammatical constructions of the Ancient Greek language and expands their Ancient Greek vocabulary with a view to enabling them to read and comprehend (modified) texts in the original language. Students are required to complete a variety of language tasks including translation both into and from Ancient Greek and answering comprehension questions on passages in Ancient Greek. This course develops students' ability to identify and analyse sophisticated grammatical constructions and improves their comprehension skills.

AGRE 2102

Introduction to Latin and Ancient Greek IIS

- 4 units - semester 1
- 4 lectures per week
- Prerequisite: acceptance for Honours

- Restriction: not available to students with satisfactory level of achievement in SACE Stage 2 Latin and Ancient Greek or equiv - students with only one of these languages may be allowed to enrol (apply to the Classics language coordinator)
- Assessment: 4 semester tests 40%, end of semester exam 60%

The course aims to familiarise students with traditional grammatical concepts and parts of speech while helping them to gain mastery over the alphabets and basic vocabulary of both Latin and Ancient Greek. It also introduces the concept of an inflected language, that is, a language that relies on word modification to convey different meanings, unlike English, which relies on word order. This course has value both as a preparation for the study of Latin and/or Ancient Greek in subsequent semesters, and as an independent course for deepening understanding of how languages, including English, function. Students are required to complete a variety of tasks, including exercises on English grammar and exercises on translating both from and into Latin and Ancient Greek.

LEVEL III

AGRE 3002
Ancient Greek III Part 1

- 6 units - semester 1
- 3 lectures per week
- Prerequisite: AGRE 2003 Ancient Greek II Part 2 (Pass Div 1) or equiv
- Assessment: sentences/proses during semester 15%, 3 exams: 1 preparation text & discussion text 30%, 1 unseen translation & translation from English 40%, 1 private reading text 15%

The course aims to: 1) enable students to gain complete mastery over the language structure; 2) improve their reading skills over a variety of genres and writing styles; 3) enhance their understanding and appreciation of the literature and culture of the society. One hour per week will be devoted to the study of grammar and syntax, including unseen comprehension and translation from English: in this class, students will be expected to hand up work for assessment. One hour will be spent on a preparation text, prepared beforehand and translated in class with attention given to grammatical understanding and analysis. One hour per week will be devoted to a discussion text with attention given to literary analysis as well as translation. In addition, a text is to be read privately during the semester, for examination at the end.

AGRE 3003
Ancient Greek III Part 2

- 6 units - semester 2
- 3 lectures per week
- Prerequisite: AGRE 3002 Ancient Greek III Part 1 (Pass Div 1) or equivalent
- Assessment: sentences/proses during semester 15%, 3 exams: 1 preparation text and discussion text 30%, 1 unseen translation & translation from English 40%, 1 private reading text 15%

The course aims to: enable students to gain complete mastery over the language structure; improve their reading skills over a variety of genres and writing styles; enhance their understanding and appreciation of the literature and culture of the society. One hour per week will be devoted to the study of grammar and syntax, including unseen comprehension and translation from English: in this class, students will be expected to hand up work for assessment. One hour will be spent on a preparation text, prepared beforehand and translated in class with attention given to grammatical understanding and analysis. One hour per week will be devoted to a discussion text with attention given to literary analysis as well as translation. In addition, a text is to be read privately during the semester, for examination at the end.

AGRE 3011
Ancient Greek IIIS Part 1

- 6 units - semester 1
- 3 lectures per week
- Prerequisite: acceptance for Honours and AGRE Ancient Greek IIS (Pass Div 1) or equivalent
- Assessment: semester tests 40%, 3 hour exam on translation, grammar and comprehension 60%

This course aims to consolidate students' understanding of the more complex and sophisticated grammatical constructions of the Greek language while introducing them to the reading of (modified) texts written in the original language. Two hours per week will be devoted to the study of grammar and syntax in which students will be required to complete a variety of language tasks including translation both into and from Ancient Greek. One hour per week will be devoted to the reading of (modified) passages from Greek texts, including unseen comprehension.

AGRE 3012
Ancient Greek IIIS Part 2

- 6 units - semester 2
- 3 lectures per week
- Prerequisite: acceptance for Honours, AGRE 3011 Ancient Greek IIIS Part 1 (Pass Div 1) or equivalent
- Assessment: 2 grammar tests during semester 10%, 2 end of semester exams, 1 on preparation text and discussion text 50%, 1 on ability in unseen translation 40%

The course aims to: consolidate and improve reading skills and understanding of grammatical constructions; enhance ability to comprehend and interpret Greek literature; give students an understanding and appreciation of the literature and culture of Ancient Greek society. One hour per week will be devoted to the

study of grammar and syntax, including unseen comprehension. One hour will be spent on a preparation text, prepared beforehand and translated in class with attention given to grammatical understanding and analysis. One hour per week will be devoted to a discussion text with attention given to literary analysis as well as translation.

Honours

AGRE 4401

Honours Ancient Greek

- 24 units - full year
- Prerequisite: Bachelors degree, credit average in courses contributing to major in Ancient Greek or equivalent approved by Head of Classical Studies
- Assessment: exams on 4 short texts or 2 long texts or 1 long & 2 short texts, 4000-5000 words of essay writing 33%; contribution to common course, 3000 word seminar paper 12%; semester 1 - proses, end of semester exam on unseen and prose translation 13%; semester 2 - 12500-15000 word dissertation 42%

Students wishing to take Honours Ancient Greek should consult the Honours Coordinator prior to commencing level II to ensure that appropriate course choices are made in preparation for Honours.

In some circumstances Honours Ancient Greek can be studied part-time over two years or can be combined with Honours in Latin or courses in another discipline.

Animal Science

Level I

ANIML SC 1014RW

Fauna Management

- 3 units - semester 2
- presented entirely online
- Assumed Knowledge: APP ECOL 1006RW Plant & Animal Diversity or equiv. (does not apply to B.Sc.(Animal Sc.) students for 2005)
- Assessment: theory (online) 20%, assignments 70%, online discussion group 10%

The course deals with the management of captive and wild populations. Topics covered include: the reasons for management; conflicts between humans and wildlife; the philosophical rationale for maintaining captive collections; management of diseases; development of ecologically based management strategies for the purpose of conservation, commercial harvesting and pest control; management of captive collections; legal and administrative framework

Level II

ANIML SC 2014RW

Fauna Survey and Management

- 4 units - semester 2
- presented online and field trips
- Assumed knowledge: two of - BIOLOGY 1101 Molecules, Genes and Cells A, BIOLOGY 1102 Molecules, Genes and Cells B, BIOLOGY 1201 Human Perspectives, BIOLOGY 1202 Organisms, APP ECOL 1003RW Biology of Plants and Animals
- Assessment: mix of contributions to discussion groups, 2 essays, final exam

The course deals with the survey and management of captive and wild populations of vertebrate animals. Topics covered include: survey methods used for wild vertebrate populations, the reasons for management; conflicts between man and wildlife; the philosophical rationale for maintaining captive collections; management of diseases; development of ecologically based management strategies for the purpose of conservation, commercial harvesting and pest control; management of captive collections; case histories of management of endangered species; legal and administrative framework.

ANIML SC 2029WA

ANIML SC 2029WT

Genes and Inheritance

- 4 units semester 2
- Prerequisite: ANIML SC 3045RW Animal Breeding and Genetics or APP ECOL 1004RW Cell Biology and Genetics
- Assessment: mix of practical reports, tests, final exam

The nature and structure of genetic material and the role of genes in determining the characteristics of organisms. The basis of inheritance and utilization of variation in breeding programs and natural selection. The relationship between genetics and the composition of natural and managed populations. The role of new technologies in genetic improvement.

ANIML SC 2030RW

Livestock Production Science

- 4 units - semester 2
- Assumed knowledge: ANIML SC 3045RW Animal Breeding and Genetics or APP ECOL 1004RW Cell Biology and Genetics and APP ECOL 1003RW Biology of Plants and Animals
- Assessment: mix of practical reports, written papers, tests, final exam

Livestock Production Science deals with the application of science animal production systems. The primary species are sheep and cattle but with reference to other species. Topics include on-farm

management to maximise profit and quality, animal welfare and handling, meat, milk and wool processing. A major focus is grazing management and supplementary feeding common to all systems. The course also includes anatomy and physiology of muscles, skin, and the mammary system. Practicals include modeling production systems, assessing product quality, assessing live animals, and field trips.

ANIML SC 2031RW
Companion Animal & Equine Studies

- 4 units - semester 1
- Assumed Knowledge: ANIML SC 3045RW Animal Breeding and Genetics or APP ECOL 1004RW Cell Biology and Genetics and APP ECOL 1003RW Biology of Plants and Animals
- Assessment: practical reports, tests, final exam

The origins of companion animals. The historical role of the horse as a means of transport. The role of dogs, cats and other companion animals in modern Australian society. The role of dogs, cats and horses in other cultures. Breeds and terminology. Handling, husbandry and management of the common types of companion animals.

Level III

ANIML SC 3000RW
Research Project: Animal Science

- 3 units - semester 1 or 2
- In some cases (eg, seasonal constraints) a project may be conducted over semester1 & 2)
- 10 hours practical work/week for 1 semester (or equiv) on project
- Assumed Knowledge: ANIML SC 3017RW Comparative Animal Physiology
- Corequisite: at least one other coursework course offered by Discipline of Animal Science
- Assessment: to be advised

The course comprises a small research project to be undertaken during the 4th year of the program under the supervision of a staff member in the Discipline of Animal Science. Students wishing to undertake a research project should consult with the Head of Discipline before the beginning of the 4th year.

ANIML SC 3015RW
Animal Nutrition and Metabolism

- 3 units - semester 2
- Assumed Knowledge: ENV BIOL 1000A/B Biology I or APP ECOL 1004RW Cell Biology and Genetics and APP ECOL 1003RW Biology of Plants and Animals.
- Restriction: ANIML SC 3010RW Diseases & Nutrition of Livestock
- Assessment: exam, practicals, assignments

This course will discuss the principles and application of animal nutrition across a range of species, focusing mostly, although not exclusively, on livestock species. Students will develop an understanding of the nutritional components of feedstuffs and nutrient requirements, including requirements for energy, protein, carbohydrate, fat, minerals and vitamins. The effects of nutrient supply on growth, reproduction, body composition (eg, fatness), health and welfare and product quality (for agricultural animals) are considered. The hormonal regulation of nutrient partitioning is also discussed, with particular reference to the changing requirements associated with growth, pregnancy and lactation. The role of nutritionists in animal-based enterprises, including the use of least-cost ration formulation is discussed. The course includes lectures and practicals, including hands-on animal trials.

ANIML SC 3016RW
Animal Health and Welfare

- 3 units - semester 2
- Assumed Knowledge: ENV BIOL 1000A/B Biology I; APP ECOL 1004RW Cell Biology and Genetics and APP ECOL 1003RW Biology of Plants and Animals
- Restriction: ANIML SC 3010RW Diseases and Nutrition of Livestock
- Assessment: exam, assignments, case studies

Diseases of farm animals caused by viral, bacterial, fungal and parasitic infections, metabolic disturbances, trace element deficiencies and genetic diseases. Disease symptoms, the scientific basis of diagnosis and treatment. Interactions between nutrition and immune responses. Detection and treatment for deficiencies and toxicities. The metabolic roles of vitamins, minerals, amino acids, carbohydrates and fatty acids. Regulation of feed intake, diet selection and feed preference/palatability.

ANIML SC 3017RW
Comparative Animal Physiology

- 3 units - semester 1
- 6 hours per week
- Assumed Knowledge: ENV BIOL 1001 Biology I, or APP ECOL 1004RW Cell Biology and Genetics and APP ECOL 1003RW Biology of Plants and Animals
- Restriction: ANIML SC 2015RW Physiology of Farm Animals
- Assessment: exam 30%, practicals 40%, assignments 30%

This course deals with animal physiology: the tissues; physiology of the major systems including skeletal and muscular, circulatory, respiratory, digestive, excretory, nervous, endocrine, reproductive, environmental physiology.

ANIML SC 3018RW

Pig Science

- 4 units -summer semester
- Assumed knowledge: ANIML SC 2030RW Livestock Production Science
- Restriction: ANIML SC 3001RW/7023RW Intensive Livestock Management

Pork is the most consumed meat in the world and the second largest agricultural commodity. The management of modern pork production systems is based on detailed information on all aspects of the enterprise, including genetics and breeding, animal nutrition and growth performance, environmental and welfare requirements, health status, reproductive efficiency and product (meat) quality. This course will consider the advantages and disadvantages of various modern pork production systems (including welfare considerations, economic factors, the demand for product consistency, food safety issues, and other consumer expectations). The main factors that are required for the successful management of pigs are discussed, focusing on the management of suckling piglet, the weaner/grower pig and the breeding sow. This course is offered by the National Centre for Pork Industry Training and Education, based at Roseworthy Campus. It includes lectures; site visits to commercial operations, and other practical sessions. It is intended that students completing the course will understand both commercial pork production and the science that underlies it.

ANIML SC 3019RW

Ecology and Management of Vertebrate Pests

- 3 units - summer semester
- 15 days during summer vacation
- Quota will apply
- Assumed Knowledge: 6254 Population Ecology or equivalent
- Assessment: proposal, progress report, final report

This course, presented in conjunction with the Animal and Plant Control Commission, strongly emphasises the field application of vertebrate pest control techniques and provides the theoretical bases for these techniques. Topics covered are the biology and ecology of vertebrate pests; the damage caused by pest animals; the legislative and administrative aspects of vertebrate pest control; district organisations; extension; vertebrate pest control practice.

ANIML SC 3043RW

Biotechnology in the Animal Industries

- 3 units - summer semester (February workshop)
- Assumed Knowledge: ANIML SC 2029WT Genes and Inheritance or equivalent
- Assessment: written assignment, practical report

The application of biotechnology to the animal industries will be examined. Challenges facing the intensive and extensive livestock industries will be explored, discussed and debated in the context of biotechnologies that may be applied in these industries.

The technologies of artificial insemination, in-vitro fertilization, embryo transfer and animal cloning are introduced with some practical exposure. The use of reproductive and genetic technologies to maximise responses to selection are examined for a range of livestock industries. The design of breeding programs will be explained including definition of breeding objectives.

ANIML SC 3045RW

Animal Breeding and Genetics

- 3 units - not offered in 2005
- Assumed Knowledge: ENV BIOL 1000A/B Biology I or APP ECOL 1004RW Cell Biology and Genetics and APP ECOL 1003RW Biology of Plants and Animals, ANIML SC 2030RW Livestock Production Science
- Restriction: PLANT SC 3007WT Introductory Plant and Animal Breeding, PLANT SC 3018WT Advanced Plant and Animal Breeding

The application of scientific methods to animal breeding has led to major improvements in the output, cost and quality of meat, milk and fibre. In addition, animal breeding plans are important for continued improvement of companion animals and management of endangered species. Topics include an introduction to quantitative genetics, maximizing response to selection, crossbreeding, estimation of genetic parameters and breeding values, mode of inheritance, mating systems, fitness and quality traits, animal diversity, development of breeding programs, use of biotechnology in breeding programs including gene mapping and parentage testing. Examples will be drawn from Australia's livestock industries as well as wildlife and companion animals.

Honours

ANIML SC 4000RW

Honours Animal Science (BAg)

- 24 units - full year
- Prerequisite: credit or higher in at least two Level III courses approved by Head of Discipline
- Assessment: research thesis, associated seminars 50% - for remainder of course as deemed appropriate to student's program

This course comprises a substantial research project of the students choosing on a topic acceptable to the Discipline of Animal Science, as well as coursework, essays or other assignments deemed appropriate to each students Honours program.

Intending candidates should consult the Head of Discipline and potential supervisors during the final year of the ordinary degree and be prepared to begin studies in the Discipline at the beginning of February, or other vacations.

ANIML SC 4001RW

Honours Animal Science (B.Ag.Sc.)

- 12 units - full year
- Students must consult Head of Discipline preferably before beginning third year, or fourth year - students cannot enrol in this course and ANIML SC 3000RW Research Project
- 10 hours per week, 30 hours per week/4 weeks during February or other vacations on project work, relevant discussions, reading or preparation of thesis
- Prerequisite: pass in all Level I, II & III courses of .B.Ag.Sc, credit in ANIML SC 3017RW Comparative Animal Physiology & another level III course offered by Discipline of Animal Science, or equiv
- Corequisite: 4 courses offered by Discipline by end of fourth year, or equivalent
- Assessment: to be advised

Candidates will be required to undertake a research project under the supervision of one or more members of the Academic staff and present seminars and a thesis on their research work. Candidates will also participate in tutorials and journal club. The research project can be undertaken in any area of animal science or production supported by the department.

Interested candidates should consult with the Head of Discipline of Animal Science and potential supervisors during the third year of the degree, and be prepared to begin studies at the beginning of February or July (mid year intake).

ANIML SC 4002WT

Honours Animal Science (B.Ag.)

- 24 units - full year
- Prerequisite: credit or higher in at least two Level III courses approved by the Head of Discipline
- Assessment: research thesis, associated seminars 50% - for remainder of course as deemed appropriate to students program

This course comprises a substantial research project of the students choosing on a topic acceptable to the Discipline of Animal Science, as well as coursework, essays or other assignments deemed appropriate to each students Honours program.

Intending candidates should consult the Head of Discipline and potential supervisors during the final year of the ordinary Assessment: research thesis and associated seminars 50% - assessment of the remainder course as deemed appropriate to each student's honours program.

ANIML SC 4003RW

Honours Animal Science (BNRMgt)

- 24 units - full year
- Prerequisite: credit or higher in at least two Level III courses approved by the Head of the Discipline

This course comprises a substantial research project of the students choosing on a topic acceptable to the Discipline of Animal Science, as well as coursework, essays or other assignments deemed appropriate to each student's Honours program.

Intending candidates should consult the Head of Discipline and potential supervisors during the final year of the degree and be prepared to begin studies at the beginning of February, or other vacations.

ANIML SC 4004RW

Honours Animal Science (B.Sc.)

- 24 units - full year
- Prerequisite: credit or higher in at least two Level III courses approved by the Head of Discipline
- Assessment: research thesis, associated seminars 50% - for remainder of course as deemed appropriate to student's program

This course comprises a substantial research project of the students choosing on a topic acceptable to the Discipline of Animal Science, as well as coursework, essays or other assignments deemed appropriate to each student's Honours program.

Intending candidates should consult the Head of Discipline and potential supervisors during the final year of the degree and be prepared to begin studies at the beginning of February, or other vacations.

Anthropology

Level I

ANTH 1101

Inside Out: An Anthropology of University Life

- 3 units - semester 1
- Available for Non-Award study
- 2 lectures, 1 tutorial per week
- Restriction: Ethnographic Research: The Making of Anthropology, Documenting the Everyday: The Making of Anthropology I
- Assessment: class participation and research portfolio

This course introduces anthropology's main research-learning strategies: an ensemble of social research skills and techniques referred to as ethnographic research. We seek to activate your research-learning potential and to facilitate your transition to university by inviting you to develop an 'ethnographer's eye' on academic cultures. We are passionate about ethnographic research and its capacity to provide insight into social life and cultures. We want you to understand why. Classes and readings introduce relevant anthropological questions, skills and approaches. Subject to ethical and practical limits you will undertake a research project focusing on some aspect of university life this semester. A

staged set of assignments helps manage and pace research-learning achievements.

ANTH 1102
Introducing Social Anthropology

- 3 units - semester 2
- Available for Non-Award study
- 2 lectures, 1 tutorial per week
- Restriction: Introduction to Social Anthropology
- Assessment: portfolio of skill development exercises and essay

Anthropology explores what it is to be human. The full range of things that people do, think and feel as social beings are subjects in Social Anthropology. This discipline sets out to gain deep and particular insight into social and cultural diversity in our 'global' world. It provides ways of understanding how, despite the variety of social and cultural systems in the world, people with vastly different outlooks live meaningfully in the world. In a period in which some kinds of human actions are being labelled 'inhuman' we ignore at our peril the importance of understanding more deeply the humanity, politics, social life and cultures of others. Social Anthropology has much to offer this critical contemporary challenge. It responds no less to the challenge of understanding our own culture and social lives. This course introduces how Social Anthropology has developed analytic perspectives which examine the particularities and differences of human societies and cultures. It introduces a range of theoretical tools that Social Anthropologists use to understand people in culture in more than taken for granted ways.

Level II

ANTH 2003
Anthropology of Health and Medicine

- 4 units - semester 1
- 1 lecture, 2 hour seminar per week
- Prerequisite: 6 units Level I Humanities/Social Sciences
- Assessment: oral & written seminar presentations, major essay

This course develops a cross-cultural understanding of health, healing, beliefs about the body, and theories of illness - cultural, social and bio-medical. It critically examines the way in which medical beliefs and practices are socially constructed. Specific topics covered will include: cultural understandings of the mind/body, illness as symbol and metaphor, healers and their roles, institutional responses to disease, and the interaction between different health systems. Through the lens of medical anthropology the course asks students to contemplate their own assumptions about health and illness, and how each of these are 'treated' in a range of social and cultural settings.

ANTH 2004
Anthropology of Ritual, Performance and Art

- 4 units - semester 2
- 1 lecture, 2 hour seminar per week
- Prerequisite: 6 units Level I Humanities/Social Sciences
- Assessment: seminar papers/participation & essays

This course focuses on ritual, cultural performance and art in a broad range of regional settings and religious traditions. It locates anthropological approaches to ritual, performance and art within both indigenous and non-indigenous traditions and will consider the ways in which their particular cultural elements hold an ongoing fascination for spectators, listeners and participants. The celebration of bodies in and through societies will be examined through ritual processes of masking, making and moulding people, objects and performances. Paradigm shifts in the anthropological analyses of ritual, performance and art will be examined through various sites of ritual and artistic production, including contemporary sites of performance such as art galleries, museums and ethnographic films.

ANTH 2012
Media and Culture

- 4 units - semester 1
- 1 lecture, 2 hour workshop per week
- Prerequisite: 6 units Level I Humanities/Social Sciences
- Assessment: workshop participation/papers and essays

This course analyses the complex processes through which media are socially constructed, both as part of everyday practice and in academic studies of media. The course takes the social and cultural sites, the places in which these acts of construction are located, as its main object of study, and its concern is less with the semiotic content of media genres than with analysing the institutional arrangements and social contexts within which meanings are made. The first part of the course looks at the consumption of media through the concepts of audiences, individuality, family and domesticity, the nation and globalisation. The second part looks at the production of media by working back through these concepts. The course explores how anthropology's theoretical and methodological perspective can inform this study. It critically examines how the discipline of media studies has analysed commercial and public production of different media forms. The course provides students with an appreciation of media studies, whilst also showing how anthropology's comparative sociological perspective and the use of holistic ethnographic methodologies can contribute to both 'public' and 'academic' understanding of media.

ANTH 2013

Media Analysis

- 4 units - semester 2
- 1 lecture, 2 hour workshop per week
- Prerequisite: 6 units Level I Humanities/Social Sciences
- Assessment: workshop participation/papers and essays

Studies of media make an increasingly significant contribution to the development of anthropology because modern communication technologies and media are used in almost all societies in the contemporary world. Another, more profound reason for the importance of studying media is that the creation of mediated cultural forms challenges anthropologists to reconsider many of the fundamental concepts and theories that have constituted the discipline. This course looks at how the development of media has both affected the users and those who have come (often literally in the case of anthropologists) to understand this use. Although the essential readings for this course relate directly to the anthropological study of media, the course's organisation around thematic areas that are common to many anthropologists' concerns (such as distinctions between space and time, nature and culture, self and other, body and spirit, and life and death) encourages students to ground their studies in this course in the knowledge they have developed in other courses. The content of both the lectures and the seminars will reinforce this interconnection. The aim is to build a reflexive understanding of how media practices and the special concerns of anthropology can be combined, both theoretically and methodologically.

ANTH 2016

The Sexual Body

- 4 units - semester 1
- 1 lecture, 2 hour seminar per week
- Prerequisite: 6 units level I Humanities/Social Sciences
- Assessment: seminar presentation & participation, essays; total approx.6 000 words

How is sexuality understood in our own and other cultures? Using historical and cross-cultural frameworks, this course will investigate various theories of sexuality in order to locate particular ideological, political, economic, global and other influences on conceptualisations of human sexuality. In particular, we will examine ethnographic research that questions the 'natural' qualities of sexual identities, ideas and practices. In order to do this, we will also need to focus on what are often labelled sexual abnormalities in our own and other cultures, such as third genders and homosexual practices. The course will focus on taken for granted aspects of sexuality, especially those assumptions about gendered roles in sexual practices and ideas, the ways in which these may become naturalised, and how anthropological frames provide ways to critically explore the corporeal and cultural bases of ideas and practices of sexuality. Finally, the course will explore the various ethical and practical problems that anthropologists of sexuality have encountered in specific ethnographic research, and the ways in which they have been able to shed light on more general problems in ethnographic research pertaining to power, reflexivity, and participant observation methodologies and theories.

ANTH 2017

Culture and Society: Contemporary Debates

- 4 units - semester 2
- 1 lecture, 2 hour seminar per week
- Prerequisite: 6 units Level I Humanities/Social Sciences
- Assessment: seminar participation/papers & essays

Are we agents of our own destiny or cyphers of 'the system', destined to act according to social structures and cultural norms? This tension between agency and structure is one of the abiding issues that confront anthropologists and social scientists in their explanations of social life: what role or emphasis should be given to the consciousness and intentions of the individual in understanding social life? How much precedence should be given to the structures that we attribute to society in shaping our thoughts and actions. In this course we will be looking at the works of Claude Lévi-Strauss, Michel Foucault, Pierre Bourdieu and major phenomenologists. All have exercised, and continue to exercise a profound influence on contemporary social anthropology; and each has taken up this debate between structure and agency. Our aims for this course are to understand these different approaches to the issue of structure and agency in social life and to examine them critically through the way they have been deployed in ethnographic studies by anthropologists.

ANTH 2021

Poverty and Development: Conditions and Experience

- 4 units - semester 1
- 1 lecture, 2 hour seminar per week
- Prerequisite: 6 units Level I Humanities/Social Sciences
- Restriction: Applied Anthropology: Strategies and Partnerships
- Assessment: seminar participation/papers, major essay

The aim of the course is to give students an understanding of applied anthropology and its application in a range of development settings. The course will critically examine the condition of poverty and its diverse experiences and the theoretical underpinnings of development intervention and selected applied methodologies aimed at participation and empowerment promoted by bilateral government assistance, multilateral funding agencies and non-government organisations. The course is divided into two sections: The first section considers some of the main concepts and theories of underdevelopment, development, and post-development; the second section looks at some practical tools and methodologies currently used in social development and poverty-reduction programs.

Students can focus on specialised topics for the essay such as health, gender and development, environment, agriculture and rural development, governance, and many other related development themes.

ANTH 2022

Popular Culture: Passion, Style, Tribe

- 4 units - semester 2
- 1 lecture, 2 hour workshop per week
- Prerequisite: 6 units Level I Humanities/Social Sciences
- Assessment: workshop papers/participation, essays

Popular culture today constitutes a vital arena in which people derive great pleasure and make meaning in their lives. Through the myriad forms of popular culture in everyday life people define, explore and experiment with their identity and the identity of their society. Through music, shopping, soap operas, fashion and fandom people participate in contrasting strategies of living, building relations with others and society. The course investigates how theorists from a number of distinct academic disciplines have approached the issue of popular culture and mass consumption, and highlights what anthropology offers in terms of providing context-derived insights into distinct and discursive arenas of popular consumption. Though ostensibly concerned with popular consumption practices in the industrial world, examination of popular cultural commodities that cross cultural boundaries or which are generated in the non-industrial world for local consumption will also be considered.

ANTH 2023

Mind and Person: Anthropological Perspectives

- 4 units - semester 2
- 1 lecture, 2 hour workshop per week
- Prerequisite: 6 units Level I Humanities/Social Sciences
- Assessment: seminar participation/presentation, major essay

Issues of what it is to be a thinking, feeling, knowing person are central to anthropology. Anthropology has, throughout its history, provided a unique and powerful focus on the mind, body and person in their total social and cultural context. This course explores such key human attributes as perception, cognition, emotion, personality, development, socialisation and enculturation. It aims to create linkages between different disciplinary perspectives on these attributes, while highlighting the distinctive methodological and theoretical tasks of anthropological explanation. The course explores the mind as a locus of habitual cultural being and the mapping of biological, social and political meanings onto individual bodies. The course culminates in an exploration of anthropological perspectives on what it is to be a person, using ethnographic and cross-cultural comparisons to reflect upon individuality, agency and power.

ANTH 2024

Anthropology of Conflict and Crisis

- 4 units - semester 1
- 1 lecture, 2 hour workshop per week
- Prerequisite: 6 units Level I Humanities/Social Sciences
- Assessment: workshop participation & papers

The course addresses the issues of conflict and complex political and ecological emergencies from a comparative anthropological perspective using primary ethnographic examples from countries such as Afghanistan, Sierra Leone, Zimbabwe, Guatemala and Northern Ireland. It introduces students to some of the methodological issues surrounding the undertaking of fieldwork in dangerous locations and addresses a number of core themes that include: food and famine; violence and evil; terror, fear and suffering; war and visual culture, media culture and spiritualism; and conflict, global governance and the global economy.

ANTH 2025

Southeast Asian Buddhist Social Worlds

- 4 units - semester 2
- 1 lecture, 2 hour workshop per week
- Prerequisite: 6 units Level I Humanities/Social Sciences
- Assessment: workshop participation/papers & essays

The course examines the association between renunciation and power, religion and politics in the Theravada Buddhist societies of Southeast Asia. It considers the way in which the worldly dimensions of religion are grounded in the day-to-day concerns of the societies in which it is practiced. The course focuses on a variety of examples in which the contemporary world-view of the people from Southeast Asia, and the way in which their world-view is expressed, is shaped through the language of religion and, in turn, influences religiosity. Specifically we will look at the historical sources of the Theravada Buddhist tradition and the ways in which it was transformed into a popular religion in these societies and the relationship of the Theravada tradition to the political, economic and social lives of peoples in these societies today.

We will discuss current anthropological research in Theravada Buddhist countries: Buddhist activists and new social movements, political-ecology and Buddhism, reclusive monasticism, civic religion, modernity and Buddhism in the post-metropolis.

Level III

ANTH 3003
Anthropology of Health and Medicine

- 6 units - semester 1
- 1 lecture, 2 hour seminar per week
- Prerequisite: 8 units Level II Humanities/Social Sciences
- Assessment: oral and written seminar presentations, major essay

This course develops a cross-cultural understanding of health, healing, beliefs about the body, and theories of illness - cultural, social and bio-medical. It critically examines the way in which medical beliefs and practices are socially constructed. Specific topics covered will include: cultural understandings of the mind/body, illness as symbol and metaphor, healers and their roles, institutional responses to disease, and the interaction between different health systems. Through the lens of medical anthropology the course asks students to contemplate their own assumptions about health and illness, and how each of these are 'treated' in a range of social and cultural settings.

ANTH 3004
Anthropology of Ritual, Performance and Art

- 6 units - semester 2
- 1 lecture, 2 hour seminar per week
- Prerequisite: 8 units Level II Humanities/Social Sciences
- Assessment: seminar papers/participation, essays

This course focuses on ritual, cultural performance and art in a broad range of regional settings and religious traditions. It locates anthropological approaches to ritual, performance and art within both indigenous and non-indigenous traditions and will consider the ways in which their particular cultural elements hold an ongoing fascination for spectators, listeners and participants. The celebration of bodies in and through societies will be examined through ritual processes of masking, making and moulding people, objects and performances. Paradigm shifts in the anthropological analyses of ritual, performance and art will be examined through various sites of ritual and artistic production, including contemporary sites of performance such as art galleries, museums and ethnographic films.

ANTH 3012
Media and Culture

- 6 units - semester 1
- 1 lecture, 2 hour workshop per week
- Prerequisite: 8 units Level II Humanities/Social Sciences
- Assessment: workshop participation/papers, essays

This course analyses the complex processes through which media are socially constructed, both as part of everyday practice and in academic studies of media. The course takes the social and cultural sites, the places in which these acts of construction are located, as its main object of study, and its concern is less with the semiotic content of media genres than with analysing the institutional arrangements and social contexts within which meanings are made. The first part of the course looks at the consumption of media through the concepts of audiences, individuality, family and domesticity, the nation and globalisation. The second part looks at the production of media by working back through these concepts. The course explores how anthropology's theoretical and methodological perspective can inform this study. It critically examines how the discipline of media studies has analysed commercial and public production of different media forms. The course provides students with an appreciation of media studies, whilst also showing how anthropology's comparative sociological perspective and the use of holistic ethnographic methodologies can contribute to both 'public' and 'academic' understanding of media.

ANTH 3013
Media Analysis

- 6 units - semester 2
- 1 lecture, 2 hour workshop per week
- Prerequisite: 8 units Level II Humanities/Social Sciences
- Assessment: workshop participation/papers, essays

Studies of media make an increasingly significant contribution to the development of anthropology because modern communication technologies and media are used in almost all societies in the contemporary world. Another, more profound reason for the importance of studying media is that the creation of mediated cultural forms challenges anthropologists to reconsider many of the fundamental concepts and theories that have constituted the discipline. This course looks at how the development of media has both affected the users and those who have come (often literally in the case of anthropologists) to understand this use. Although the essential readings for this course relate directly to the anthropological study of media, the course's organisation around thematic areas that are common to many anthropologists' concerns (such as distinctions between space and time, nature and culture, self and other, body and spirit, and life and death) encourages students to ground their studies in this course in the knowledge they have developed in other courses. The content of both the lectures and the seminars will reinforce this interconnection. The aim is to build a reflexive understanding of how media practices and the special concerns of anthropology can be combined, both theoretically and methodologically.

ANTH 3016

The Sexual Body

- 6 units - semester 1
- 1 lecture, 2 hour seminar per week
- Prerequisite: 8 units level I Humanities/Social Sciences
- Assessment: seminar presentation & participation, essays; total approx. 9 000 words

How is sexuality understood in our own and other cultures? Using historical and cross-cultural frameworks, this course will investigate various theories of sexuality in order to locate particular ideological, political, economic, global and other influences on conceptualisations of human sexuality. In particular, we will examine ethnographic research that questions the 'natural' qualities of sexual identities, ideas and practices. In order to do this, we will also need to focus on what are often labelled sexual abnormalities in our own and other cultures, such as third genders and homosexual practices. The course will focus on taken for granted aspects of sexuality, especially those assumptions about gendered roles in sexual practices and ideas, the ways in which these may become naturalised, and how anthropological frames provide ways to critically explore the corporeal and cultural bases of ideas and practices of sexuality. Finally, the course will explore the various ethical and practical problems that anthropologists of sexuality have encountered in specific ethnographic research, and the ways in which they have been able to shed light on more general problems in ethnographic research pertaining to power, reflexivity, and participant observation methodologies and theories.

ANTH 3017

Culture and Society: Contemporary Debates

- 6 units - semester 2
- 1 lecture, 2 hour seminar per week
- Prerequisite: 8 units Level II Humanities/Social Sciences
- Assessment: seminar participation/presentation, major essay

Are we agents of our own destiny or cyphers of 'the system', destined to act according to social structures and cultural norms? This tension between agency and structure is one of the abiding issues that confront anthropologists and social scientists in their explanations of social life: what role or emphasis should be given to the consciousness and intentions of the individual in understanding social life? How much precedence should be given to the structures that we attribute to society in shaping our thoughts and actions. In this course we will be looking at the works of Claude Lévi-Strauss, Michel Foucault, Pierre Bourdieu and major phenomenologists. All have exercised, and continue to exercise a profound influence on contemporary social anthropology; and each has taken up this debate between structure and agency. Our aims for this course are to understand these different approaches to the issue of structure and agency in social life and to examine them critically through the way they have been deployed in ethnographic studies by anthropologists.

ANTH 3021

Poverty and Development: Conditions and Experience

- 6 units - semester 1
- 1 lecture, 2 hour seminar per week
- Prerequisite: 8 units Level II Humanities/Social Sciences
- Restriction: Applied Anthropology: Strategies and Partnerships
- Assessment: seminar papers/participation and major essay

The aim of the course is to give students an understanding of applied anthropology and its application in a range of development settings. The course will critically examine the condition of poverty and its diverse experiences and the theoretical underpinnings of development intervention and selected applied methodologies aimed at participation and empowerment promoted by bilateral government assistance, multilateral funding agencies and non-government organisations. The course is divided into two sections: The first section considers some of the main concepts and theories of underdevelopment, development, and post-development; the second section looks at some practical tools and methodologies currently used in social development and poverty-reduction programs.

Students can focus on specialised topics for the essay such as health, gender and development, environment, agriculture and rural development, governance, and many other related development themes.

ANTH 3022

Popular Culture: Passion, Style, Tribe

- 6 units - semester 2
- 1 lecture, 2 hour workshop per week
- Prerequisite: 8 units Level II Humanities/Social Sciences
- Assessment: workshop papers/participation, essay

Popular culture today constitutes a vital arena in which people derive great pleasure and make meaning in their lives. Through the myriad forms of popular culture in everyday life people define, explore and experiment with their identity and the identity of their society. Through music, shopping, soap operas, fashion and fandom people participate in contrasting strategies of living, building relations with others and society. The course investigates how theorists from a number of distinct academic disciplines have approached the issue of popular culture and mass consumption, and highlights what anthropology offers in terms of providing context-derived insights into distinct and discursive arenas of popular consumption. Though ostensibly concerned with popular consumption practices in the industrial world, examination of popular cultural commodities that cross cultural boundaries or which are generated in the non-industrial world for local consumption will also be considered.

ANTH 3023

Mind and Person: Anthropological Perspectives

- 6 units - semester 2
- 1 lecture, 2 hour workshop per week
- Prerequisite: 8 units Level II Humanities/Social Sciences
- Assessment: seminar participation/presentation, major essay

Issues of what it is to be a thinking, feeling, knowing person are central to anthropology. Anthropology has, throughout its history, provided a unique and powerful focus on the mind, body and person in their total social and cultural context. This course explores such key human attributes as perception, cognition, emotion, personality, development, socialisation and enculturation. It aims to create linkages between different disciplinary perspectives on these attributes, while highlighting the distinctive methodological and theoretical tasks of anthropological explanation. The course explores the mind as a locus of habitual cultural being and the mapping of biological, social and political meanings onto individual bodies. The course culminates in an exploration of anthropological perspectives on what it is to be a person, using ethnographic and cross-cultural comparisons to reflect upon individuality, agency and power.

ANTH 3024

Anthropology of Conflict and Crisis

- 6 units - semester 1
- 1 lecture, 2 hour workshop per week
- Prerequisite: 8 units Level II Humanities/Social Sciences
- Assessment: workshop participation and papers

The course addresses the issues of conflict and complex political and ecological emergencies from a comparative anthropological perspective using primary ethnographic examples from countries such as Afghanistan, Sierra Leone, Zimbabwe, Guatemala and Northern Ireland. It introduces students to some of the methodological issues surrounding the undertaking of fieldwork in dangerous locations and addresses a number of core themes that include: food and famine; violence and evil; terror, fear and suffering; war and visual culture, media culture and spiritualism; and conflict, global governance and the global economy.

ANTH 3025

Southeast Asian Buddhist Social Worlds

- 6 units - semester 2
- 1 lecture, 2 hour workshop per week
- Prerequisite: 8 units Level II Humanities/Social Sciences
- Assessment: workshop papers, essays

The course examines the association between renunciation and power, religion and politics in the Theravada Buddhist societies of Southeast Asia. It considers the way in which the worldly dimensions of religion are grounded in the day-to-day concerns of the societies in which it is practiced. The course focuses on a variety of examples in which the contemporary world-view of the people from Southeast Asia, and the way in which their world-view is expressed, is shaped through the language of religion and, in turn, influences religiosity. Specifically we will look at the historical sources of the Theravada Buddhist tradition and the ways in which it was transformed into a popular religion in these societies and the relationship of the Theravada tradition to the political, economic and social lives of peoples in these societies today.

We will discuss current anthropological research in Theravada Buddhist countries: Buddhist activists and new social movements, political-ecology and Buddhism, reclusive monasticism, civic religion, modernity and Buddhism in the post-metropolis.

Honours

ANTH 4401

Honours Anthropology

- 24 units - full year
- Prerequisite: UG degree & distinction average in courses contributing to major in Anthropology or equivalent approved by Convenor of Discipline - candidates without prerequisite may apply to Honours Coordinator
- Assessment: coursework (2 topics), 15 000-20 000 word thesis

Students wishing to take Honours Anthropology should consult the Honours Coordinator prior to commencing level III to ensure that appropriate course choices are made in preparation for Honours.

Honours Anthropology is a full year program, involving weekly seminars, essays and a final dissertation. In some circumstances Honours Anthropology can be studied part-time over two years or can be combined with Honours in another discipline.

Applied Ecology

Level I

APP ECOL 1002RW

Field Studies IA

- 3 units - semester 1
- 1 full day (6 hours) per week
- Assessment: reports, portfolios, seminars, field aptitude

This course covers a range of techniques for recording and analysing environmental data: animal capture and measurement; fauna handling and maintenance; radio-telemetry; plant propagation techniques; electronic data management and analysis; aquatic sampling.

APP ECOL 1003RW
Biology of Plants and Animals

- 3 units - semester 2
- 2 lectures, 1 tutorial, 3 hours practical work per week
- Assumed Knowledge: 4821 Cell Biology and Genetics, 8057 Biology INR or equivalent
- Restriction: 8280 Biology of Organisms, 3174 Biology 1
- Assessment: exam 50%, tutorial exercises, practical reports 50%

This course is an introduction to the diversity of form and function in higher plants and animals. Examples of both native and agricultural species are used to illustrate the structure and function of flowering plants and vertebrate animals, their reproduction, growth, nutrition, control systems, and interactions with the environment.

APP ECOL 1004RW
Cell Biology and Genetics

- 3 units - semester 1
- 2 lectures, tutorial, 3 hours practical work per week.
- Restriction: 9520 Biology A, 8057 Biology INR, 3174 Biology 1
- Assessment: practical reports, tutorial exercises 30%, exam 70%

The course is an introduction to cell biology and genetics and also provides an introduction to further studies in agricultural production and environmental management. It does not assume previous biological knowledge. Topics include: structure of bacteria, plant and animal cells and an introduction to and role of the main cellular components; role of membranes in the regulation of the cell environment; respiration and energy production; fermentation; photosynthetic processes and synthesis of sugars; cell interaction and cell division, chromosome structure and inheritance; location and structure of genes; genotype and phenotype; DNA, its replication, transcription and translation; protein synthesis; mutation; introduction to plant and animal breeding and genetic engineering, role in biodiversity and conservation.

APP ECOL 1006RW
Plant and Animal Diversity

- 3 units - semester 2
- 3 lectures and 3 hours practical work per week
- Assumed Knowledge: APP ECOL 1003RW Biology of Plants and Animals
- Assessment: theory 50%, practical work 50%

The course deals with the diversity of Australian flora and fauna, including their origins and history. There is a focus on higher plants and animals (vertebrates). The practical component of the course provides the skills needed for accurate identification of flowering plants and vertebrate fauna.

Level II

APP ECOL 2015RW
Field Studies IIA

APP ECOL 2016RW
Field Studies IIB

- 3 units - not offered in 2005
- Assumed Knowledge: APP ECOL 1002RW Field Studies IA
- Restriction: APP ECOL 2016RW Field Studies IIA
- Assessment: progress report, oral presentation, group project report

Students work on group projects that involve environmental survey work. Each project will be supervised by a member of academic staff. Students will have flexibility in the project they choose. Possible topics include plant and animal surveys, environmental rehabilitation, and water monitoring. A link with an industry or a community group is encouraged.

Level III

APP ECOL 3000WT
IPM Internship

- 3 units - 13 weeks by arrangement
- 6 hours per week
- Prerequisite: APP ECOL 3008WT Integrated Pest Management A

Candidates for the major in Integrated Pest Management must complete an internship of at least thirteen weeks in one or more approved workplaces where management of pests is a primary focus of the employer. A minimum of five weeks must be spent with any one sponsor. Students should consult theInternship Coordinator (Integrated Pest Management major) one semester in advance of the intended internship period for allocation of suitable placements, which may be taken up at any time including vacation periods. The internship will normally include elements of the following: evaluation of pest biology and ecology in the field, sampling and decision-making in the management of pest populations, record keeping, client-adviser interactions such as the delivery of information and advice, and the economics of pest management enterprises. A diary of activities must be kept at each placement, and a written report on the activities, history, status and future of the property, business or enterprise presented at the end of the internship.

APP ECOL 3003RW
Individual Studies B

- 3 units - semester 2
- Individual/small group contact with supervisor each week
- Prerequisite: credit in at least one relevant Level II course; approval by senior program adviser

- Restriction: only one Individual Studies course can be credited towards Bachelor of Natural Resource Management
- Assessment: final project report

This course is to enable students as individuals or small teams to undertake a laboratory or field based research project, a literature review, and/or essays relevant to natural resource management. The objectives and nature of the program will be determined in consultation with the senior program adviser as course coordinator.

APP ECOL 3005WT
Plant Disease and the Environment

- 3 units - semester 2
- 2 lectures, four hour practical per week
- Assumed Knowledge: APP ECOL 2003WT General Microbiology II and APP ECOL 3011WT Pathogen-Plant Interactions
- Assessment: final exam, practical books, assignments

An environmentally responsible approach to the control of plant disease, based on knowledge of the factors which influence disease development and the survival and dispersal of pathogens. Emphasis will be placed on the pathogen - host plant - vector - environment interaction, the nature of disease epidemics, biological control including cultural practices, genetic and induced host plant resistance and the use of antagonistic microorganisms.

APP ECOL 3008WT
Integrated Pest Management A

- 3 units - semester 1
- 2 lectures; four/five hour practicals/computer exercises per week
- Assessment: exam 50%, practical exercises, assignments 50%

This course provides an introduction to the theory and practice of pest management. Topics considered are: the development, regulation and use of pesticides; strategies and tactics for managing pests (biological, cultural, genetic and chemical control); integrated pest management; economics of pest management; the diagnosis of disease; strategies and tactics for managing disease outbreaks; integrated weed management.

APP ECOL 3011WT
Pathogen-Plant Interactions

- 3 units - semester 1
- 2 lectures, four hour practical per week
- Prerequisite: APP ECOL 2003WT General Microbiology II
- Assessment: practical reports 25%, written exam 75%

This course focuses on the biology of plant pathogenic fungi, nematodes, bacteria and viruses with emphasis on interactions with hosts, the nature of disease and diagnosis. It provides biological information required for devising disease control strategies and complements APP ECOL 3005WT Plant Disease and the Environment. Physiological, biochemical, genetic and molecular properties of pathogens will be discussed. Aspects of plant pathogen systems will include host physiology, disease development, resistance and molecular plant-microbe interactions.

APP ECOL 3016RW
Individual Studies A

- 3 units - semester 1
- Individual/small group contact with supervisor each week
- Prerequisite: credit in at least one relevant Level II course, approval by senior program adviser
- Restriction: only one Individual Studies course can be credited towards Bachelor of Natural Resource Management
- Assessment: final project report

This course is to enable students as individuals or small teams to undertake a laboratory or field based research project, a literature review, and/or essays relevant to natural resource management. The objectives and nature of the program will be determined through consultation with the Senior Program Adviser as Course Coordinator.

APP ECOL 3017WT
Communication in the Agri-Food Industry

- 3 units - semester 2
- 6 hours per week
- Assumed Knowledge: completion of Level I & II of B.Ag.Sc
- Assessment: written & oral presentations, poster preparation, class participation

The course provides an opportunity for students to integrate and extend their knowledge of the workplace, to incorporate scientific information effectively into practice and policy, and to develop communication skills allowing participants to enter and to play a role in local, national and international Agri-food developments.

It aims to provide instruction in information transfer techniques and principles involved in oral, written, and electronic communication of scientific knowledge; to give an opportunity to develop ability in public speaking, by interacting in a group and presenting views in public debate; to develop skills in researching, critically assessing, preparing and presenting information on selected topics relevant to the Agri-food industry; to introduce students to the use of electronic communication technologies; to expand understanding of problems and constraints to be faced in future employment; to identify career opportunities open to graduates, and to assist students in applying for positions and presentations to potential employers; to provide an insight into the approaches of decision makers in a variety of areas through appropriate guest lectures; to acknowledge the maturity of and to enhance the self-confidence of graduates.

APP ECOL 3019WT

Fungal Biology

- 3 units - semester 2
- Even years only
- 2 lectures, 4 hours of practical/tutorial per week
- Assumed Knowledge: APP ECOL 2003WT General Microbiology II (pre 1992: 5677 Agricultural Microbiology and Zoology)
- Assessment: exam, fungal collection & practical books examined

Aspects of the biology of fungi, including classification, biodiversity, ecology, physiology, genetics and molecular biology, will be covered. Emphasis will be placed on fungi that are pathogens of economically important crops. Fungi of importance in natural ecosystems, industry, biotechnology and medicine will also be considered.

APP ECOL 3022AEX

Integrated Weed Management Part 1

- 1.5 units - semester 1

APP ECOL 3022BEX

Integrated Weed Management Part 2

- 1.5 units - semester 2
- 2 day residency for practicals in mid-semester break -modules at students pace
- Prerequisite: APP ECOL 3022AEX/7014BEX Integrated Weed Management Part 1 before proceeding to Part 2
- Assessment: five assignments during the year

The impact of weeds on agricultural and natural ecosystems. Important characteristics of weed biology. Ecology of weeds. Methods of sampling and monitoring weed infestations. Biological, cultural and chemical methods for weed management. Integrating management techniques for weeds in a range of ecosystems, including: cropping enterprises, perennial pastures, national parks and recreation areas and horticultural systems.

APP ECOL 3028WT

Insect Ecology

- 3 units - semester 2
- Assumed Knowledge: ANIML SC 2005WT Agricultural Zoology II or APP ECOL 3018WT Agricultural Zoology (Invertebrates) or ENV BIOL 2900B Zoology II (Part 2) or APP ECOL 2013RW Microorganisms and Invertebrates
- Assessment: reports and assignments 50%, exam 50%

This course considers the ecology of insects from both theoretical and practical perspectives, with special emphasis placed on the central role of evolution in shaping interactions between insects and their environment. Topics include insect plant interactions, insects and climate, behavioral ecology, insect population dynamics and natural enemies. Opportunities to apply an understanding of ecology to the management of insect pests are explored, including biological control of insects using natural enemies.

Honours

APP ECOL 4000RW

Honours Plant and Pest Science (B.N.R.Mgt.)

- 24 units - full year
- Prerequisite: credit or better in at least two Level III courses or by permission of the Head of Discipline
- Assessment: thesis, seminar, coursework

Candidates are expected to undertake a substantial research project on a topic relevant to the Discipline. They will have one or two supervisors, and will present a research proposal, a thesis, a seminar, and some coursework. Coursework will take the form of essays and/or approved courses.

Intending candidates should consult the Head of Discipline and potential supervisors during the final year of the degree and be prepared to begin studies at the beginning of February or end of July.

APP ECOL 4003WT

Honours Plant and Pest Science (B.Ag.Sc.)

- 12 units - full year
- Prerequisite: credit or higher in at least two Level III courses approved by the Head of Discipline
- Requirement: research project of student's choosing (on a topic acceptable to the Discipline) normally undertaken at the same time as coursework (4 Level III courses relevant to student's project and approved by the Head of Discipline - 12 units)
- Assessment: seminars and thesis on research project 60%, average of specified Level III courses

Candidates will be required to undertake a research project under one or more members of academic staff in the Discipline or jointly with a staff member from another department/discipline as approved by the Head of Discipline. Intending candidates should consult the Head of Discipline and potential supervisors during third year and be prepared to begin studies the beginning of February or July (mid year intake).

APP ECOL 4006WT

Hons IPM (B.Ag.Sc.)

- 12 units - full year
- contact hours equivalent to four Level III courses
- Prerequisite: pass in all Level I, II and chosen Level III course of B.Ag.Sc; credit in at least two Level III courses chosen from list of courses required for Integrated Pest Management degree

- Corequisite: two additional Level III courses - relevant to proposed research project, and approved by Head of Discipline - from those required for IPM degree (at discretion of Head of Discipline, a course taught by another discipline may be accepted)
- Assessment: to be advised

Students wishing to undertake honours should consult the Head of Discipline as soon as their intention is known, but no later than the end of semester 2 in the third year of the program. Each candidate will be assigned a research project in an area of entomology, plant pathology, weed science or vertebrate pest management, which will be carried out under the supervision of one or more members of academic staff. Results will be presented in a dissertation and seminar at the end of the course. Candidates will begin studies on 1 February.

Architecture

Level IV

ARCH 4000
Architecture Studio IC

- 6 units - semester 1
- Up to 18 hours lectures/tutorials/workshops; contact hours vary from week to week
- Eligibility: B.Arch., B.Arch./B.L.Arch. students only
- Restriction: LARCH 4010 Landscape Architecture Studio IA
- Assessment: students must pass two equally weighted components; assignments may include written, verbal, & graphical (2 & 3 dimensional) communication.

A project-based learning program integrating design and the technology and practices of construction, structures, materials and building services, within a theoretical and historical context; taking account of human (physiological, social and cultural) and ecological factors.

Architecture Studio IC will typically be focused on the design of a building alteration and refurbishment, requiring facilities planning, the survey and measuring of an existing building, and the preparation of measured drawings and dilapidation reports. It will also address issues arising in building conservation and the insertion of new buildings into heritage areas. There will be emphasis on structural assessment, materials characteristics and selection, plumbing and electrical services, and lighting.

Lectures given in the course will complement the design process, addressing the topics outlined above.

ARCH 4003
Architecture Studio ID

- 6 units - semester 2
- Up to18 hours lectures/tutorials/ workshops; contact hours vary from week to week
- Eligibility: B.Arch. students only
- Restriction: ARCH 4026 Architecture/Landscape Architecture Studio IE
- Assessment: assignments & projects - may include written, verbal & graphic (2 & 3 dimensional) communication.

A project-based learning program integrating architectural and landscape design and digital media technologies that will typically address a medium to large sized design and planning topic in a rural setting possessing particular cultural constraints, relationships and landscape nuances different from that commonly experienced in the South Australian environment. The course will explore the possibilities of digital media in designing and articulating designs, large to regional design issues, non-Mediterranean design issues, and site planning questions. Theories of multi-media design expression, architectural and landscape design, on-site infrastructure will be woven with topics addressing human (physiological, social and cultural) and ecological (faunal, floral, soil, water, etc) factors.

ARCH 4016
Architecture Studio 1A

- 6 units - semester 2
- Up to18 hours lectures/tutorials/ workshops; contact hours vary from week to week
- Eligibility: B.Arch, students only
- Restriction: ARCH 4027 Architecture/Landscape Architecture Studio IF
- Assessment: assignments & projects - may include written, verbal & graphic (2 & 3 dimensional) communication.

A project-based learning program integrating architectural and landscape design and digital media technologies that will typically address a small to medium sized design and planning topic in an urban setting possessing particular cultural constraints, relationships and landscape nuances. The course will place emphasis upon either urban design or ecological design or urban ecology questions and theories. The course will explore the role and contribution of design in our cultural environments, and the nexus between culture and nature in an urban context.

ARCH 4025

Architecture Studio IB

- 6 units - semester 1
- Up to18 hours lectures/tutorials/ workshops; contact hours vary from week to week
- Eligibility: B.Arch, B.Arch/B.L.Arch. students only
- Restriction: ARCH 5026 Architecture/Landscape Architecture IIF

Assessment: students must achieve at least 50% in two equally weighted components - assignments may include written, verbal, & graphical (2 & 3 dimensional) communication

A project-based learning program integrating design and the technology and practices of construction, structures, materials and building services, within a theoretical and historical context; taking account of human (physiological, social and cultural) and ecological factors. The course will typically be focussed on the design of a dwelling (or small group of dwellings) on a real site, with a particular owner-occupier as client. Students will be required to develop a brief from the client's instructions. Theory and practice regarding a range of aspects of low-rise domestic construction (including site preparation, footings, light timber framing and masonry construction) will be applied. Students will be expected to explore a design 'parti' and its sources and precedents, to explain design intentions and communicate the architectural intentions of the building design, and to demonstrate that they understand its potential construction and performance. There will be an emphasis on the lighting and thermal performance of the building and associated energy use, in the context of the client's requirements.

ARCH 4026

Architecture/Landscape Architecture Studio IE

- 6 units - semester 2
- Up to18 hours lectures/tutorials/workshops/field trip; contact hours vary week to week
- Eligibility:B.Arch/B.L.Arch.double degree students only
- Assumed Knowledge: design at undergraduate degree level
- Restriction: ARCH 4003 Architecture Studio ID or LARCH 4002 Landscape Architecture Studio ID
- Assessment: assignments & projects - may include written, verbal & graphic (2 & 3 dimensional) communication

A project-based learning program integrating architectural and landscape design and digital media technologies that will typically address a medium to large sized design and planning topic in a rural setting possessing particular cultural constraints, relationships and landscape nuances different from that commonly experienced in the South Australian environment. The course will explore the possibilities of digital media in designing and articulating designs, large to regional design issues, non-Mediterranean design issues, and site planning questions. Theories of multi-media design expression, architectural and landscape design, on-site infrastructure will be woven with topics addressing human (physiological, social and cultural) and ecological (faunal, floral, soil, water, etc) factors.

ARCH 4027

Architecture/Landscape Architecture Studio IF

- 6 units - semester 2
- Up to18 hours lectures/tutorials/workshops/field trip; contact hours vary week to week
- Eligibility: B.Arch/B.L.Arch. double degree students only
- Assumed Knowledge: design at undergraduate level
- Restriction: ARCH 4016 Architecture Studio IA or LARCH 4017 Landscape Architecture Studio IC
- Assessment: assignments & projects - may include written, verbal, & graphic (2 & 3 dimensional) communication

A project-based learning program integrating architectural and landscape design and digital media technologies that will typically address a small to medium sized design and planning topic in an urban setting possessing particular cultural constraints, relationships and landscape nuances. The course will place emphasis upon either urban design or ecological design or urban ecology questions and theories. The course will explore the role and contribution of design in our cultural environments, and the nexus between culture and nature in an urban context.

Level V

ARCH 5002

Advanced Studies in Architecture II

- 3 units - semester 1
- 2 hour tutorial/seminar per week
- Eligibility: approved Honours B.Arch. students only
- Students wishing to take ARCH 5002 on a part- time basis should consult School Executive Officer
- Prerequisite: admission will be selective, based on prior results. Selection guidelines available in the School of Architecture, Landscape Architecture and Urban Design
- Assessment: final report

Students will be required to undertake supervised research into a particular topic, leading to the presentation of a seminar paper and submission of a final essay or report of the order of 4000 words.

Topics offered for this course will depend upon staff availability. Examples of topics which can be expected from time to time are: Architectural History, Architectural Theories in Modern Architecture, Australian Architectural History, Building Materials and Performance, Computer-Aided Design, Computer Applications in Architecture, Criticism and Architecture, Conservation in the Built Environment, Daylight Studies, Energy in Buildings, Housing, Project Management, Solar Access; Urban Design.

ARCH 5011
Architecture Project II

- 12 units - semester 2
- Up to 20 hours a week studio work, with specialist lectures irregularly spaced
- Eligibility: B.Arch. and B.Arch/B.L.Arch. students only
- Prerequisite: ARCH 5018 Architecture Studio II
- Assessment: final project

A single project, of a student's own choice, which will be of moderate complexity. Responses should demonstrate all phases of architectural designing; sketch plans, technical development including one specialised topic, and a final presentation which should show a thorough integration of all major aspects of the academic program.

ARCH 5018
Architecture Studio II

- 8 units - semester 1
- Up to18 hours lectures/tutorials/workshops; contact hours vary from week to week
- Eligibility: B.Arch., B.Arch./B.L.Arch., students only
- Prerequisite: at least three of: ARCH 4016 Architecture Studio IA, ARCH 4025 Architecture Studio IB, ARCH 4000 Architecture Studio IC, ARCH 4003 Architecture Studio ID, ARCH 4026 Architecture/Landscape Architecture Studio IE, ARCH 4027 Architecture/Landscape Architecture Studio IF, LARCH 4010 Landscape Architecture Studio IA
- Corequisite: ARCH 5024 Architecture Practice II or ARCH 5025 Architecture/Landscape Architecture Practice II
- Assessment: projects

A project-based learning program in which students will develop their abilities to define the problem, bringing together the regulatory, technical, human (including social and cultural) and environmental factors studied in Level I Architecture Studios, and other facets of the theory and practice of design in architecture.

Architecture Studio II will typically be focused on the design of a mixed-use commercial multi-storey building located in a central business district and raising significant urban design issues. The project will be taken from early (facilities planning) to late (documentation) stages and beyond to post-occupancy evaluation, and will mirror in an educational setting many of the processes carried out in an architectural office. Other, minor, projects will typically involve the schematic design of a sports hall, warehouse, or similar large-span building and a suburban or rural site. Topics which will be emphasised include urban design; design in relation to fire safety and regulations; mechanical services (including heating, ventilation and air conditioning) electrical services; water supply and drainage; excavation and footings; materials and finishes; repetition of building material and industrialised components; joinery construction.

Lectures given in the course will complement the design process addressing the topics outlined above.

ARCH 5024
Architecture Practice II

- 4 units - semester 1
- Up to 6 hours lectures a week
- Eligibility: B.Arch., students only
- Corequisite: ARCH 5018 Architecture Studio II
- Restriction: ARCH 5025 Architecture/Landscape Architecture Practice II
- Assessment: work diaries, seminar papers, projects, exams.

This course will address the frameworks for and ethical structures of architectural and landscape architectural professional practice in South Australia and Australia. Topics include organisational theory; principles of law; the general organisation of architectural and landscape architectural (and multi-disciplinary) practices including the management of an office's human, physical and financial resources, the relationship between designers and their clients; consultants and contractors; contract administration; specifications; the legal qualifications of an architect and landscape architect; professional organisations; ethics; risk management and professional liability; planning and building law and regulations; problems facing the architect and landscape architect today; estimating and cost control; bills of quantities; the role of the quantity surveyor; project management; the range of services offered by architects and landscape architects.

A student is expected to be in possession of a current copy of the Building Code of Australia and its associated commentary, as a requirement of this course.

ARCH 5025
Architecture/Landscape Architecture Practice II

- 4 units - semester 1
- Up to 6 hours lectures a week
- Eligibility: B.Arch/B.L.Arch. double degree students only
- Corequisite: either ARCH 5018 Architecture Studio II or LARCH 5029 Landscape Architecture Studio II and LARCH 5004 Landscape Architecture Seminar II
- Restriction: ARCH 5024 Architecture Practice II or LARCH 5017 Landscape Architecture Practice II
- Assessment: work diaries, seminar papers, projects, exams.

This course will address the frameworks for and ethical structures of architectural and landscape architectural professional practice in South Australia and Australia. Topics include organisational theory; principles of law; the general organisation of architectural and landscape architectural (and multi-disciplinary) practices including the management of an office's human, physical and financial resources, the relationship between designers and their clients;

consultants and contractors; contract administration; specifications; the legal qualifications of an architect and landscape architect; professional organisations; ethics; risk management and professional liability; planning and building law and regulations; problems facing the architect and landscape architect today; estimating and cost control; bills of quantities; the role of the quantity surveyor; project management; the range of services offered by architects and landscape architects.

A student is expected to be in possession of a current copy of the Building Code of Australia and its associated commentary, as a requirement of this course.

ARCH 5027

Architecture/Landscape Architecture Studio IIF

- 4 units - semester 1
- Up to 18 hours lectures/tutorials/workshops; contact hours vary from week to week
- Eligibility: B.Arch/B.L.Arch. double degree students only
- Restriction: ARCH 4025 Architecture Studio IB
- Assessment: students must achieve at least 50% in two equally weighted components - assignments may include written, verbal, & graphical (2 & 3 dimensional) communication

A project-based learning program integrating design and the technology and practices of construction, structures, materials and building services, within a theoretical and historical context; taking account of human (physiological, social and cultural) and ecological factors. The course will typically be focussed on the design of a dwelling (or small group of dwellings) on a real site, with a particular owner-occupier as client. Students will be required to develop a brief from the client's instructions. Theory and practice regarding a range of aspects of low-rise domestic construction (including site preparation, footings, light timber framing and masonry construction) will be applied. Students will be expected to explore a design 'parti' and its sources and precedents, to explain design intentions and communicate the architectural intentions of the building design, and to demonstrate that they understand its potential construction and performance. There will be an emphasis on the lighting and thermal performance of the building and associated energy use, in the context of the client's requirements.

Asian Studies

Level I

ASIA 1101

Introduction to Chinese Society and Culture

- 3 units - semester 1
- 2 lectures, 1 tutorial per week
- Available for Non-Award study
- Assessment: essay, tutorial papers/presentations, hand-outs

From Gods, ghosts, bound lotus feet, peasants, Chineseness, revolution and dictatorship to little emperors, bad girl literature and Chinese hip hop; Introduction to Chinese Society and Culture introduces these and other major issues for anybody interested in China. This course focuses on key social and cultural issues in contemporary China and the influence of traditional society on them. By the end of the semester you will be familiar with some of the central concerns of Chinese culture and key ways of studying them. Teaching combines lectures, tutorials and slide and/or video presentations.

ASIA 1102

Introduction to Japanese Society and Culture

- 3 units - semester 2
- 2 lectures, 1 tutorial per week
- Available for Non-Award study
- Assessment: essay, tutorial papers, participation, exam

This course is designed to introduce Japanese society and culture both to students of Japanese language and non-language students. The first half of the course deals with the history of Japan, starting from pre-history and leading up to the end of WWII. We also examine the origins of Japanese people and the nature of Japanese language. The second half deals with diverse themes in contemporary Japanese society and culture ranging from politics, women, education and economy.

ASIA 1103

Asia and the World

- 3 units - semester 2
- 2 lectures, 1 tutorial per week
- Available for Non-Award study
- Assessment: tutorial presentations, tutorial paper & handouts, quizzes, major essay and/or exam

Before the Greeks and Romans there were Asian superpowers. As an introductory course, Asia and the World surveys the impact of Asia in shaping world history, culture and politics. We examine Asian powers and their military and diplomatic expansion and contractions, technological breakthroughs, commercial rises and

declines, cultural/religious and other influences. These issues are discussed in the context of Asia's roles in the ancient and pre-colonial past, the colonial era when Europe set out to dominate the world, and the post-colonial contemporary world.

Level II

ASIA 2002

Asian Studies (Core Topic)

- 4 units - semester 1
- 2 lectures, 1 tutorial per week
- Prerequisite: 6 units Level I Humanities/Social Sciences
- Assessment: participation, tutorial papers, essays, journal/research exercise

This course introduces Asia and Asian Studies as an area-focused discipline and examines discourse on Asia in a range of traditional disciplines such as politics, economics, history, sociology and philosophy. Some key constructs/theories for the study of Asia will be introduced and a number of themes will be examined in order to integrate theoretical knowledge with empirical examples. The course covers issues such as "Asian values", democratisation, economic development and culture, as well as Australia's relations with Asia.

ASIA 2003

Australia and the Asia Pacific

- 4 units - semester 2
- 1 lecture, 2 workshops
- Prerequisite: 6 units Level I Humanities/Social Sciences
- Assessment: essays, presentation, participation

The course will examine Australia's relations with Asia in global and regional perspective. Some of the enduring concerns of Australian and Asian policymakers such as the search for regional order, the resolution of political and trade disputes and management of political and economic interdependence will be addressed throughout the course. While some historical aspects of Australia's links with Asia will be considered to provide a backdrop to the relationship, the major part of the course's focus is placed on contemporary issues. The course will examine selected thematic issues concerning Australia's ties with Asia as well as regional and bilateral relations. While the course is designed to provide students of Asian and international studies with some of the essential conceptual and analytical tools to understand Australia's Asian context, it also serves as an introduction to Australia's relations with Asia which will be of interest to a wide range of students, especially those whose future jobs might be related to a particular Asian country or to the Asia Pacific region.

ASIA 2008

Contemporary China: Politics and Society

- 4 units - semester 2
- 1 lecture, 1 workshop and 1 tutorial
- Prerequisite: 6 units Level I Humanities/Social Sciences
- Restriction: Making China Great Again;
- Assessment: two tutorial papers, major research essay (singular or group) or take-home exam

From sick man to Red Menace and Yellow Terror to great friend, Wild Swans and HUGE MARKET, Contemporary China focuses on themes underlying the evolution of Chinese politics and society from circa 1900 to today. We examine the social and political currents which first gave rise to the Chinese Communist Party (CCP) and how these helped it to come to power in 1949. We look at how the CCP consolidated its power and began its attempt to make China, strong, prosperous and socialist. This includes tracing the evolution of CCP ideology, the development and ultimate failure of Maoism (e.g. the Great Leap Forward and Cultural Revolution). We examine how the CCP initiated a process of reform under Deng Xiaoping, a process which continues to have profound effects on the development of Chinese society and politics. Subsequent social change has created major problems for the CCP. We discuss the ability of the Party to respond to the challenges of political reform, such as whether and/or how to become more democratic, as well as the problems facing continued CCP rule. The relevance of historical, theoretical and ideological issues for understanding current developments is stressed and introduced mainly via the workshops.

ASIA 2012

Contemporary Japan: Culture and Identity

- 4 units - semester 2
- 1 lecture, 2 hour tutorial per week
- Prerequisite: 6 units Level I Humanities/Social Sciences
- Restriction: Contemporary Japan: Politics and Society II/III
- Assessment: two tutorial papers, major essay, participation

This course is designed as a sociological examination of the cultural aspects of contemporary Japanese society. Emphasis is on examining the character of the social and cultural order in contemporary Japan. Basic themes examined include: perspectives on identity formation, perspectives on Japanese identity, the individual and community, authority, work and identity, gender identity, ethnic identity, nationalism, minorities, youth culture, popular culture, food culture, and mass media. The themes covered may vary from year to year.

ASIA 2015

Politics and Foreign Policy in Contemporary Japan

- 4 units - semester 1
- 2 lectures, 1 tutorial per week.
- Prerequisite: 6 units level I Humanities/Social Sciences
- Assessment: tutorial presentation, participation, semester essays

The course focuses on the post-war Japanese political experience and examines issues in Japan's public policy and foreign relations. The course aims to provide students with an appreciation of the workings of the Japanese political and policy-making system and its foreign relations. Additionally it will aim at assisting students to apply concepts and methods (especially those of political science and international relations) to a particular country. Topics include the institutional basis of the post-war political system, the party system, electoral politics, policy processes, Parliament and the electoral process, regional politics, defence and security, Japan and the United States, Japan in the Asia Pacific region, Japan and international organisations (GATT, WTO, UN), Japan and Australia and Japan's foreign economic aid policy.

ASIA 2016

Religions of China

- 4 units - semester 1
- 1 lecture, 1 workshop, 1 tutorial per week
- Prerequisite: 6 units Level I Humanities/Social Sciences
- Assessment: group & individual presentations, two short papers, research paper

This course examines crucial elements of Chinese religious belief and practice as they relate to Chinese life. These elements may include the roles of sages and monks, ghosts, religious texts and holy scripts, visions of the apocalypse, the use of drugs, sacred spaces, the place of communism and how gods are created. Students will visit local places of Chinese religious practice and worship including Buddhist temples, Daoist home-temples, Yiguandao lecture halls and private home temples. On these visits students are expected to further their understanding of the modern interpretation of doctrine and scripture, as well as the function of traditional Chinese ritual practices in a contemporary Australian environment. Students will gain an insight into many general principles underlying Chinese religious beliefs and hence possibly also into their own beliefs; a first-hand experience of Chinese religious and ritual practices; and an understanding of the function of religious practice in maintaining Chinese identity and links with tradition.

Level III

ASIA 3003

Australia and the Asia Pacific

- 6 units - semester 2
- 1 lecture, 2 workshops
- Prerequisite: 8 units Level II Humanities/Social Sciences
- Assessment: essays, presentation, participation

The course will examine Australia's relations with Asia in global and regional perspective. Some of the enduring concerns of Australian and Asian policymakers such as the search for regional order, the resolution of political and trade disputes and management of political and economic interdependence will be addressed throughout the course. While some historical aspects of Australia's links with Asia will be considered to provide a backdrop to the relationship, the major part of the course's focus is placed on contemporary issues. The course will examine selected thematic issues concerning Australia's ties with Asia as well as regional and bilateral relations. While the course is designed to provide students of Asian and international studies with some of the essential conceptual and analytical tools to understand Australia's Asian context, it also serves as an introduction to Australia's relations with Asia which will be of interest to a wide range of students, especially those whose future jobs might be related to a particular Asian country or to the Asia Pacific region.

ASIA 3008

Contemporary China: Politics and Society

- 6 units - semester 2
- 1 lecture, 1 workshop and 1 tutorial
- Prerequisite: 8 units Level II Humanities/Social Sciences
- Restriction: Making China Great Again
- Assessment: two tutorial papers, and a major research essay (singular or group) or take-home exam.

From sick man to Red Menace and Yellow Terror to great friend, Wild Swans and HUGE MARKET, Contemporary China focuses on themes underlying the evolution of Chinese politics and society from circa 1900 to today. We examine the social and political currents which first gave rise to the Chinese Communist Party (CCP) and how these helped it to come to power in 1949. We look at how the CCP consolidated its power and began its attempt to make China, strong, prosperous and socialist. This includes tracing the evolution of CCP ideology, the development and ultimate failure of Maoism (e.g. the Great Leap Forward and Cultural Revolution). We examine how the CCP initiated a process of reform under Deng Xiaoping, a process which continues to have profound effects on the development of Chinese society and politics. Subsequent social change has created major problems for the CCP. We discuss the ability of the Party to respond to the challenges of political reform, such as whether and/or how to become more democratic, as well

as the problems facing continued CCP rule. The relevance of historical, theoretical and ideological issues for understanding current developments is stressed and introduced mainly via the workshops.

ASIA 3012

Contemporary Japan: Culture and Identity

- 6 units - semester 2
- 1 lecture, 2 hour tutorial per week
- Prerequisite: 8 units Level II Humanities/Social Sciences
- Restriction: Contemporary Japan: Politics and Society II/III
- Assessment: two tutorial papers, one major essay, participation

This course is designed as a sociological examination of the cultural aspects of contemporary Japanese society. Emphasis is on examining the character of the social and cultural order in contemporary Japan. Basic themes examined include: perspectives on identity formation, perspectives on Japanese identity, the individual and community, authority, work and identity, gender identity, ethnic identity, nationalism, minorities, youth culture, popular culture, food culture, and mass media. The themes covered may vary from year to year.

ASIA 3015

Politics and Foreign Policy in Contemporary Japan

- 6 units - semester 1
- 2 lectures, 1 tutorial per week.
- Prerequisite: 8 units level II Humanities /Social Sciences
- Assessment: tutorial presentation, participation, semester essays

The course focuses on the post-war Japanese political experience and examines issues in Japan's public policy and foreign relations. The course aims to provide students with an appreciation of the workings of the Japanese political and policy-making system and its foreign relations. Additionally it will aim at assisting students to apply concepts and methods (especially those of political science and international relations) to a particular country. Topics include the institutional basis of the post-war political system, the party system, electoral politics, policy processes, Parliament and the electoral process, regional politics, defence and security, Japan and the United States, Japan in the Asia Pacific region, Japan and international organisations (GATT, WTO, UN), Japan and Australia and Japan's foreign economic aid policy.

ASIA 3016

Religions of China

- 6 units - semester 1
- 1 lecture, 1 workshop, 1 tutorial
- Prerequisite: 8 units Level II Humanities/Social Sciences
- Assessment: mixture of group and individual presentations, two short papers, research paper

The course examines crucial elements of Chinese religious belief and practice as they relate to Chinese life. These elements may include the roles of sages and monks, ghosts, religious texts and holy scripts, visions of the apocalypse, the use of drugs, sacred spaces, the place of communism and how gods are created. Students will visit local places of Chinese religious practice and worship including Buddhist temples, Daoist home-temples, Yiguandao lecture halls and private home temples. On these visits students are expected to further their understanding of the modern interpretation of doctrine and scripture, as well as the function of traditional Chinese ritual practices in a contemporary Australian environment. Students will gain an insight into many general principles underlying Chinese religious beliefs and hence possibly also into their own beliefs; a first-hand experience of Chinese religious and ritual practices; and an understanding of the function of religious practice in maintaining Chinese identity and links with tradition.

Honours

ASIA 4401

Honours Asian Studies

- 24 units - full year
- Prerequisite: UG degree, credit average in courses contributing to major in an Asian language or Asian Studies or equivalent approved by Head of Discipline.
- Students wishing to take Honours Asian Studies should consult the Honours Coordinator prior to commencing Level II to ensure appropriate course choices are made in preparation for Honours
- Assessment: thesis 50%, theory and methodology 25%, advanced language 25%

Entry to Honours is subject to the approval of the Honours Committee. The Honours program consists of three elements: a research thesis, a semester coursework unit on theory and methodology in Asian Studies and a semester coursework unit on advanced language.

In some circumstances Honours Asian Studies can be studied part-time over two years or can be combined with Honours in another discipline.

Biochemistry

Level II

BIOCHEM 2100

Biochemistry IIA

- 4 units - semester 1
- 3 lectures, 1 tutorial per week, 4 hours practical per fortnight
- Available for Non-Award study
- Prerequisite: pass in either CHEM 1000B Chemistry I, CHEM 1200 Chemistry IB or Chemistry IANR and BIOLOGY 1101 Molecules, Genes and Cells A or BIOLOGY 1102 Molecules, Genes and Cells B and BIOLOGY1201 Human Perspectives or BIOLOGY 1202 Biology I: Organisms - other prerequisites may be accepted at discretion of Head of Discipline
- Restriction: BIOCHEM 2000A/B Biochemistry II, BIOCHEM 2100 Biochemistry IIA, BIOCHEM 2200 Biochemistry IIB, BIOCHEM 2001A/B Biochemistry II (Molecular Biochemistry), BIOCHEM 2101 Biochemistry II (Molecular Biology) A, BIOCHEM 2201 Biochemistry II (Molecular Biology) B, BIOCHEM 2005A/B Biochemistry II (Biotechnology), BIOCHEM 2105 Biochemistry II (Biotechnology) A, BIOCHEM 2205 Biochemistry II (Biotechnology) B, BIOCHEM 2003 Molecular Biology II (Biotechnology)
- Assessment: exams on lecture material; tutorials & practicals

Biochemistry provides an understanding and an appreciation of Molecular Biology and Metabolic Biochemistry. The topics covered include: specialised proteins, enzyme specificity and regulation, tissue specific metabolism and its control, how the body adjusts to variations in the demand for energy , mechanisms of hormone action and signal transduction pathways including some disease states.

The practical component for this course draws from the MBS Prac A, Prac B and Prac C series. Refer to Current Students Online Enrolment information at www.sciences.adelaide.edu.au for information on enrolling in these practicals.

BIOCHEM 2101

Biochemistry II (Molecular Biology) A

- 3 units - semester 1
- 3 lectures, 1 tutorial work per week
- Eligibility: for B.Science (Molecular Biology) students only
- Prerequisite: pass in CHEM 1000A/B Chemistry I or CHEM 1100 Chemistry IA and CHEM 1200 Chemistry IB and BIOLOGY 1101 Molecules, Genes and Cells A or BIOLOGY 1102 Molecules, Genes and Cells B and BIOLOGY 1201 Human Perspectives or BIOLOGY 1202 Biology I: Organisms - other prerequisites may be accepted at discretion of Head of Discipline
- Corequisite: BIOCHEM 2002A Advanced Molecular Biology IIA
- Assumed Knowledge: Level 1 Biology
- Restriction: BIOCHEM 2000A/B Biochemistry II , BIOCHEM 2100 Biochemistry IIA, BIOCHEM 2200 Biochemistry IIB, BIOCHEM 2001A/B Biochemistry II (Molecular Biology), BIOCHEM 2101 Biochemistry II (Molecular Biology) A, BIOCHEM 2201 Biochemistry II (Molecular Biochemistry) B, BIOCHEM 2003 Molecular Biology (Biotechnology)
- Assessment: exams on lecture material, other material as specified

Biochemistry provides an understanding and an appreciation of Molecular Biology, Cell Biology and Metabolic Biochemistry. The topics covered include: specialised proteins, enzyme specificity and regulation, tissue specific metabolism and its control, how the body adjusts to variations in the demand for energy , mechanisms of hormone action and signal transduction pathways including some disease states.

BIOCHEM 2102

Advanced Molecular Biology A

- 2 units - semester 1
- 2 hours practicals/tutorials per week
- Eligibility: for B.Science (Molecular Biology) students only
- Prerequisite: a pass in either CHEM 1000A/B Chemistry I or CHEM 1100 Chemistry IA and CHEM 1200 Chemistry IB AND a pass in BIOLOGY 1101 Molecules, Genes and Cells A or BIOLOGY 1102 Molecules, Genes and Cells B and BIOLOGY 1201 Human Perspectives- other prerequisites may be accepted at discretion of Head of Discipline
- Corequisite: BIOCHEM 2101 Biochemistry II (Molecular Biology)A
- Assumed Knowledge: Level I Biology
- Assessment: practical component, tutorials and written reports

A specialist course which promotes an integrated view of the molecular basis of biology and the chemistry of life with a particular focus on interdisciplinary areas. Students should acquire a thorough understanding of the power of molecular biology and molecular biological techniques and the conceptual basis for the molecular approach to biological understanding. The course material will be presented by staff from the Schools of Molecular and Biomedical Science, Physics and Chemistry and Agriculture and Wine. Invited speakers will present seminars and tutorials in their areas of expertise. Course material will include selected practical work, small group tutorials, seminars and problem-based learning in small teams.

BIOCHEM 2105

Biochemistry II (Biotechnology) A

- 4 units - semester 1
- 3 lectures, tutorial work per week, 4 hour & 1 hour practical per fortnight
- Eligibility: for B. Biotechnology & B.Sc.(Biotech) students only

- Prerequisite: specified courses for B.Biotech.incl. pass in either CHEM 1000A/B Chemistry I, CHEM 1200 Chemistry IB or Chemistry IANR and BIOLOGY 1101 Molecules, Genes and Cells A or BIOLOGY 1102 Molecules, Genes and Cells B and BIOLOGY 1201Human Perspectives or BIOLOGY 1202 Biology I: Organisms
- Corequisite: other courses required for the B.Biotechnology
- Assumed Knowledge: Level 1 Biology
- Assessment: exams on lecture material, tutorials & practical assessment

Biochemistry provides an understanding and an appreciation of Molecular Biology, Cell Biology and Metabolic Biochemistry. The topics covered include: specialised proteins, enzyme specificity and regulation, tissue specific metabolism and its control, how the body adjusts to variations in the demand for energy , mechanisms of hormone action and signal transduction pathways including some disease states.

The practical component for this course draws from the MBS Prac A, Prac B and Prac C series. Refer to Current Students Online Enrolment information at www.sciences.adelaide.edu.au for information on enrolling in these practicals.

BIOCHEM 2106

Biochemistry II (Agriculture) A

- 4 units - semester 1
- 3 lectures, tutorial, 4 hour practical per week
- Assumed Knowledge: CHEM 1000A/B Chemistry I Parts 1 & 2 or CHEM 1001A/B Foundations of Chemistry Parts 1 & 2
- Restriction: PLANT SC 2002 WT Chemistry of Biopolymers, BIOCHEM 2100 Biochemistry IIA

This course provides an introduction to the fundamental metabolic processes of microbial, plant and animal metabolism. Topics will include protein structure and function, mechanisms of enzyme action, the biochemistry of carbohydrate, fat and protein metabolism and the generation of energy by organisms. Examples of the applications of biochemistry to agriculture will be used to illustrate important principles.

BIOCHEM 2200

Biochemistry IIB

- 4 units - semester 2
- 3 lectures, 1 tutorial per week, 4 hours practical per fortnight
- Available for Non-Award study
- Prerequisite: Pass in either CHEM 1000B Chemistry I or CHEM 1200 Chemistry IB or Chemistry IANR AND a pass in BIOLOGY 1101 Molecules, Genes and Cells A or BIOLOGY 1102 Molecules, Genes and Cells B and BIOLOGY 1201 Human Perspectives or BIOLOGY 1202 Biology I: Organisms - other prerequisites may occasionally be accepted at the discretion of Head of Discipline
- Assessment: exams on lecture material; tutorials & practicals

Biochemistry provides an understanding and an appreciation of Molecular Biology, Cell Biology and Metabolic Biochemistry. The topics covered include: DNA structure and synthesis, mutation and repair, RNA and protein synthesis and the control of gene expression, recombinant DNA technology, cell structure and organisation and signal transduction pathways.

The practical component for this course draws from the MBS Prac A, Prac B and Prac C series. Refer to Current Students Online Enrolment information at www.sciences.adelaide.edu.au for information on enrolling in these practicals.

BIOCHEM 2201

Biochemistry II (Molecular Biology) B

- 3 units - semester 2
- 3 lectures, 1 tutorial work per week
- Eligibility: for B.Sc.(Molecular Biology) students only
- Prerequisite: Pass in either CHEM 1000A/B Chemistry I or CHEM 1100 Chemistry IA and CHEM 1200 Chemistry IB AND a pass in BIOLOGY 1101 Molecules, Genes and Cells A or BIOLOGY 1102 Molecules, Genes and Cells B and BIOLOGY 1201 Human Perspectives or BIOLOGY 1202 Biology I: Organisms - other prerequisites may occasionally be accepted at the discretion of Head of Discipline
- Corequisite: BIOCHEM 2202 Advanced Molecular Biology B
- Restriction: BIOCHEM 2000A/B Biochemistry II, BIOCHEM 2100 Biochemistry IIA, BIOCHEM 2200 Biochemistry IIB, BIOCHEM 2001A/B Biochemistry II (Molecular Biology), BIOCHEM 2101 Biochemistry II (Molecular Biology) A, BIOCHEM 2201 Biochemistry II (Molecular Biochemistry) B, BIOCHEM 2003 Molecular Biology (Biotechnology)
- Assessment: exams on lecture material, other material as specified

Biochemistry provides an understanding and an appreciation of Molecular Biology, Cell Biology and Metabolic Biochemistry. The topics covered include: DNA structure and synthesis, mutation and repair, RNA and protein synthesis and the control of gene expression, recombinant DNA technology, cell structure and organisation, and signal transduction pathways.

BIOCHEM 2202

Advanced Molecular Biology B

- 2 units - semester 2
- 2 hours practicals/tutorials per week
- Eligibility: for B.Science (Molecular Biology) students only
- Prerequisite: a pass in either CHEM 1000A/B Chemistry I or CHEM 1100 Chemistry IA and CHEM 1200 Chemistry IB AND a pass in BIOLOGY 1101 Molecules, Genes and Cells A or BIOLOGY 1102 Molecules, Genes and Cells B and BIOLOGY 1201Human Perspectives - other prerequisites may be accepted at discretion of Head of Discipline

- Corequisite: BIOCHEM 2101 Biochemistry II (Molecular Biology) B
- Assumed Knowledge: Level 1 Biology
- Assessment: practical component, tutorials and written reports

A specialist course which promotes an integrated view of the molecular basis of biology and the chemistry of life with a particular focus on interdisciplinary areas. Students should acquire a thorough understanding of the power of molecular biology and molecular biological techniques and the conceptual basis for the molecular approach to biological understanding. The course material will be presented by staff from the Schools of Molecular and Biomedical Sciences, Physics and Chemistry and Agriculture and Wine. Invited speakers will present seminars and tutorials in their areas of expertise. Course material will include selected practical work, small group tutorials, seminars and problem-based learning in small teams.

BIOCHEM 2205

Biochemistry II (Biotechnology) B

- 4 units - semester 2
- 3 lectures, 1 tutorial per week; 4hours practical per fortnight
- Eligibility: for B. Biotechnology & B.Sc.(Biotech) students only
- Prerequisite: specified courses for B.Biotech.incl. pass in either CHEM 1000A/B Chemistry I, CHEM 1201 Chemistry IB or Chemistry IANR and BIOLOGY 1101 Molecules, Genes and Cells A or BIOLOGY 1102 Molecules, Genes and Cells B and BIOLOGY 1201Human Perspectives or BIOLOGY 1202 Biology I: Organisms
- Corequisite: other courses required for B.Biotechnology
- Assumed Knowledge:, BIOCHEM 2105 Biochemistry II (Biotechnology)
- Assessment: exams on lecture material; tutorials & practicals

Biochemistry provides an understanding and an appreciation of Molecular Biology, Cell Biology and Metabolic Biochemistry. The topics covered include: DNA structure and synthesis, mutation and repair, RNA and protein synthesis and the control of gene expression, recombinant DNA technology, cell structure and organisation and signal transduction pathways

The practical component for this course draws from the MBS Prac A, Prac B and Prac C series. Refer to Current Students Online Enrolment information at www.sciences.adelaide.edu.aufor information on enrolling in these practicals.

Level III

BIOCHEM 3000

Molecular and Structural Biology III

- 6 units - semester 1
- 3 lectures, 1 tutorial, 8 hours practical per week
- Available for Non-Award study
- Prerequisite: either Pass in both BIOCHEM 2100 Biochemistry IIA and BIOCHEM 2200 Biochemistry IIB, or Pass in BIOCHEM 2205 Biochemistry II (Biotechnology) B
- Assumed Knowledge: Students who completed Biochemistry II prior to 1995 should consult department for advice
- Restriction: BIOCHEM 3900 Molecular Biology of the Gene; BIOCHEM 3902 Protein Structure and Function; BIOCHEM 3904 Molecular Biology and Protein Engineering Laboratory; BIOCHEM 3905 Biochemistry of Control of Gene Expression
- Assessment: exam on lecture material, practical component

This course has two major aims - to extend the discussions presented in Biochemistry II of molecular biology, and structure and function of proteins. Topics include - structure and function of different classes of proteins, protein folding, molecular recognition, chromatin structure and its remodelling during transcription, RNA synthesis, processing, modification, stability, translation, and manipulation of these to effect selective gene expression.

BIOCHEM 3001

Cell and Developmental Biology III

- 6 units - semester 2
- 3 lectures, 1 tutorial, 8 hours practical per week
- Available for Non-Award study
- Prerequisite: either Pass in both BIOCHEM 2100 Biochemistry IIA and BIOCHEM 2200 Biochemistry IIB, or Pass in both BIOCHEM 2105 Biochemistry II (Biotechnology) A and BIOCHEM 2205 Biochemistry II (Biotechnology) B
- Assumed Knowledge: BIOCHEM 3000 Molecular and Structural Biology III
- Restriction: Molecular Biology of Development, BIOCHEM 3901 Molecular Biology of the Cell, BIOCHEM 3903 Cell and Developmental Biology Laboratory
- Assessment: exam on lecture material, practical component

This course will focus on molecular aspects of cell and developmental biology. Over the last few years major advances have been made towards a complete understanding of cell behaviour, how cells respond to intracellular and extracellular signalling pathways and how this plays a central role in control of cell proliferation, development and disease states such as cancer. Topics include - intracellular compartments, trafficking of proteins and other molecules; the cytoskeleton and its role in determining

cell shape; cell adhesion and cell migration. The course also examines molecular mechanisms underlying cell-cell communication, signal transduction pathways, control of cell proliferation, cell fate decisions and differentiation. Specific topics include cell cycle control, chromosomal DNA replication, programmed cell death/apoptosis and molecular control of cell lineage. All of these concepts are finally integrated to discuss the role of oncogenes and tumour suppressor genes in the molecular basis of cancer. The molecular basis of animal development in both simple systems and vertebrates will be discussed, including limb regeneration, differentiation and morphogenesis, the molecular basis of segmentation and body plan, cellular events during embryogenesis, the role of growth factors in developmental decisions and medical applications. Animal transgenesis will also be discussed.

BIOCHEM 3002

Advanced Molecular Biology III

- 2 units - semester 1

12 hours tutorials, 50 hours practicals

- Eligibility: B.Science (Molecular Biology) students only
- Prerequisite: Level 2 prerequisites required for B.Science (Molecular Biology) students only
- Assessment: practical component, written reports

The course will consist of practical sessions and specialised tutorials. The practical component will be a mixture of sessions from existing courses (BIOCHEM 3000 Molecular and Structural Biology and GENETICS 3000 Molecular Genetics: Genomes and Gene Expression) and projects conducted within individual laboratories from the Departments of Molecular Biosciences and Chemistry. The practical component for individual students will vary according to their selection of other Level III courses. This is necessary to avoid duplication of practical sessions (eg those enrolled in BIOCHEM 3000 Molecular and Structural Biology III will not have the practical component of BIOCHEM 3000 Molecular and Structural Biology III included in Advanced Molecular Biology III). All students will take the specialised tutorials, which will highlight recent advances in molecular biology. The core of these tutorials will be provided by the Departments of Molecular Biosciences and Chemistry. Experts from other science departments and the Waite Campus will also be invited to participate in problem solving sessions that relate to their field of study.

BIOCHEM 3003

Genes and Proteins III (Molecular Biology)

- 4 units - semester 1
- 3 lectures, 1 tutorial per week
- Eligibility: B.Science (Molecular Biology) students only
- Prerequisite: either Pass in BIOCHEM 2001A/B Biochemistry II (Molecular Biology) or Pass in both BIOCHEM 2101 Biochemistry II (Molecular Biology) A and BIOCHEM 2201 Biochemistry II (Molecular Biology) B
- Corequisite: BIOCHEM 3002 Advanced Molecular Biology III
- Assessment: end of semester exam on lecture material

This course has two major aims - to extend the discussions presented in Biochemistry II of molecular biology, and structure and function of proteins. Topics include - structure and function of different classes of proteins, protein folding, molecular recognition, chromatin structure and its remodelling during transcription, RNA synthesis, processing, modification, stability, translation, and manipulation of these to effect selective gene expression.

Honours

BIOCHEM 4000

Honours Biochemistry

- 24 units - full year
- Prerequisite: satisfactory performance in Level III courses offered by Department. - students from other Departments/Institutions who have passed suitable Level III courses may be considered

Candidates are required to give their full time to a special program of study and experimental work. Candidates will normally be expected to start the program on the first Monday of February, but this can be altered in special circumstances by arrangement with the Discipline Leader for Biochemistry.

The work includes participation in a series of lecture-symposia on topics of modern biochemistry; participation in research seminars, and the performance of research work under the supervision of one or more members of the Biochemistry staff. Early in the year students will report on the aim, significance and approach of their research topic. During the program candidates may present and defend an original proposition on science and submit the results of their research in the form of a thesis, which will also contain a literature review surrounding their research topic.

Intending Honours candidates should consult the Discipline Leader of Biochemistry during the final year of the B.Sc.

Biology

Level I

BIOLOGY 1101

Biology I: Molecules, Genes and Cells A

- 3 units - semester 1
- Available for Non-Award study
- Restriction: BIOLOGY 1102 Biology I: Molecules, Genes and Cells IB, ENV BIOL 1000A/B Biology I, GENETICS 1000A/B Molecular Cell Biology I
- Assessment: exams, practical work/tutorial assessment

This is a course for students who have not attained an achievement score of 13 in SACE Stage 2 Biology. It prepares students for further studies in either of the second semester biology courses. The course introduces five major themes that are the basis for understanding how all organisms function. These are: Molecules in Biology; Cell biology; Cellular energetics; Cell division and inheritance; How genes work - DNA to protein.

BIOLOGY 1102

Biology I: Molecules, Genes and Cells B

- 3 units - semester 1
- Available for Non-Award Study
- Prerequisite: SACE Stage 2 Biology with subject achievement score of at least 13 or equivalent
- Restriction: BIOLOGY 1101 Biology I: Molecules, Genes and Cells IA, ENV BIOL 1000A/B, GENETICS 1000A/B Molecular Cell Biology I
- Assessment: exams, practical work/tutorial assessment

This course runs parallel to BIOLOGY 1101 Biology I: Molecules, Genes and Cells A but takes into account the fact that students have been introduced to some of the topics in SACE Stage 2 Biology. It prepares students for further studies in either of the second semester biology courses. This course covers five major themes that are the basis for understanding how all organisms function. These are: Molecules in biology; Cell biology; Cellular energetics; Cell division and inheritance; How genes work - DNA to protein.

BIOLOGY 1201

Biology I: Human Perspectives

- 3 units - semester 2
- Available for Non-Award Study
- Assumed Knowledge: either of BIOLOGY 1101 Biology I: Molecules, Genes and Cells IA or BIOLOGY 1102 Biology I: Molecules, Genes and Cells IB
- Restriction: ENV BIOL 1000A/B Biology I, GENETICS 1000A/B Molecular Cell Biology I, BIOLOGY 1202 Biology I: Organisms I
- Assessment: exams, practical work/tutorial assessment

This course builds on fundamentals of biology that have been developed in Molecules, Genes and Cells. The course takes molecular, cellular, whole body, population and evolutionary approaches to understanding biology as it pertains to human function and the interactions of the body with the environment. In many cases, our understanding of human function is best derived for studies of mammalian and non-mammalian organisms, and where appropriate, such models will be discussed. The themes that will be covered include: the organization of the body, evolution, inheritance, regulation of gene expression, communication and control systems in the body; developmental biology and defense systems. Sessions, which provide opportunities to integrate the information and demonstrate how it provides an understanding of normal human function and of disease will be a regular feature of the course.

BIOLOGY 1202

Biology I: Organisms

- 3 units - semester 2
- Assumed Knowledge: Either BIOLOGY 1101 Biology I: Molecules, Genes and Cells IA or BIOLOGY 1102 Biology I: Molecules, Genes and Cells B
- Restriction: ENV BIOL 1000A/B Biology I, GENETICS 1000A/B Molecular Cell Biology I, BIOLOGY 1201 Biology I: Human Perspectives I, ENV BIOL 1003 Biology of Organisms
- Assessment: exam, assignments and practical reports

This course focuses on the biology and diversity of multicellular organisms, with evolution as the central theme. It addresses key questions in biology: What are plants and animals? How do they evolve? How do they function? How do they interact with other organisms and the environment? These questions are answered by analyzing the scientific evidence that supports current theory.

Biometry

Level III

BIOMET 3000WT

Agricultural Experimentation

- 3 units semester 1
- 2 lectures, 2 hour tutorial a week
- Prerequisite: BIOMET 2000WT Biometry
- Assessment: individual assignment 30%, written assignments 10%, final exam 60%

The philosophy of science and the experimental method. Topics covered include: Latin squares, factorial designs, split-plot designs, analysis of covariance, multiple comparisons, linear contrasts, orthogonal polynomials, generalised linear models, probit analysis, transformation of data. The statistical package Genstat for Windows will be used for the analysis of data sets.

BIOMET 3001WT

Advanced Biometry

- 3 units - semester 2
- even years only
- 3 lectures, two hour tutorial per week, computer exercises
- Prerequisite: BIOMET 3000WT Agricultural Experimentation.
- Assessment: individual assignment 30%, class exercises 10%, final exam 60%

A selection of topics from the following: fractional replication; confounding; incomplete block designs; spatial analysis of large field trials; components of variance models; genotype x environment analysis (joint regression analysis and cluster analysis); multivariate analysis (principal components, factor analysis, Hotellings T2 and the linear discriminant function); harmonic regression and transformations; design and analysis of repeat measures data; non-linear regression; epidemiological methods (logistic regression). As well as Genstat for Windows, the statistical packages SAS, REML and S-PLUS may be utilised.

Biotechnology

Level I

BIOTECH 1000
Introduction to Biotechnology

- 3 units - semester 1
- 2 lectures, 4 hours practicals or equivalent per week
- Restriction: B.Biotech & B.Sc.(Biotech) students only
- Assessment: exam 60%, assignments / group projects 40%

Global significance of biotechnology, categories of biotechnology processes and products, "traditional" vs "modern" biotechnology processes; key developments in history of biotechnology, enabling technologies - fermentation, downstream processing; enabling technologies - recombinant methods, monoclonals, analysis and automation, PCR, genomics, proteomics, metabolomics; biotechnology enterprises in South Australia and Australia, global biotechnology enterprises/industries; biotechnology and society - perceived vs actual benefits and drawbacks, legal and ethical issues, regulations governing biotechnology research and industry; considerations in the genesis of the typical biotechnology process/product/enterprise; future trends in biotechnology: development costs, venture capital, patenting, product safety, legislation, marketing. Case studies on the interdisciplinary nature of biotechnology and factors favouring local/regional development of a biotechnology industry will also be included.

Level III

BIOTECH 3000
Biotechnology Practice III

- 6 units - semester 2
- 3 lectures, 1 tutorial, 5 hours project work per week
- Eligibility: B.Biotech & B.Sc.(Biotech) students only
- Prerequisite: MICRO 2002 Microbiology II (Biotechnology), BIOCHEM 2003 Molecular Biology II (Biotechnology) and CHEM ENG 2005 Principles of Biotechnology II
- Assessment: written exam 70%, project 30%

The aim of this course is to add to the strong scientific focus of the degree by providing an introduction to aspects of technology, business and ethical issues relevant to the diverse nature of biotechnology industry. Students completing this course should be well equipped to undertake further studies (e.g. Honours in Biotechnology or a Master of Business Administration), obtain employment in research laboratories, obtain employment in local, interstate and overseas biotechnology companies or create their own business. Topics include intellectual property and its commercialisation, basic business accounting, preparing a business plan, principles in bioprocess engineering and design, use of animal and plant cell culture systems, validation and monitoring, food biotechnology, genetically modified organisms, food additives and byproducts. The group-based project involves preparation of a business plan to operate a model biotechnology business.

Chemistry

Level I

CHEM 1100
Chemistry IA

- 3 units - semester 1
- 3 lectures, 1 tutorial per week, 6 x 3 hour practical sessions (or equiv), interactive computer assessed tutorials & practicals
- Prerequisite: SACE Stage 2 Chemistry with a Subject Achievement score of at least 13 or equivalent - in exceptional circumstances, consult the Head of Department
- Assessment: end of semester exam 70%, laboratory work 20%, computer assessed tutorials 10%

Shape and structure - the importance of molecular shape and how chemists determine the structure of compounds using spectroscopic techniques including ultraviolet, infrared and nuclear magnetic resonance. Matter and Energy the relevance of intermolecular forces, chemical equilibrium and energy considerations applied to aspects of chemistry and biochemistry.

CHEM 1101
Foundations of Chemistry IA

- 3 units - semester 1
- 3 lectures, 1 tutorial per week, 6 x 3 hour practical sessions (or equiv), interactive computer assessed tutorials & practicals
- Assumed Knowledge: SACE Stage 2 Chemistry or equivalent
- Restriction: students with a SACE Stage 2 Chemistry Subject Achievement score of at least 13 or equivalent
- Assessment: exam 70%, computer assess tutorials 10%, laboratory work 20%

Introductory theories of molecule formation and structure including the importance of molecular shape. Intermolecular forces. Chemistry

of biological and synthetic polymers - peptides and proteins; polyalkenes, polyesters and polyamides. Introduction to spectroscopic identification of functional groups and molecular structure.

CHEM 1200
Chemistry IB

- 3 units - semester 2
- 3 lectures, 1 tutorial per week, 6 x 3 hour practical sessions (or equiv), interactive computer assessed tutorials & practicals
- Prerequisite: SACE Stage 2 Chemistry Subject Achievement score of at least 13 (or equivalent) - in exceptional circumstances, consult the Head of Department
- Assumed Knowledge: CHEM 1100 Chemistry IA
- Assessment: exam 70% laboratory work 20%, computer assessed tutorials 10%

Chemistry and Biochemistry of the Elements - chemistry of the main group metals and non-metals and first-row transition (d-block) elements, coordination complexes, and metals in biological systems. Bio-organic and Polymer chemistry - an introduction to the properties and syntheses of biological compounds and pharmaceuticals; chemistry of biological and synthetic polymers.

CHEM 1201
Foundations of Chemistry IB

- 3 units - semester 2
- 3 lectures, 1 tutorial per week; 6 x 3 hour practical sessions (or equiv), interactive computer assessed tutorials & practicals
- Assumed Knowledge: SACE Stage 2 Chemistry or equivalent and CHEM 1101 Foundations of Chemistry A
- Restriction: students with a SACE Stage 2 Chemistry Subject Achievement score of at least 13 or equivalent
- Assessment: end of semester exam and tutorials 80%, laboratory work 20%

Introduction to chemical equilibrium – acids and bases, titrations, buffers. Energy considerations applied to aspects of chemistry and biochemistry. Introduction to the chemistry and biochemistry of the elements – chemistry of the main group metals and non-metals and first-row transition (d-block) elements, coordination complexes, and metals in biological systems.

Level II

CHEM 2003
Environmental Chemistry II

- 4 units - semester 1
- 3 lectures, 1 tutorial, 6 hours practical work per week
- Prerequisite: CHEM 1000A/B Chemistry I or CHEM 1100 Chemistry IA & CHEM 1200 Chemistry IB, or either CHEM 1001A/B Foundations of Chemistry I or CHEM 1101 Foundations of Chemistry A & CHEM 1200 Foundations of Chemistry B or equiv
- Restriction: SOIL&WAT 2009WT Environmental Chemistry II (NR)
- Assessment: exam 75%, practical work 25%

This course aims to establish a sound understanding of the chemical nature of the biosphere and the natural and human induced chemical variations in local and global environments. The atmospheric, terrestrial, riverine and oceanic chemical compositions and their interactions to produce climate and other environmental variations are examined. The natural chemical cycles of major environmental importance, such as those of carbon, nitrogen, oxygen-ozone phosphorus and sulfur, are examined. The chemical environmental impact of human activities such as farming, mining and other industries, will be examined in both general terms and through case studies. Analytical chemistry, spectroscopy and statistical analysis will be included as integral parts of the course. Teaching will be through lectures and laboratory classes which may include some field study.

CHEM 2100
Chemistry IIA

- 4 units - semester 1
- 3 lectures, 1 tutorial, 5 hours practical work (or equiv) per week
- Prerequisite: CHEM 1000A/B Chemistry I (Pass) or CHEM 1100 Chemistry IA (Pass) & CHEM 1200 Chemistry IB (Pass), Either CHEM 1001A/B Chemistry I (Credit) or CHEM 1101 Foundations of Chemistry A (Credit) & CHEM 1201 Foundations of Chemistry B (Credit) or equivalent
- Assessment: exams 65%, laboratory work 25%, tutorial papers 10%

The Chemistry II course has been designed to provide students that have an interest in chemistry with the necessary knowledge and skills to undertake further studies in the discipline. Chemistry II has also been designed for students that are interested in pursuing a pathway in the biological, environmental, earth and physical sciences. Students wanting to follow a pathway in Biomedical Science, Molecular Biology, Geoscience or Environmental Science will find this course particularly useful. Chemistry IIA will focus on the architecture and reactions of molecules and will include discussion of isolation and structure determination of molecules and the principles of synthesis involving addition, elimination, substitution and condensation reactions.

CHEM 2101

Chemistry IIA (Mol.Biol.)

- 3 units - semester 1
- 3 lectures, 1 tutorial per week
- Eligibility: B.Sc.(Molecular Biology) students only
- Prerequisite: either CHEM 1000A/B Chemistry I or CHEM 1100 Chemistry IA and CHEM 1200 Chemistry IB
- Corequisite: BIOCHEM 2002A/B Advanced Molecular Biology II
- Assessment: exam 80%, tutorial papers 20%

Chemistry IIA (Mol. Biol.) will focus on the architecture and reactions of molecules and will include discussion of isolations and structure determination of molecule and the principles of synthesis involving addition, elimination, substitution and condensation reactions.

CHEM 2104

Chemistry IIAE

- 4 units - semester 1
- 3 lectures, 1 tutorial per week; 5 x 5 hour practical sessions (or equiv)
- Eligibility: Chemical Engineering students only
- Prerequisite: either CHEM 1000A/B Chemistry I (Pass) or CHEM 1100 Chemistry IA and CHEM 1200 Chemistry IB or 8811 Chemistry I (Eng.) Mid-Year or equivalent
- Assumed Knowledge: basic mathematical proficiency equivalent to Level I Mathematical Sciences course
- Assessment: exam 65%, laboratory work 25%, tutorial papers 10%

Chemistry IIAE will focus on the architecture and reactions of molecules and will include discussion of the principles of synthesis, isolation and structure determination of molecules and discussion of some aspects of industrial chemistry including aspects of polymer chemistry, petroleum chemistry and catalysis.

CHEM 2106

Chemistry IIA (Molecular & Drug Design)

- 4 units - semester 1
- 3 lectures, 1 tutorial, 5 hours practic work (or equiv) per week
- Eligibility: B.Sc.(Molecular and Drug Design) students only
- Prerequisite: either CHEM 1000A/B Chemistry I or CHEM 1100 Chemistry IA and CHEM 1200 Chemistry IB
- Assessment: exam 65%, laboratory work 25%, tutorial papers 10%

This course will focus on the architecture and reactions of molecules and will include discussion of isolation and structure determination of molecules and the principles of synthesis involving addition, elimination, substitution and condensation reactions.

CHEM 2200

Chemistry IIB

- 4 units - semester 2
- 3 lectures, 1 tutorial, 5 hours practical work (or equiv.) per week
- Prerequisite: either CHEM 1000A/B Chemistry I (Pass) or CHEM 1100 Chemistry IA (Pass) and CHEM 1200 Chemistry IB (Pass), or either CHEM 1001A/B Chemistry I (Credit) or CHEM 1101 Foundations of Chemistry A (Credit) and CHEM 1201 Foundations of Chemistry B (Credit)or acceptable equivalent
- Assessment: end of semester exam on lecture content 65%, practical work 25%, tutorial papers 10%

Chemistry IIB will focus on chemical reactivity and will illustrate both how chemical reactions occur and the influence that chemical structure has on the properties of molecules. Examples that illustrate the concepts presented will be drawn from areas such as drug design and synthesis, biological processes, modern industrial processes, bio- and synthetic polymers and nanomaterials. Principles of metal-ligand chemistry will also be addressed.

CHEM 2201

Chemistry IIB (Mol.Biol.)

- 3 units - semester 2
- 3 lectures, 1 tutorial per week
- Eligibility: B.Sc. (Molecular Biology) students only
- Prerequisite: either CHEM 1000A/B Chemistry I or CHEM 1100 Chemistry IA and CHEM 1200 Chemistry IB
- Corequisite: BIOCHEM 2002A/B Advanced Molecular Biology II
- Assumed Knowledge: CHEM 2101 Chemistry IIA (Mol. Biol.)
- Assessment: exams 80%, tutorial papers 20%

Chemistry IIB (Mol. Biol.) will focus on chemical reactivity and will illustrate both how chemical reactions occur and the influence that chemical structure has on the properties of molecules. Examples that illustrate the concepts presented will be drawn from areas such as drug design and synthesis, biological processes, modern industrial processes, bio- and synthetic polymers and nanomaterials. Principles of metal-ligand chemistry will also be addressed.

CHEM 2204

Chemistry IIBE

- 4 units - semester 2
- 36 hours lectures, 4 x 5 hour practical sessions (or equiv), tutorial work in Depts of Chemistry and Chemical Engineering
- Eligibility: Chemical Engineering students only
- Prerequisite: either CHEM 1000A/B Chemistry I or CHEM 1100 Chemistry IA & CHEM 1200 Chemistry IB or 8811 Chemistry I (Eng.) Mid-Year or equivalent

- Assumed Knowledge: CHEM 2104 Chemistry IIE, basic mathematical proficiency equiv. to Level I Mathematical Sciences course
- Assessment: exams 80%, practical work 20%

Chemistry IIBE will focus on why and how reactions occur and will include discussion of thermodynamics and quantum energetics, reaction kinetics and dynamics, and surface chemistry. Chemical Engineering topics include thermodynamics; equations of state; thermodynamics of real substances; heat, work and engines; refrigeration and liquefaction; phase equilibria and multicomponent systems; equilibria in chemically reacting systems.

CHEM 2206

Chemistry IIB (Molecular and Drug Design)

- 4 units - semester 2
- 3 lectures, 1 tutorial, 5 hours practical work (or equiv) per week
- Eligibility: B.Sc. (Molecular and Drug Design) students only
- Prerequisite: either CHEM 1000A/B Chemistry I or CHEM 1100 Chemistry IA & CHEM 1200 Chemistry IB
- Assumed Knowledge: CHEM 2106 Chemistry IIA (Mol.Drug Des.)
- Assessment: exam 65%, practical work 25%, tutorial papers 10%

Chemistry IIB (Mol. Drug Des.) will focus on chemical reactivity and will illustrate both how chemical reactions occur and the influence that chemical structure has on the properties of molecules. Examples that illustrate the concepts presented will be drawn from areas such as drug design and synthesis, biological processes, modern industrial processes, bio- and synthetic polymers and nanomaterials. Principles of metal-ligand chemistry will also be addressed.

CHEM 2207

Analytical Chemistry II

- 4 units - semester 2
- 3 lectures, 1 tutorial, 6 hours practical per week
- Prerequisite: either CHEM 1000A/B Chemistry I or CHEM 1100 Chemistry IA and CHEM 1200 Chemistry IB, or either CHEM 1001A/B Foundations of Chemistry I or CHEM 1101 Foundations of Chemistry IA and CHEM 1200 Foundations of Chemistry IB or acceptable equivalent.

This course examines and provides a sound physical understanding of the techniques that a professional chemist would use to determine the chemical composition of material. It includes chromatography of various types (including GLC, HPLC, HPIC, ion exchange), electrochemical and optical spectroscopic methods (including metal analysis), advanced instrumental techniques and statistical analysis of data.

Level III

CHEM 3005

Topics in Chemistry IIIA

- 6 units - semester 1
- 4 lectures, 12 hours practical work (or equivalent) per week
- Prerequisite: Either CHEM 2000A/B Chemistry II or CHEM 2100 Chemistry IIA & CHEM 2200 Chemistry IIB

Course content by arrangement with the Head of Chemistry

CHEM 3006

Topics in Chemistry IIIB

- 6 units - semester 2
- 4 lectures, 12 hours practical work (or equiv) per week
- Prerequisite: Either CHEM 2000A/B Chemistry II or CHEM 2100 Chemistry IIA & CHEM 2200 Chemistry IIB

Course content by arrangement with the Head of Chemistry

CHEM 3109

Chemical Synthesis IIIA

- 6 units - semester 1
- 4 lectures, 12 hours practical work (or equivalent) per week
- Prerequisite: either CHEM 2000A/B Chemistry II or CHEM 2100 Chemistry IIA & CHEM 2200 Chemistry IIB
- Assessment: exam 75%, practical work 25%

This course will focus on methods used to prepare a range of molecules and also to determine the structure of a compound by both direct & indirect methods. The use of spectroscopic techniques (particularly infrared & nuclear magnetic resonance) and mass spectrometry for the determination of chemical structures will be described. Strategies for solving problems related to chemical composition and structure will be emphasised. Theoretical aspects and applications of a variety of synthetically useful reactions will be presented. The synthetic aspect of this course will initially focus on enol and enolate chemistry and the utility of these species in C-C bond forming reactions including the Aldol, Claisen & Dieckman condensations and the malonate and acetoacetate syntheses. Further examples will be drawn from the Stork enamine synthesis, conjugate & Michael addition reactions. Carbon-carbon bond formation through the use of free-radical reactions and reactions with ylids will also be presented. Particular emphasis will be placed on reagents and mechanisms of these processes. An introduction to the principles of medicinal chemistry including lead generation, lead optimization and quantitative structure-activity relationships will then be presented. The principles of combinatorial chemistry will be presented in this context.

CHEM 3110

Chemistry of Materials IIIA

- 6 units - semester 1
- 4 lectures, 12 hours practical work (or equiv) per week
- Prerequisite: either CHEM 2000A/B Chemistry II or CHEM 2100 Chemistry IIA & CHEM 2200 Chemistry IIB
- Assessment: exam on lectures 75%, practical work 25%

This course will present the key ideas required to understand the chemistry of modern materials. It commences with a presentation methods used to determine the chemical composition and structure of materials by both direct & indirect methods. The use of spectroscopic techniques and mass spectrometry for the determination of chemical structures will be described. Common instrumental methods used in chemical analysis including chromatography, electro-chemistry, and optical spectroscopy will then be presented. Statistical analysis of data and theory of sampling will also be addressed. The spectroscopic interaction of matter with varying forms of radiation will be examined in detail. Rotational, vibrational and electronic spectroscopies will be explored with applications drawn from chemistry, biology, nanoscience and other relevant areas. The principles of photochemistry will be presented, with emphasis on the role of light in both inducing and monitoring chemical reactions and controlling electron transfer. Focus will then turn to the characteristics, operation and underlying chemical aspects of various types of lasers. The final section will explore gas phase molecular reactions and show how laser radiation can be used to provide insight into the kinetics, thermochemistry and dynamics of molecular reactions. Aspects of collision theory, activated complexes, potential energy surfaces and reaction coordinates will be considered.

CHEM 3209

Chemical Synthesis IIIB

- 6 units - semester 2
- 4 lectures, 12 hours practical work (or equiv) per week
- Prerequisite: either CHEM 2000A/B Chemistry II or CHEM 2100 Chemistry IIA & CHEM 2200 Chemistry IIB
- Assumed Knowledge: CHEM 3109 Chemical Synthesis IIIA
- Assessment: exams on lectures 75%, practical work 25%

This course will continue on from Chemical Synthesis IIIA by expanding the repertoire of synthetic procedures. Again, attention will be focused on reagents and mechanisms. The use of metals in synthesis will be presented. Important areas to be covered include the effect of transition metal substituents on the electron distribution in organic molecules and hence their use in tailoring reactivity, leading to a consideration of the use of transition metal catalysts in selected H-H and C-H activation, and C-C bond-making and bond-breaking reactions, including metathesis. The applications of chemical principles in a variety of contexts including industrial processes & chiral synthesis will be addressed. An overview will be given of synthetic strategy including the design and control of stereochemistry in the synthesis of complex molecules. Applications of mass spectrometry and NMR spectroscopy to the structure determination of biologically important molecules (particularly proteins) will be presented. The chemistry of a number of key biological processes (e.g. enzyme chemistry, action of antibiotics on membranes etc.) will also be presented together with the chemistry and synthesis of heterocyclic compounds with emphasis on those of biological significance.

CHEM 3210

Chemistry of Materials IIIB

- 6 units - semester 2
- 4 lectures, 12 hours practical work (or equivalent) per week
- Prerequisite: either CHEM 2000A/B Chemistry II or CHEM 2100 Chemistry IIA & CHEM 2200 Chemistry IIB
- Assumed Knowledge: CHEM 3110 Chemistry of Material IIIA
- Assessment: exam 75%, practical work 25%

This course will use qualitative Molecular Orbital Theory as the means of rationalising (a) the structures and reactivity of co-ordination compounds; and (b) aromatic molecules and their stability. Important areas to be covered include the effect of transition metal substituents on the electron distribution in organic molecules and hence their use in tailoring reactivity, leading to a consideration of the use of transition metal catalysts in selected H-H and C-H activation, and C-C bond-making and bond-breaking reactions, including metathesis. Industrial applications of these processes will be considered. The dominant role of pi bonding electrons in the stabilities and characteristic reactions of aromatic molecules will be addressed. Pericyclic reactions will be introduced. Chemistry of complexes containing carbon-metal bonds, including bonding, synthesis and reactions will be presented including a consideration of the influence of metal substituents on reactivity. Industrially important processes catalysed by transition metals will be addressed. Inorganic and bioinorganic reaction processes including solvent exchange, ligand substitution, host-guest complexation, nanodevices, ionophoric antibiotics, reactions and electron transfer processes will be introduced. Aspects of coordination chemistry including theory, structure and spectroscopy, polyatomic clusters will be presented. The formation of metal complexes in solution (including speciation, equilibria and energetics) will be presented. Metal-DNA chemistry will also be addressed.

Honours

CHEM 4000

Honours Chemistry

- 24 units - full year
- Prerequisite: major in Chemistry,/Organic Chemistry /Physical & Inorganic Chemistry, or equivalent, at standard satisfactory to Head of Chemistry - intending Honours students should consult Head of Chemistry during preceding year
- Assessment: coursework undertaken, research report, oral exam and supervisor's assessment

The Department of Chemistry runs Honours programs commencing in February and August (mid year intake). Each student is required to devote their full time to a coursework program and a research project. The course work covers a range of advanced topics, the methods of presentation and assessment of which vary according to topic. Honours students are required to attend seminars and research colloquia. The research project, chosen after consultation with academic staff, is designed to broaden and deepen student's chemical understanding and experimental and communication skills. Each student will be required to present a seminar and a research report on their project at the end of the Honours year.

CHEM 4001

Honours Bachelor of Environmental Science (Chemistry)

- 12 units - full year
- Prerequisite: credit or higher in at least two Level III courses approved by Head of Department
- Requirement: modest research project of the student's choosing (on topic acceptable to Head of Department) normally taken at same time as coursework (12 units of Level III courses relevant to the student's Honours project)
- Assessment: research proposal, seminars, thesis, viva voce 60%, average of Level III courses referred to above 40%

Intending candidates should consult the Head of Chemistry and potential supervisors during the third year and be prepared to begin studies in the Department at the beginning of February or August (mid year intake).

Chinese

Level I

CHIN 1001

Chinese IA

- 3 units (4.5 Flinders units) - semester 1
- 5 contact hours, 1 hour language laboratory per week (unsupervised)
- Flinders students should enrol in CHIN 1001FL
- Available for Non-Award study
- Assumed Knowledge: no previous knowledge of Chinese required
- Assessment: continuous assignments & tests, oral tests, mid-term & final exam

The course consists of the study of the basic grammar, vocabulary and structures of modern standard Chinese (Mandarin) with special emphasis on the style and usage found in China today. Students will learn around 250 Chinese characters and associated compounds, concentrating on vocabulary which relates to contemporary China.

CHIN 1002

Chinese IB

- 3 units (4.5 Flinders units) - semester 2
- 5 contact hours, 1 hour in language laboratory per week (unsupervised)
- Flinders students should enrol in CHIN 1002FL
- Available for Non-Award study
- Prerequisite: CHIN 1001 Chinese IA (Pass Div 1) or equiv.
- Assessment: assignments & tests, oral tests, mid-term, final exam

This course is a continuation of CHIN 1001 Chinese IA. It continues instruction and practice in the speaking, understanding, writing and reading of modern standard Chinese. Throughout the course, mastery of conversational skills will be reinforced through oral-aural practice and at the same time, increased emphasis will be placed on contemporary texts. By the end of the semester students will know around 600 Chinese characters.

CHIN 1011

Chinese ISA

- 3 units (4.5 Flinders units) - semester 1
- 5 contact hours per week
- Available for Non-Award study
- Prerequisite: Continuers Chinese (at 16 or better) or equiv.
- Assessment: weekly assignments, tests, mid-term & oral tests, exam

The course consists of tuition in speaking, listening to, writing and reading modern standard Chinese. Chinese ISA extends students' knowledge of basic grammar, vocabulary and structures found in the spoken and written form of Chinese today. The main emphasis is on building up students' communicative skills in both speaking and reading through learning activities in class. It is anticipated that by the end of the courses the student will know about 900 Chinese characters and associated compounds related to contemporary China.

CHIN 1012
Chinese ISB

- 3 units (4.5 Flinders units) - semester 2
- 5 contact hours per week
- Available for Non-Award study
- Prerequisite: CHIN 1011 Chinese ISA (Pass Div 1) or equiv.
- Assessment: weekly assignments, tests, mid-term & oral tests, exam

This course consists of tuition in the speaking, listening to, writing and reading of modern standard Chinese. The main emphasis is on building up vocabulary and reading experience as a basis for studying contemporary Chinese society and culture. It is anticipated that by the end of the course, the student will know around 1200 Chinese characters.

Level II

CHIN 2001
Chinese IIA

- 4 units (6 Flinders units) - semester 1
- Flinders students should enrol in CHIN 2001FL
- 5 contact hours per week
- Prerequisite: CHIN 1002 Chinese IB (Pass Div 1) or equiv.
- Assessment: weekly assignments, tests, mid-term & oral tests, exam

The course consists of tuition in speaking, listening to, writing and reading modern standard Chinese. Chinese IIA extends students' knowledge of basic grammar, vocabulary and structures found in the spoken and written form of Chinese today. The main emphasis is on building up students' communicative skills in both speaking and reading through learning activities in class. It is anticipated that by the end of the courses the student will know about 900 Chinese characters and associated compounds related to contemporary China.

CHIN 2002
Chinese IIB

- 4 units (6 Flinders units) - semester 2
- Flinders students should enrol in CHIN 2002FL
- 5 contact hours per week
- Prerequisite: CHIN 2001 Chinese IIA (Pass Div 1) or equiv.
- Assessment: weekly assignments, tests, mid-term & oral tests, exam

This course consists of tuition in the speaking, listening to, writing and reading of modern standard Chinese. The main emphasis is on building up vocabulary and reading experience as a basis for studying contemporary Chinese society and culture. It is anticipated that by the end of the course, the student will know around 1200 Chinese characters.

CHIN 2003
Chinese for Chinese Speakers IIA

- 4 units - semester 1
- 3 contact hours per week
- Assessment: continuous assessment, tests, exam

The course is designed for students who speak Chinese (including Chinese dialects) at home and have studied Chinese in primary/secondary schools overseas in China, Taiwan, Hong Kong, Singapore and Malaysia and for those who have acquired an equivalent standard of linguistic skills in Chinese. It aims to extend students' linguistic skills and knowledge of modern standard Mandarin Chinese. It consists of tuition in oral, reading, writing and translation practice. The emphasis is on improving the students' pronunciation through the mastery of the Pinyin phonetic system.

CHIN 2004
Chinese for Chinese Speakers IIB

- 4 units - semester 2
- 3 contact hours per week
- Prerequisite: CHIN 2003 Chinese for Chinese Speakers IIA (Pass Div. 1) or equivalent
- Assessment: continuous assessment, tests, exam

The course assumes knowledge and linguistic skills equivalent to Chinese for Chinese Speakers IIA (Pass Div 1). It consists of tuition in oral, reading, writing and translation practice. Students will be taught the basic skills in writing academic essays.

CHIN 2005
Chinese Studies In-Country

- 12 units - semester 1 or 2
- full-time in-country study for 5 months
- Prerequisite: CHIN 1002 Chinese IB or CHIN 2001 Chinese IIA (Pass Div. 1) or equivalent

This course consists of five months full-time study in a designated university or college in China. The program will be defined by the Chinese Discipline and consist of intensive intermediate level language work, social and cultural studies electives and a special project. The language program and electives will be taught and assessed by staff in China, with supplementary assessment and adjustment by staff in the Chinese Discipline. The special project will consist of a major essay project in English, which is set and marked by Chinese Discipline staff and completed while in-country.

CHIN 2011
Chinese IISA

- 4 units (6 Flinders units) - semester 1
- 5 contact hours per week
- Prerequisite: CHIN 1012 Chinese ISB (Pass Div 1) or equiv.
- Assessment: oral & written tests, translations, composition short essays, exam

This course aims to consolidate and extend the language skills developed at Chinese IS level by means of further oral, reading, writing and translation practice. The emphasis is on the application of the student's language training to the study of Chinese source materials reflecting contemporary Chinese culture and society. It is expected that by the end of the semester students should be able to read original texts in modern Chinese using reference materials, should have an active vocabulary of around 1600 Chinese characters and should be able to discuss the content of the materials studied in Chinese.

CHIN 2012
Chinese IISB

- 4 units (6 Flinders units) - semester 2
- 5 contact hours per week
- Prerequisite: CHIN 2011 Chinese IISA (Pass Div 1) or equiv.
- Assessment: oral tests, translations. exams, composition & short essays on background to materials studied

This course is a continuation of CHIN 2011 Chinese IISA. This course aims to consolidate and extend the language skills developed by means of further oral, reading, writing and translation practice. The emphasis is on the application of the student's language training to the study of Chinese source materials reflecting contemporary Chinese culture and society. It is expected that by the end of the semester students will have continued their linguistics skills and gained further training in reading modern literary and journalistic styles. The texts studied will include: contemporary short stories, documentary materials and selected texts dealing with topics related to Chinese society and culture. By the end of the semester students should be able to read original texts in modern Chinese with the aid of reference materials, should have an active vocabulary of around 2000 Chinese characters and should be able to discuss the content of the materials studied in Chinese.

Level III

CHIN 3001
Chinese IIIA

- 6 units (also 6 Flinders units) - semester 1
- Flinders students should enrol in CHIN 3001FL
- 5 contact hours per week
- Prerequisite: CHIN 2002 Chinese IIB (Pass Div 1) or equiv.
- Assessment: oral & written tests, translations, composition short essays, exam

This course aims to consolidate and extend the language skills developed at second year level by means of further oral, reading, writing and translation practice. The emphasis is on the application of the student's language training to the study of Chinese source materials reflecting contemporary Chinese culture and society. It is expected that by the end of the semester students should be able to read original texts in modern Chinese using reference materials, should have an active vocabulary of around 1600 Chinese characters and should be able to discuss the content of the materials studied in Chinese.

CHIN 3002
Chinese IIIB

- 6 units (Flinders 6 units) - semester 2
- Flinders students should enrol in CHIN 3002FL
- 5 contact hours per week
- Prerequisite: CHIN 3001 Chinese IIIA (Pass Div 1) or equiv.
- Assessment: oral tests, translations, composition & short essays on background to materials studied and exam

This course is a continuation of CHIN 3001 Chinese IIIA. This course aims to consolidate and extend the language skills developed in Chinese IIIA by means of further oral, reading, writing and translation practice. The emphasis is on the application of the student's language training to the study of Chinese source materials reflecting contemporary Chinese culture and society. It is expected that by the end of the semester students will have continued their linguistics skills and gained further training in reading modern literary and journalistic styles. The texts studied will include: contemporary short stories, documentary materials and selected texts dealing with topics related to Chinese society

and culture. By the end of the semester students should be able to read original texts in modern Chinese with the aid of reference materials, should have an active vocabulary of around 2000 Chinese characters and should be able to discuss the content of the materials studied in Chinese.

CHIN 3003
Chinese for Chinese Speakers IIIA

- 6 units - semester 1
- 2 lectures, 1 conversation tutorial per week
- Prerequisite: CHIN 2004 Chinese for Chinese Speakers IIB (Pass Div. 1) or equivalent
- Assessment: oral tests, translations, composition, short essays, exam

This courses aims to consolidate and extend the language skills developed in CHIN 2004 Chinese for Chinese Speakers IIB by means of further oral, reading, writing and translation practice. The emphasis will be on the application of the student's language training to the study of Chinese source materials reflecting Chinese culture and society. The texts studied will include short stories, documentary materials and selected texts from the Internet dealing with topics related to Chinese society and culture.

CHIN 3004
Chinese for Chinese Speakers IIIB

- 6 units - semester 2
- 2 lectures, 1 conversation tutorial per week
- Prerequisite: CHIN 3002 Chinese for Chinese Speakers IIIA (Pass Div. 1) or equivalent
- Assessment: oral tests, translations, composition, short essays on the background to materials studied, exam

This course aims to consolidate and extend the language skills developed in CHIN 3003 Chinese for Chinese Speakers IIIA by means of further oral, reading, writing and translation practice. The emphasis will be on the application of the student's language training to the study of Chinese source materials reflecting Chinese culture and society. The texts studied will include short stories, documentary materials and selected texts from the Internet dealing with topics related to Chinese society and culture.

CHIN 3005
Chinese Studies In-Country

- 12 units - semester 1 or 2
- fulltime in-country study for 5 months
- Prerequisite: CHIN 2002 Chinese IIB or CHIN 3001 Chinese IIIA (Pass Div. 1) or equivalent

This course consists of five months fulltime study in a designated university or college in China. The program will be defined by the Chinese Discipline and consists of intensive intermediate level language work, social and cultural studies electives and a special project. The language program and electives will be taught and assessed by staff in China, with supplementary assessment and adjustment by staff in the Chinese Discipline. The special project will consist of a major essay project in English, which is set and marked by the Chinese Discipline staff and completed while in-country.

CHIN 3011
Advanced Chinese A

- 6 units (also 6 Flinders units) - semester 1
- Flinders students should enrol in CHIN 3011FL
- 3 hours supervised and 2 hours unsupervised
- Prerequisite: CHIN 2012 Chinese IISB (Pass Div 1) or equiv.
- Assessment: continuous, final exam

This course is an advanced program in Chinese language and traditional studies. Students will also read a selection of modern Chinese documents and literature. By the end of the course, students will be familiar with a range of written styles. Throughout the course, emphasis will also be placed on oral/aural skills and the ability to analyse the materials studied using oral Chinese.

CHIN 3012
Advanced Chinese B

- 6 units (also 6 Flinders units) - semester 2
- Flinders students should enrol CHIN 3012FL
- 3 hours supervised and 2 hours unsupervised
- Prerequisite: CHIN 3011 Advanced Chinese IIIA (Pass Div 1) or equiv
- Assessment: continuous, final exam

This course is a continuation of CHIN 3011 Advanced Chinese A. Students will also read a selection of modern and traditional Chinese documents and literature. By the end of the course students will be familiar with a range of written styles. Throughout the course, emphasis will also be placed on oral/aural skills and the ability to analyse the materials studied using oral Chinese.

Classical Studies

Level I

CLAS 1001
Classics: From Egypt to Ancient Greece

- 3 units - semester 1
- 2 lectures, 1 tutorial per week
- Available for Non-Award study
- Restriction: Classics: From Egypt to Rome
- Assessment: 2 x 1200 word tutorial papers 60%, 2 hour exam 40%

This course is designed to be the first part of an introduction to the ancient world. Students will be introduced to the literature and material remains of the distant past. The lectures will deal with Egypt, Mesopotamia, Syro-Palestine, Minoan Crete, Mycenaean Greece, Persia and early Greek states.

CLAS 1002
Classics: From Ancient Greece to Rome

- 3 units - semester 2
- 2 lectures, 1 tutorial per week
- Available for Non-Award study
- Restriction: Classics: From Egypt to Rome
- Assessment: 2 x 1200 word tutorial papers 60%, 2 hour exam 40%

This course is designed to be the second part of an introduction to the ancient world but can be taken on its own, without having done the first part. Classes will deal with the literature and material remains of Ancient Greece and Rome.

Level II

CLAS 2003
Science, Technology and Medicine in Antiquity

- 4 units - semester 2
- 2 lectures, 1 tutorial a week
- Prerequisite: 6 units Level I Humanities/Social Sciences
- Assessment: 2 x 1600 word essays 40%, either 2500 word academic journal or a 2 hour exam 40%, seminar/tutorial contribution - short presentation, tute summaries - 20%

The focus of the course is the beginnings of western science, including medicine. It highlights important contributions to the fields of science, technology and medicine, from the Ionian Greeks (ca 600 BC) down to the late Roman empire (ca AD 300) in a non-technical way. It looks at the material and intellectual conditions for contributions made in these areas, and general issues such as their lasting legacy, pseudo-science, attitudes towards technology, the relation between theory and practice.

CLAS 2005
Egypt, Greece and the Aegean: Archaeology

- 4 units - semester 1
- 2 lectures, 1 tutorial a week
- Prerequisite: 6 units Level I Humanities/Social Science
- Restriction: not available to students who have completed previous Classical or Greek Archaeology, Art or Architecture courses offered by the University
- Assessment: 2 hour exam 30%, slide test 15%, 2 x 1300 word seminar papers 30%, 3000 word essay 25%

This course will examine the cultural and political interrelationships of Egypt, Mycenaean Greece and those cultures neighbouring the Aegean during the Bronze and early Iron Ages, using archaeological evidence. Special emphasis will be placed on the study of Late Bronze Age Aegean and mainland Greece, the period of Mycenaean culture.

CLAS 2006
Early Mediaeval Europe: A.D. 200-800

- 4 units - semester 2
- 2 lectures, 1 tutorial per week
- Prerequisite: 6 units Level I Humanities/Social Sciences
- Restriction: Medieval Europe II/III
- Assessment: three tutorial papers, 2 hour exam

This course examines a period of transformation, from the barbarian invasions of the old Roman Empire to the 'new' Roman Empire of Western Europe. The intellectual and religious tensions within this period will be studied especially the role of the Church in the society as well as its material culture and socio-economic and political structures. Regions surveyed will include the Frankish, Anglo-Saxon, and Lombardic Italian kingdoms.

CLAS 2014
Pamphylia in Antiquity: In-Country Studies

- 4 units - semester 2
- Prerequisite: 6 units Level I Humanities/Social Sciences
- Assessment: 5000-6000 word research project

This summer school, to be held in Southern Turkey in July, is designed to give students the opportunity to study the Hellenistic and Roman settlement of Pamphylia in the field. The course will deal with the history and archaeology of the region, including the architectural and art history (the cities are so well preserved here that students can have first hand experience of most aspects of Greco-Roman culture). Students will be encouraged to reconstruct the Greek and Roman way of life. Further details available from the School.

CLAS 2016
Roman Imperial History A.D. 14-192

- 4 units - semester 2
- 2 lectures, 1 tutorial a week, for first eight weeks, lecture, 2 hour tutorials for last 4 weeks
- Prerequisite: 6 units Level I Humanities/Social Sciences
- Assessment: 2 hour exam *or* 2500 word academic journal 40%, 2 x 1300 word tutorial papers 42%, tutorial summaries 18%

This course covers the political and social history of Rome from Tiberius to Commodus. The last four weeks of the semester will be devoted to a special topic: slavery and the Roman family.

CLAS 2017

Roman Republican History 133 B.C. - A.D. 14

- 4 units - semester 1
- 2 lectures, 1 tutorial a week
- Prerequisite: 6 units Level I Humanities/Social Sciences
- Assessment: 2 hour exam *or* 2200 word academic journal 40%, 3 x 1200 word tutorial papers each 20%

This course considers the fall of the Roman Republic and the transition from Republican government to Imperial rule.

CLAS 2020

Afterlife and Underworld in Antiquity

- 4 units - semester 1
- 1 lecture, two-hour seminar per week
- Prerequisite: 6 units Level I Humanities/Social Sciences
- Assessment: 2 hour exam *or* academic journal 40%, seminar paper 20%, worksheet 20%, seminar contribution 20%

The focus of this course is on the myths and rituals dealing with the process of death and the passage to the afterlife, from pharaonic Egypt to Christian Rome. It deals with popular beliefs about and philosophical ideas on death and dying, and the prospects and nature of an afterlife, in an underworld or elsewhere. A recurrent issue is the relationship between the quality of life lived and that of subsequent existence. What sort of rewards and punishments were obtained? Drawing on ancient literary and material evidence, and making some use of modern cinematic treatments, the course deals with topics such as funeral rites, burial customs, epitaphs, shamanism, reincarnation, martyrdom, mystery ceremonies that promised immortality to initiates, mummification and maltreatment of corpses.

CLAS 2021

Eastern Mediterranean Archaeological Field School

- 4 units - summer semester
- Quota will apply
- Students participate in excavation so must be physically able to undertake assessable tasks of excavation, recording & planning; students work as a group & individually and are responsible for costs of participation (contact Classics for details)
- Prerequisite: 6 units level I Humanities/Social Science, Level II Classical Archaeology or equiv. course (subject to approval of Course Coordinator)
- Assessment: 3 practical tests 30%, written group report 50%, short critique 10%, individual database catalogue work 10%

Students will develop basic skills in trench recording, excavation and site-interpretation during a 4 week overseas archaeological field-school in the Eastern Mediterranean. Basic techniques in surveying, planning, section-drawing, site photography, context recording and basic Harris matrix will all be taught and assessed. From a secure dig-house on a Romano-Byzantine archaeological site in the Hashemite Kingdom of Jordan, students will become familiar through first-hand experience of the range of material culture within this formerly wealthy and culturally diverse Roman province, and will visit well-preserved cities such as Jerash and Gadara.

Level III

CLAS 3003

Science, Technology and Medicine in Antiquity

- 4 units - semester 2
- 2 lectures, 1 tutorial per week
- Prerequisite: 8 units Level II Humanities/Social Sciences
- Assessment: 2 x 1800 words essays 30%, either 3500 word academic journal or two hour exam 40%, two seminar/tutorial contributions - short presentation, tute summaries - 30%

The focus of the course is the beginnings of western science, including medicine. It highlights important contributions to the fields of science, technology and medicine, from the Ionian Greeks (ca 600 BC) down to the late Roman empire (ca AD 300) in a non-technical way. It looks at the material and intellectual conditions for contributions made in these areas, and general issues such as their lasting legacy, pseudo-science, attitudes towards technology, the relation between theory and practice.

CLAS 3005

Egypt, Greece and the Aegean: Archaeology

- 6 units - semester 1
- 2 lectures, 1 tutorial a week
- Prerequisite: 8 units Level II Humanities/Social Sciences
- Restriction: not available to students who have completed previous Classical or Greek Archaeology, Art or Architecture courses offered by the University
- Assessment: 2 hour exam 30%, slide test 15%, 2 x 1300 word seminar papers 30%, 3000 word essay 25%

This course will examine the cultural and political interrelationships of Egypt, Mycenaean Greece and those cultures neighbouring the Aegean during the Bronze and early Iron Ages, using archaeological evidence. Special emphasis will be placed on the study of late Bronze Age Aegean and mainland Greece, the period of Mycenaean culture.

CLAS 3006

Early Mediaeval Europe: A.D. 200-800

- 6 units - semester 2
- 2 lectures, 1 tutorial per week
- Prerequisite: 8 units Level II Humanities/Social Sciences
- Restriction: Medieval Europe II/III

- Assessment: 2 hour exam 40%, 2 x 1300 word seminar papers 30%, 3000 word essay 30%

This course examines a period of transformation from the barbarian invasions of the old Roman Empire to the 'new' Roman Empire of Western Europe. The intellectual and religious tensions within this period will be studied especially the role of the Church in society as well as its material culture and socio-economic and political structures. Regions surveyed will include the Frankish, Anglo-Saxon, and Lombardic Italian Kingdoms.

CLAS 3014

Pamphylia in Antiquity: In-Country Studies

- 6 units - semester 2
- Prerequisite: 8 units Level II Humanities/Social Sciences
- Assessment: approx. 8000 word research project

This summer school (to be held in Southern Turkey in July) is designed to give students the opportunity to study the Hellenistic and Roman settlement of Pamphylia in the field. The course will deal with the history and archaeology of the region, including the architectural and art history (the cities are so well preserved here that students can have first hand experience of most aspects of Greco-Roman culture). Students will be encouraged to reconstruct the Greek and Roman way of life.

CLAS 3016

Roman Imperial History A.D. 14-192

- 4 units - semester 2
- 2 lectures, 1 tutorial a week, for first eight weeks; 1 lecture, 2 hour tutorials for last 4 weeks
- Prerequisite: 8 units Level II Humanities/Social Sciences
- Assessment: 2 hour exam *or* 3300 word academic journal 40%, 3 x 1600 word tutorial papers 44%, tutorial summaries 16%

This course covers the political and social history of Rome from Tiberius to Commodus. The last four weeks of the semester will be devoted to a special topic: slavery and the Roman family.

CLAS 3017

Roman Republican History 133 B.C. - A.D. 14

- 6 units - semester 1
- 2 lectures, 1 tutorial per week
- Prerequisite: 8 units Level II Humanities/Social Sciences
- Assessment: 2 hour exam *or* 3300 word academic journal 40%, 2 x 1200 word tutorial paper each 15%, long essay 30%

This course considers the fall of the Roman Republic and the transition from Republican government to Imperial rule.

CLAS 3020

Afterlife and Underworld in Antiquity

- 6 units - semester 1
- 1 lecture, two hour seminar per week
- Prerequisite: 8 units Level II Humanities/Social Sciences
- Assessment: 2 hour exam *or* academic journal 40%, 2 seminar papers each 15%, worksheet 15%, seminar contribution 15%

The focus of this course is on the myths and rituals dealing with the process of death and the passage to the afterlife, from pharaonic Egypt to Christian Rome. It deals with popular beliefs about and philosophical ideas on death and dying, and the prospects and nature of an afterlife, in an underworld or elsewhere. A recurrent issue is the relationship between the quality of life lived and that of subsequent existence. What sort of rewards and punishments were obtained? Drawing on ancient literary and material evidence, and making some use of modern cinematic treatments, the course deals with topics such as funeral rites, burial customs, epitaphs, shamanism, reincarnation, martyrdom, mystery ceremonies that promised immortality to initiates, mummification and maltreatment of corpses.

CLAS 3021

Eastern Mediterranean Archaeological Field School

- 6 units - summer semester
- Quota will apply
- Students participate in excavation so must be physically able to undertake assessable tasks of excavation, recording & planning; students work as a group & individually and are responsible for costs of participation (contact Classics for details)
- Prerequisite: 8 units level II Humanities/Social Sciences including Level II Classical Archaeology or equiv. course (subject to approval of Course Coordinator)
- Assessment: 3 practical tests 30%, written group report 40%, short critique 5%, site diary 5%, individual database catalogue work 5%, 2500 word essay 15%

Students will develop basic skills in trench recording, excavation and site-interpretation during a 4 week overseas archaeological field-school in the Eastern Mediterranean. Basic techniques in surveying, planning, section-drawing, site photography, context recording and basic Harris matrix will all be taught and assessed. From a secure dig-house on a Romano-Byzantine archaeological site in the Hashemite Kingdom of Jordan, students will become familiar through first-hand experience of the range of material culture within this formerly wealthy and culturally diverse Roman province, and will visit well-preserved cities such as Jerash and Gadara.

Honours

CLAS 4401

Honours Classical Studies

- 24 units - full year
- Prerequisite: UG degree with credit average or better in courses contributing to major in Classical Studies or equiv. approved by Head of Discipline, usually successful completion of at least one year's study in Ancient Greek and/or Latin - variations to be approved by Head of Discipline
- Students wishing to take Honours Classical Studies should consult the Honours Coordinator prior to commencing Level II to ensure appropriate course choices are made in preparation for Honours
- Assessment: coursework totalling 12 000 (2 topics), 20 000 word thesis in second semester

There are three components within the Classical Studies Honours course, two of which are to be taken in first semester, the third in second semester. Two seminar courses must be taken in first semester. Choices of course topics will vary from year to year within the discipline - consult with the Head of Discipline for details. Each seminar course will require written work of approximately 6000 words in total per course. A research project or dissertation will be undertaken in second semester. The exact arrangement of the course may be varied by the Head of the Discipline in accordance with the interests of the students and the availability of specialised teaching.

Students are strongly advised that any higher degree work in the area of ancient history, archaeology or philosophy or related areas of ancient culture will require at the very least a basic expertise in one or more ancient languages, as well as a reading knowledge of French, German and/or Italian. It is in the student's own interests to incorporate one or more of these languages into his or her undergraduate degree. In some circumstances Honours Classical Studies can be studied part-time over two years or can be combined with Honours in another discipline.

Commerce

Honours

COMMERCE 4000

Honours Commerce

- 24 units - full year
- Detailed arrangements for classes will depend on enrolments and students are advised to communicate with the Head of School well before the beginning of the academic year - students will be admitted to Honours classes only with approval of the Head
- Eligibility: approved Commerce Honours students only
- Assessment: research project, presentation of thesis of approx. 10000 words 50% - thesis will form part of Honours examination

A supervisor will be allocated to each student based on the topic or research area of interest. Late in the first semester students will be expected to outline their thesis objective and proposed approach to a meeting of a small number of staff.

The thesis is to be completed and presented by the end of lectures in second semester. Four copies, typed double spaced on A4 paper and bound must be presented. Students will be expected to present themselves for an oral examination on their thesis at a date towards the end of the University's November examination period.

Each student is required to undertake four first semester modules based on their research area of choice, as follows: Research Methodology; Quantitative Methods in Business; Contemporary Theoretical Issues in Commerce.

The Fourth module will be in the discipline area of the student's thesis topic and may include:

Advanced Accounting Theory

Advanced Finance Theory

Information Theory

Management and Organisation Theory

Strategic Marketing

Management Accounting Theory

Issues in Tax and Commercial Law.

Commercial Law

Level I

COMMLAW 1004

Commercial Law I(S)

- 3 units - semester 2
- 2 lectures, 1 tutorial per week
- Available for Non-Award study
- Quota may apply
- Assessment: exam, assignments as determined at first lecture

An introduction to the legal system including the roles of the Constitution, parliaments and courts. An introduction to the basic rules of commercial law including breach of contract, the tort of negligence, liability for unsafe products, misleading conduct and unconscionable conduct.

Level II

COMMLAW 2000

Commercial Law II

- 4 units - semester 1
- 2 lectures, 2 hour tutorial per week
- Available for Non-Award study
- Assumed Knowledge: COMMLAW 1004 Commercial Law I(S)
- Assessment: exam, assignment as determined at first lecture

An examination of the law relating to business structures including sole traders, partnerships, joint ventures and trusts. The majority of the course is devoted to an examination of corporations law in Australia including the following topics: the constitutional background and history of companies legislation, the concept of corporate personality, the distinguishing features of different types of companies, authority of agents to bind the company, pre-registration contracts, company capital, management of the company, company financial reporting, auditors and directors duties, members' rights, voluntary administration, receivers, winding up of companies.

Level III

COMMLAW 3010

Income Tax Law III

- 4 units - semester 1
- 2 x 1 hour lectures, 1 x 2 hour tutorial per week
- Available for Non-Award study
- Assumed Knowledge: COMMLAW 2000 Commercial Law II or LAW 2004 Corporate Law
- Assessment: exam, assignments as determined at first lecture

This course provides an introduction to, and overview of, fundamental concepts of income tax law. Topics include jurisdiction to tax; assessable income, including capital gains and losses; non-assessable income; deductions; tax accounting; tax entities; anti-avoidance; and tax administration.

Computer Science

Level I

COMP SCI 1003

Internet Computing

- 3 units - semester 2
- 3 lectures, 3 hours practical per week, 1 tutorial per fortnight
- Assessment: written exam, compulsory projects

Internet Architecture: Decentralisation, Tolerance, End-to-end Argument, Unambiguous Human-readable Naming, Packet Switching. Web Architecture: Least Power, Independent Invention, Evolvability, REST. Protocols: TCP/IP, SMTP, FTP, HTTP. Naming: DNS and URLs. Data Formats: HTML, XML, XML-Schema. Meta-data and the Semantic Web. Trust. Practicals: Web Programming using PHP.

COMP SCI 1007

Computer Science Concepts

- 3 units - summer semester (late January), repeated mid-June
- Eligibility: available as a bridging course to approved students only
- Assessment: written exam; compulsory projects

Programming in Java: variables, control structures, methods, classes, input/output; object orientation, interfaces, inheritance; introduction to graphical user interfaces. Introduction to computer systems, system software and basic Unix.

COMP SCI 1008

Computer Science IA

- 3 units - semester 1 or 2
- 3 lectures, 3 hours practical work per week, 1 tutorial per fortnight
- Available for Non-Award study - limits may apply
- Assumed Knowledge: SACE Stage 2 Mathematical Studies
- Restriction: cannot be counted with COMP SCI 1004 Computer Literacy I, COMP SCI 1000 Engineering Programming IE, or PURE MTH 1002 Quantitative Methods Using Computers I
- Assessment: written exam, compulsory practical exams during the semester, compulsory projects

Programming via the Java language: variables, types, control structures (selection, iteration), principles of data abstraction, objects (classes, methods, inheritance, interfaces), scope and visibility, input/ output, program design, error detection and debugging, elementary data-structures.

COMP SCI 1009

Computer Science IB

- 3 units - semester 1 or 2
- 3 lectures, 3 hours practical work per week, 1 tutorial per fortnight
- Available for Non-Award study - limits may apply
- Prerequisite: COMP SCI 1008 Computer Science IA (Pass Div 1)
- Restriction: cannot be counted with COMP SCI 1004 Computer Literacy I, COMP SCI 1000 Engineering Programming IE, or PURE MTH 1002 Quantitative Methods Using Computers I
- Assessment: written exam, compulsory projects

Programming via the Java language: recursion, event handling, and graphical user interfaces. Introduction to computer science: numerics, computer architecture, finite state machines, information systems, artificial intelligence, theory of computation, ethics for Information Technology.

Level II

COMP SCI 2000

Computer Systems

- 3 units - semester 2
- 2 lectures, 4 hours practical work a week, 1 tutorial a fortnight
- May be available for Non-Award study - contact School for details
- Prerequisite: COMP SCI 1009 Computer Science IB (Pass Div 1) or Pass in COMP SCI 6003 Computer Science Concepts or Pass in both COMP SCI 1000 Engineering Programming IE, ELEC ENG 1004 Logic Design
- Assumed Knowledge: knowledge of Mathematics such as can be acquired through studies in MATHS 1011/1012 Mathematics IA/IB or MATHS 1008 Mathematics for Information Technology I
- Assessment: written exam, compulsory projects

Instruction sets, assembler programming calling mechanisms, linking/loading, CPU organisation, memory hierarchy, input/output devices, controllers and drivers.

COMP SCI 2002

Database and Information Systems

- 3 units - semester 1
- 2 lectures, 4 hours practical work a week, 1 tutorial a fortnight
- May be available for Non-Award study - contact School for details
- Prerequisite: COMP SCI 1009 Computer Science IB (Pass Div 1) or Pass in COMP SCI 6003 Computer Science Concepts; or Pass in both COMP SCI 1000 Engineering Programming IE and ELEC ENG 1004 Logic Design or, for B.Inf.Sc. students only, 1073 Programming and Applications I
- Assumed Knowledge: knowledge of Mathematics such as can be acquired through studies in MATHS 1011/1012 Mathematics IA/IB, MATHS 1000A/B Mathematics IM or MATHS 1008 Mathematics for Information Technology I
- Restriction: cannot be counted with previously offered Databases and Information Systems
- Assessment: written exam, compulsory projects

Characteristics of secondary storage media, Database algorithms for projection, selection, join, union, intersection, difference updating and grouping illustrated in Cobol. The use of SQL to create query databases. Implementation issues. Integrity and security of data, professional practice.

COMP SCI 2003

Numerical Methods

- 3 units - semester 1
- 2 lectures, 4 hours of practical work a week; 1 tutorial a fortnight
- May be available for Non-Award study - contact School for details
- Prerequisite: COMP SCI 1009 Computer Science IB (Pass Div I), or 7780 Computational Methods I (Pass Div I), or Pass in COMP SCI 6003 Computer Science Concepts; or Pass in both COMP SCI 1000 Engineering Programming IE and ELEC ENG 1004 Logic Design
- Assumed Knowledge: MATHS 1011/1012 Mathematics IA/IB or MATHS 1000A/B Mathematics IM
- Assessment: written exam, compulsory projects

Floating point numbers; representation, subtractive cancellation, machine epsilon. Solution of non-linear equations by fixed point iteration methods. Interpolation and least squares, approximation of functions by polynomial and spline functions. Methods of numerical integration: simple and composite rules. Numerical solution of differential equations.

COMP SCI 2004

Data Structures and Algorithms

- 3 units - semester 1 or 2
- 2 lectures, 4 hours practical work a week; 1 tutorial a fortnight
- May be available for Non-Award study - contact School for details
- Prerequisite: COM P SCI 1009 Computer Science IB (Pass Div I) or Pass in COMP SCI 6003 Computer Science Concepts; or Pass in both COMP SCI 1000 Engineering Programming IE and ELEC ENG 1004 Logic Design
- Assumed Knowledge: knowledge of Mathematics such as can be acquired through studies in MATHS 1011/1012 Mathematics IA/IB, MATHS 1000A/B Mathematics IM or MATHS 1008 Mathematics for Information Technology I
- Assessment: written exam, compulsory projects

Program development techniques including basic ideas of correctness; representation of lists, stacks, queues, sets, hash and tree tables. Notions of complexity and analysis; notion of abstract data type; sets and sequences as examples; searching and information retrieval illustrated with a 'table' abstract data type; various representations of a 'table' abstract data type; recursion.

COMP SCI 2005

Systems Programming in C and C++

- 3 units - semester 2
- 2 lectures, 4 hours practical per week, 1 tutorial per fortnight
- Prerequisite: COMP SCI 1009 Computer Science IB (Pass Div I) or Pass in COMP SCI 6003 Computer Science Concepts; or Pass in both COMP SCI 1000 Engineering Programming IE and ELEC ENG 1004 Logic Design
- Assumed Knowledge: COMP SCI 2004 Data Structures and Algorithms
- Assessment: written exam, compulsory projects

Introduction to C; syntax of functions and basic structure, keywords, expressions. Variables; scoping and lifetime, structures, arrays and pointers. Run time stack; function invocation, parameter passing, passing arrays. Memory; segmentation, dynamic allocation, leaks and buffer over-runs. Compilation process; preprocessor, compiling object code, static and dynamic linking. File I/O; streams, reading and writing files. UNIX tools; design philosophy, combining programs using pipes and I/O redirection. Profiling tools, binary tools, debugging. Basic shell scripting. Build tools. Compiler flags. C++; class syntax, C++ object model, inheritance, virtual and pure virtual functions. Copy and assignment semantics and their consequences. Overloading operators. I/O using the C++ STL. Templates; syntax, use with the STL, default types, run time performance.

COMP SCI 2006

Introduction to Software Engineering

- 3 units - semester 2
- 2 lectures, 4 hours practical work a week; 1 tutorial a fortnight
- May be available for Non-Award study - contact School for details
- Prerequisite: COMP SCI 1009 Computer Science IB (Pass Div I) or Pass in both COMP SCI 1000 Engineering Programming IE, ELEC ENG 1004 Logic Design
- Assumed Knowledge: COMP SCI 2004 Data Structures and Algorithms; knowledge of Mathematics such as can be acquired through studies in MATHS 1011/1012 Mathematics IA/IB or MATHS 1000A/B Mathematics IM or MATHS 1008 Mathematics for Information Technology I
- Assessment: written exam, compulsory projects

Design: software design, UML notation, static models - identifying classes and associations, dynamic models - identifying states, events, transitions, use cases, mapping designs into code. Specification: the scope, role and styles of software specification. Testing: modes of testing, organising test suites. Human issues: managing object-oriented projects, ethics, professional practice.

Level III

COMP SCI 3001

Computer Networks and Applications

- 3 units - semester 2
- 2 lectures, 4 hours of practical work a week
- May be available for Non-Award study - contact School for details
- Prerequisite: COMP SCI 1009 Computer Science IB (Pass Div I) or COMP SCI 6003 Computer Science Concepts or pass in both COMP SCI 1000 Engineering Programming IE, ELEC ENG 1004 Logic Design
- Assessment: written exam, compulsory projects

Introduction to networks and digital communications with a focus on Internet protocols: Network layer model, Internet application protocols, UDP, TCP (reliable transport, congestion and flow control), IP (routing, addressing), Data Link layer operation (Ethernet, 802.11), physical transmission media, selected current topics such as: security, multimedia protocols, Quality of Service, mobility, emerging protocols (IPv6).

COMP SCI 3002

Programming Techniques

- 3 units - semester 1
- 2 lectures, 4 hours practical work a week
- May be available for Non-Award study - contact School for details
- Prerequisite: COMP SCI 1009 Computer Science IB (Pass Div.1) or Pass in COMP SCI 6003 Computer Science Concepts or Pass in both COMP SCI 1000 Engineering Programming IE, ELEC ENG 1004 Logic Design
- Assumed Knowledge: COMP SCI 2004 Data Structures and Algorithms
- Restriction: cannot be counted with 1006 Programming and Data Structures B
- Assessment: written exam, compulsory projects

Program development: methods of specification, design, implementations, testing and debugging, case studies, design patterns, Graphs: construction, traversal, topological sorting, application. Sorting and searching: internal and external algorithms, correctness and complexity analysis.

COMP SCI 3003

Knowledge Representation

- 3 units - not offered in 2005
- 2 lectures, 4 hours practical work a week, tutorial/ homework exercises every 3 weeks
- May be available for Non-Award study - contact School for details
- Prerequisite: COMP SCI 1009 Computer Science B (Pass Div.1) or Pass in COMP SCI 6003 Computer Science Concepts or Pass in both COMP SCI 1000 Engineering Programming IE, ELEC ENG 1004 Logic Design
- Assumed Knowledge: COMP SCI 2004 Data Structures and Algorithms
- Assessment: written exam, compulsory projects

Intelligent Agents: agents that reason logically, knowledge acquisition, agents that use statistics, Bayesian networks, fuzzy logic; Expert Systems: rule-based systems, conflict resolution, explanations; Knowledge Representation: frames, predicate logic, inheritance, semantic nets, belief maintenance.

COMP SCI 3004
Operating Systems

- 3 units - semester 2
- 2 lectures, 4 hours practical work a week, tutorial/ homework exercises every 3 weeks
- May be available for Non-Award study - contact School for details
- Prerequisite: COMP SCI 1009 Computer Science IB (Pass Div 1) or Pass in COMP SCI 6003 Computer Science Concepts or Pass in both COMP SCI 1000 Engineering Programming IE, ELEC ENG 1004 Logic Design
- Assumed Knowledge: COMP SCI 2000 Computer Systems and COMP SCI 2004 Data Structures and Algorithms
- Assessment: written exam, compulsory projects

OS purposes: resource management and the extended virtual computer; historical development. Processes: critical sections and mutual exclusion, semaphores, monitors, classical problems, deadlock; process scheduling. Input and Output: hardware and software control. Memory management: multi-programming; swapping; virtual memory, paging and symbolic segmentation; File System: operations, implementation, performance. Protection mechanisms: protection domains, access lists, capability systems, principle of minimum privilege. Distributed systems: communication, RPC, synchronisation, distributed file systems, authentication.

COMP SCI 3005
Computer Architecture

- 3 units - semester 1
- 2 lectures, 4 hours practical work a week, tutorial/ homework exercises every 3 weeks
- May be available for Non-Award study - contact School for details
- Prerequisite: COMP SCI 1009 Computer Science IB (Pass Div 1) or Pass in COMP SCI 6003 Computer Science Concepts or Pass in both COMP SCI 1000 Engineering Programming IE, ELEC ENG 1004 Logic Design
- Assumed Knowledge: COMP SCI 2000 Computer Systems and COMP SCI 6005 Data Structures and Algorithms
- Assessment: written exam, compulsory projects

Fundamentals of computer design; quantifying cost and performance; instruction set architecture; program behaviour and measurement of instruction set use; processor datapaths and control; pipelining, handling pipeline hazards; memory hierarchies and performance; I/O devices, controllers and drivers; I/O and system performance.

COMP SCI 3006
Software Engineering and Project

- 3 units - semester 2
- 2 lectures, 4 hours practical work a week, weekly project meeting
- May be available for Non-Award study - contact School for details
- Prerequisite: COMP SCI 1009 Computer Science IB (Pass Div 1) or Pass in COMP SCI 6003 Computer Science Concepts or Pass in both COMP SCI 1000 Engineering Programming IE, ELEC ENG 1004 Logic Design
- Assumed Knowledge: COMP SCI 3002 Programming Techniques, COMP SCI 2004 Data Structures and Algorithms
- Assessment: written exam, compulsory group project

This course in software engineering provides an introduction to the production of high quality software solutions to large tasks. Among the topics covered in this course are the following: models of the software life-cycle, requirements analysis and specification, program design techniques and paradigms, software specification techniques, configuration management and version control, quality assurance, integration and testing, project management, risk analysis, case study of ethical considerations in Software Engineering.

COMP SCI 3007
Artificial Intelligence

- 3 units - semester 1
- 2 lectures, 4 hours practical work a week
- May be available for Non-Award study - contact School for details
- Prerequisite: COMP SCI 1009 Computer Science IB (Pass Div 1) or Pass in COMP SCI 6003 Computer Science Concepts or Pass in both COMP SCI 1000 Engineering Programming IE, ELEC ENG 1004 Logic Design
- Assumed Knowledge: COMP SCI 2004 Data Structures and Algorithms
- Assessment: written exam, compulsory projects

AI methodology and fundamentals: philosophy of AI, representation techniques, goal reduction. Search techniques: hill-climbing, beam, best-first, A*, game playing techniques with minimax and alpha-beta pruning. Learning: Winston's methods, neural networks. Rule based systems; forward and backward chaining methods. AI systems: ANALOGY, MYCIN, GPS, Xcon. Fuzzy systems. Computer vision, evolutionary algorithms: genetic algorithms, evolution strategies, genetic programming.

COMP SCI 3008
Systems Analysis and Project

- 3 units - not offered in 2005
- 2 lectures, 4 hours practical work per week, tutorial/ homework exercises every 3 weeks
- May be available for Non-Award study - contact School for details

- Prerequisite: COMP SCI 1009 Computer Science IB (Pass Div 1) or Pass in COMP SCI 6003 Computer Science Concepts or Pass in both COMP SCI 1000 Engineering Programming IE, ELEC ENG 1004 Logic Design
- Assumed Knowledge: COMP SCI 2004 Data Structures and Algorithms
- Restriction: cannot be counted with 1116 Systems Analysis
- Assessment: written exam, compulsory project

Systems Analysis concerns designing computer systems that are useful and productive and satisfy the needs of users who are not computer literate. The course covers the following topics: applying psychological principles to the design of user interfaces, menus and dialogs; using discounted cash flow techniques to test whether a project is financially viable; designing databases that best model real world situations; modelling real world events as database transactions and histories; using design methodologies to decompose large systems into simple parts; techniques for making design decisions that optimise system performance.

The course includes a project, which is to build a prototype database and user interface, starting from informal specification by a client.

COMP SCI 3009

Advanced Programming Paradigms

- 3 units - semester 1
- 2 lectures, 4 hours practical work a week, tutorial/ homework exercises every 3 weeks
- May be available for Non-Award study - contact School for details
- Prerequisite: COMP SCI 1009 Computer Science IB (Pass Div 1) or Pass in COMP SCI 6003 Computer Science Concepts or Pass in both COMP SCI 1000 Engineering Programming IE, ELEC ENG 1004 Logic Design
- Assumed Knowledge: COMP SCI 2004 Data Structures and Algorithms, and COMP SCI 2001 Programming Paradigms
- Assessment: written exam, compulsory projects

A selection of topics from the following: advanced functional programming: polymorphic recursive functions; higher-order functions; software prototyping; programming in Scheme (a dialect of Lisp); streams and networks of processes; lazy and strict evaluation; coroutines in functional and imperative paradigms. Parallelism and concurrency. Object Oriented parallel and concurrent programming in Java. Issues of mutual exclusion and liveness; communication using message passing and shared memory, and data parallelism. An introduction to grid computing.

COMP SCI 3010

Numerical Analysis

- 3 units - not offered in 2005
- 2 lectures, 4 hours practical work a week, tutorial/ homework exercises every 3 weeks
- May be available for Non-Award study - contact School for details
- Prerequisite: COMP SCI 1009 Computer Science IB (Pass Div 1) or Pass in COMP SCI 6003 Computer Science Concepts or Pass in both COMP SCI 1000 Engineering Programming IE, ELEC ENG 1004 Logic Design
- Assumed Knowledge: COMP SCI 2003 Numerical Methods
- Assessment: written exam, compulsory projects

This course deals with practical numerical computing techniques for solving problems that typically arise in computer applications, science and engineering. The emphasis is on practical methods and the issues that arise from them with reference to the principles for the engineering of numerical software. Students will learn to use the package Matlab which is used extensively in the course. The symbolic package Maple may also be used, but to a lesser extent. Topics include: condition and stability, analysis of algorithms, solution of linear systems of equations, the singular value decomposition in least squares data fitting and image compression, solution of systems of non-linear equations. Students will be required to undertake a programming project which develops a suite of methods applicable to the numerical solution of scientific problems.

COMP SCI 3011

Compiler Construction and Project

- 3 units - semester 1
- 2 lectures, 4 hours practical work a week
- May be available for Non-Award study - contact School for details
- Prerequisite: COMP SCI 1009 Computer Science I (Pass Div 1) or Pass in COMP SCI 6003 Computer Science Concepts or Pass in both COMP SCI 1000 Engineering Programming IE, ELEC ENG 1004 Logic Design
- Assumed Knowledge: COMP SCI 2000 Computer Systems, COMP SCI 2004 Data Structures and Algorithms, COMP SCI 3002 Programming Techniques
- Assessment: written exam, compulsory project

The structure of compilers: lexical analysis, syntax analysis (top-down and bottom-up techniques), environmental handling, the handling of context-sensitive and context-free errors, type checking and code generation. BNF languages and grammars. This course is closely coupled with the writing of a large, compulsory programming project

COMP SCI 3012

Distributed Systems

- 3 units - semester 2
- 2 lectures, 4 hours practical per week, tutorial/homework exercises every 3 weeks
- May be available for Non-Award study - contact School for details
- Eligibility: not available to students in B.Ma.& Comp.Sc.
- Prerequisite: COMP SCI 1009 Computer Science IB (Pass Div 1) or Pass in COMP SCI 6003 Computer Science Concepts or Pass in both COMP SCI 1000 Engineering Programming IE, ELEC ENG 1004 Logic Design
- Assumed Knowledge: COMP SCI 2000 Computer Systems, COMP SCI 2004 Data Structures and Algorithms, COMP SCI 3001 Computer Networks and Applications; exposure to SQL programming such as would be gained from COMP SCI 2002 Database and Information Systems.
- Assessment: written exam, compulsory projects

A selection of topics from the following: the challenges faced in constructing client/server software: partial system failures, multiple address spaces, absence of a single clock, latency of communication, heterogeneity, absence of a trusted operating system, system management, binding and naming. Techniques for meeting these challenges: RPC and middleware, naming and directory services, distributed transaction processing, 'thin' clients, data replication, cryptographic security, mobile code. Introduction to Java RMI.

COMP SCI 3013

Event-Driven Computing

- 3 units - semester 2
- 2 lectures, 4 hours practical per week
- Prerequisite: COMP SCI 1009 Computer Science IB (Pass Div 1) or Pass in COMP SCI 6003 Computer Science Concepts or Pass in both COMP SCI 1000 Engineering Programming IE, ELEC ENG 1004 Logic Design
- Assumed Knowledge: COMP SCI 2004 Data Structures and Algorithms, COMP SCI 2006 Introduction to Software Engineering
- Assessment: written exam, compulsory projects

Event driven paradigm: Finite State Automata, their behaviour, synchronisation, correspondence with regular expressions. Manifestation as Statecharts, Petri Nets, handling concurrency, differences. Environments and their expected behaviour, state space coverage and relation to testing. Examples of embedded systems.

Building Graphical User Interfaces: Model-View-Controller paradigm. Design Patterns for managing complexity. Building GUIs in Java with the Swing library. Contrast with other GUI toolkits. Ease of use and HCI issues.

Practical project to cover both the use of FSA for control logic and for GUI design.

COMP SCI 3014

Computer Graphics

- 3 units - will first be offered in 2006
- 2 lectures, 4 hours practical per week
- Prerequisite: COMP SCI 1009 Computer Science IB (Pass Div 1) or Pass in COMP SCI 6003 Computer Science Concepts or Pass in both COMP SCI 1000 Engineering Programming IE, ELEC ENG 1004 Logic Design
- Assumed Knowledge: PURE MTH 2000 Discrete Mathematics II or MATHS 1012 Mathematics IB, COMP SCI 2005 Systems Programming in C and C++
- Assessment: written exam, compulsory projects

Light and the human visual system. Colour. Images, quantisation and sampling. Image manipulations. Raster graphics. Coordinate systems and transformations. The viewing frustum. The graphics pipeline and toolkits. Clipping and culling. Visibility. Lighting and shadows. Transparency and blending. Texture mapping. Local shading models. Environment mapping techniques. Multi-pass rendering. Modelling techniques – parametric and hierarchical surfaces. Level of detail. Raytracing. Animation. Particles. Implementation Efficiency.

Honours

COMP SCI 4999

Honours Computer Science

- 24 units - full year
- Students intending to enrol in Honours Computer Science are advised to consult the Head of the School of Computer Science, preferably before enrolling for Level III courses
- 8 lectures, 25 hours practical work a week
- Prerequisite: degree with a major in Computer Science; passes at standard satisfactory to Head of School in a suitable collection of Level II & III courses in School of Mathematical and Computer Sciences - students with a different background at Level II/III may be accepted at the discretion of Head of School
- Assumed Knowledge: various Level II /III Computer Science courses (or 2nd year courses & 3rd year options if completed before 1989) depending on composition of Honours program
- Assessment: performance in six lecture courses, major project which is weighted as four lecture courses

The course will be determined from year to year and will consist mostly of lectures given in the School of Computer Science. Other courses may be included, subject to the approval of the Head of the School. Students will be required to undertake a major computing project, under the guidance of a supervisor.

Corporate Finance

Level II

CORPFIN 2005

Investment Analysis and Valuation II

- 4 units - not offered in 2005
- 2 lectures, 1 tutorial per week
- Assumed Knowledge: FINANCE 1000 International Financial Institutions & Markets I or ECON 1008 Business Data Analysis I or STATS 1000 Statistical Practice I, and ECON 1004 Microeconomics I
- Assessment: assignment, test, exam, as determined at first lecture

This course examines valuation of risky assets in a market context, but also looks at valuation methods for property and non-traded assets, including growth options and minority shareholdings. The roles of forecasting and performance evaluation are also addressed. Cash flow related techniques are also considered.

CORPFIN 2006

Business Finance II

- 4 units - semester 1 & 2
- 2 lectures, 1 tutorial per week
- Available for Non-Award study
- Assumed Knowledge: either ECON 1008 Business Data Analysis I or STATS 1000 Statistical Practice I, ECON 1004 Microeconomics I, either ACCTING 1002 Accounting for Decision Makers I or ACCTING 1005 Accounting Method I
- Assessment: participation 10%, assignment 15%, test 10%, exam 65%

This course examines firm investment and distribution decisions in the context of a capital market and efficiency of market structures. Valuation methods are developed for valuing projects and securities. Simple asset pricing models are introduced for the purpose of determining the cost of capital for use in investment evaluation. Elementary capital structure theorems are presented, in relation to which the dividend decisions are analysed. Dividend imputation system is described. Principles of working capital management are addressed, as is the valuation of leases. The elements of risk management, involving futures and options, are introduced.

Level III

CORPFIN 3008

Corporate Finance Theory III

- 4 units - semester 2
- 2 lectures, 1 tutorial per week
- Available for Non-Award study
- Assumed Knowledge: SACE Stage 2 Mathematical Studies, ACCTING 1002 Accounting for Decision Makers I and ECON 2008 Financial Economics II
- Assessment: assignments, tests, exam, as determined at first lecture

This course looks at issues and controversies in corporate capital structure policy. Topics include preferences for debt or equity as suggested by agency models, pecking order theory and timing models; dividend policy; applications of option pricing theory including real options, convertible securities and executive compensation; initial public offerings; mergers and acquisitions.

CORPFIN 3009

Portfolio Theory and Management III

- 4 units - semester 1
- 2 lectures, 1 tutorial per week
- Available for Non-Award study
- Assumed Knowledge: SACE Stage 2 Mathematical Studies and ECON 2008 Financial Economics II
- Assessment: tests, exam, assignments, as determined at first lecture

This course identifies investment classes available and considers investment mandates in the context of managed funds. The course begins with a review of various methods for pricing risky assets. Asset allocation techniques are then examined for both fixed income and equity portfolios. The course then goes on to analysing issues for measuring portfolio tracking error as well as measuring risk exposure, such as through the use of Value At Risk. The course concludes with a look at performance evaluation and international portfolio management.

CORPFIN 3013

Options, Futures and Risk Management III

- 4 units - semester 2
- 2 lectures, 1 tutorial per week
- Available for Non-Award study
- Assumed Knowledge: SACE Stage 2 Mathematical Studies, Business Finance II and Financial Economics II, knowledge of discrete & continuous compounding, how financial markets operate, stock & bond price valuation procedures, algebra & simple differentiation - students without this background are advised not to enrol in the course
- Assessment: exam, assessment as per course outline

This course examines the function and operation derivative markets serve in finance. To begin, the course identifies relationships that must hold in such markets if there are to be no arbitrage opportunities. The course then covers options pricing using the Binomial and Black-Scholes approach, as well as describing a wide range of futures and options dealing strategies,

along with their applications to hedging and risk management. Currency and fixed-interest derivatives are also considered as well as swaps, options on futures and some alternative exotic options.

CORPFIN 3019

Corporate Investment and Strategy III

- 4 units - semester 1
- 2 lectures, 1 tutorial per week
- Available for Non-Award study
- Assumed Knowledge: SACE Stage 2 Mathematical Studies, ACCTING 1002 Accounting for Decision Makers I and ECON 2008 Financial Economics II
- Assessment: exam, tests, assignments, as determined at first lecture

This course examines techniques and issues in corporate finance with a focus on corporate investment decisions. Topics include stock valuation using free cash flow technique, valuation of growth opportunities, determining sustainable growth rates, estimation of beta using online data, techniques for evaluating international investment proposals, application of option pricing models in a corporate setting, and evaluation of techniques for measuring financial performance.

Dentistry

Level I

DENT 1000HO

First Annual B.D.S. Examination

DENT 1001AHO/BHO

Dental and Health Science I

- 6 units - full year
- 7 hours per week, including problem-based learning sessions, class meetings, learning laboratories & tutorials
- Eligibility: available to BDS students only
- Corequisite: DENT 1002AHO/BHO Dental Clinical Practice I, DENT 1003AHO/BHO Human Biology ID, DENT 1004AHO/BHO General Studies ID
- Assessment: trial test, assignments, short tests, practical exercises, short answer problem based exam

From a patient care focus, this stream introduces students to the oral cavity and practice of dentistry and provides a foundation for understanding the normal structure and function of the oral cavity, patient management and dentistry as a career. By using problem-based learning packages that present a range of practice situations, students begin to develop patient investigation skills and an integrated knowledge base. The stream emphasises the scientific basis of dentistry; introduces new developments and outlines important ethical issues in the health professions; develops individual and group learning skills, describes the normal appearance of oral soft tissues, the morphology and development of the teeth and main features of the masticatory system as a basis for the analysis of patients' oral health and disease; discusses the nature, aetiology and prevention of common dental diseases at both individual and community level; introduces students to behavioural sciences and psychology applied to dentistry; provides exposure to the influences on dental practice and begins an examination of contexts in which dentists work.

Topics include: oral surface features; morphology of the teeth; tooth emergence and calcification; introduction to dental occlusion, radiographic anatomy; nature and distribution of dental diseases; preventive dentistry; fear and anxiety in dentistry; management and motivation of dental patients; dentist-patient communication; behavioural consequences of oral diseases; community dental health issues; dental education and the shaping of the professional; the professional environment; the dentist's role; career pathways; adaptation to change and the possible future for dentistry.

DENT 1002AHO/BHO

Dental Clinical Practice

- 7 hours per week including clinical, practical sessions
- Eligibility: available to BDS students only
- Corequisite: DENT 1001AHO/BHO Dental and Health Science I, DENT 1003AHO/BHO Human Biology ID, DENT 1004AHO/BHO General Studies ID
- Assessment: assignments, clinical & laboratory assessment (self & tutor assessment, journal of reflection, workbooks), station-based semester exams - details in Dental Clinical Practice Workbook

This stream introduces students to the clinical practice of dentistry and provides a foundation for patient management and dentistry as a career. By working through a range of clinical and laboratory based exercises centred on the provision of initial phases of patient care, students have the opportunity to develop clinical skills and knowledge. Students work in a collaborative environment to learn to critically evaluate themselves, and plan and implement strategies for improvement. Learning will be supported by independent study and discussion of findings in class. In particular, DCP I aims to introduce and provide clinical experiences of infection control, ergonomics, occupational health and safety, dental records, preventive dentistry in the management of common dental diseases, development of manual dexterity skills and application of various moisture control methods.

Topics include: introduction to the clinical environment; infection control; ergonomics and occupational health and safety; patient histories and oral soft tissue examination and recording; dental alginate and impressions; radiography: introduction and interpretation; forensic dentistry; hard tissue examination and charting; cariology, toothwear and staining; plaque; dental instruments and

handpieces; preventive dentistry: oral hygiene instructions and oral hygiene products; fluoride, action and application; prophylaxis,; mouthguards and splinting of avulsed teeth; dietary assessment; introduction to anatomy and function of the TMJ; dental materials: introduction to amalgam, composite resin and glass ionomer cement; introduction to diagnosis and treatment planning; structure and physico-chemical properties of teeth; minimal intervention dentistry; rubber dam application fissure sealants; periodontal tissue examination and hand instrumentation.

DENT 1003AHO/BHO
Human Biology ID

- 6 units - full year
- 7 hours per week, including class meetings, laboratory sessions, research-based practical sessions, tutorials
- Eligibility: available to BDS students only
- Corequisite: DENT 1001AHO/BHODental and Health Science I, DENT 1002AHO/BHODental Clinical Practice ID, DENT 1004HO/BHO General Studies ID
- Assessment: tutorials, laboratory exercises written assignments, tests and exams

This stream aims to provide an overview of the biology of the human species including an evolutionary perspective of the vertebrate, especially the human masticatory system. The stream aims to provide students with a basic knowledge of classical and molecular genetics and to indicate where this knowledge is applicable to dentistry, to provide an introduction to cell biology and to the structure of the human body at the gross and microscopic levels, and to provide an integrated coverage of the structure and function of selected body systems. Giving students the pre-requisite knowledge leading to courses taught in subsequent years of the program, and the tools to communicate effectively with other health professionals and scientists.

Topics include: human evolution including evolution of head form, human adaptability, essentials of body chemistry, cell structure and function, tissue histology, heredity and variation, genes and chromosomes, linkage, molecular organisation of chromosomes, genetic structure and variation of human populations, genetic engineering, structure and function of the skeletal and neuromuscular systems, skin and sense organs.

DENT 1004AHO/BHO
General Studies ID

- 4 units - full year
- 3 hours per week
- Eligibility: available to BDS students only
- Corequisite: DENT 1001AHO/BHODental and Health Science I, DENT 1002AHO/BHOdental Clinical Practice I, DENT 1003AHO/BHO Human Biology ID
- Assessment: projects, written reports, tests, assignments & group presentations

This stream includes topics that will be made available to students during first and second years. Aspects of Basic Physics: the basic physics forming the prerequisite knowledge for the major streams in the BDS program; includes X-rays. Aspects of Basic Chemistry: the aspects of basic chemistry forming the prerequisite knowledge for the major streams in the BDS program. Evidence Based Dentistry: provides students with an appreciation of the nature and scope of statistics applied to biological problems (biostatistics) as well as a working knowledge of basic statistics, including presentation, interpretation and analysis of data. Computing: provides students with a basic understanding of computers and computing with particular reference to the needs of dental students and dentists. Communication and Learning: introduces students to the educational philosophy and various study skills of the BDS program and emphasises the need to be proficient in communication. Evidence Based Dentistry II provides students with skills necessary to sustain and enhance the clinical practice of dentistry using scientific information published in biomedical journals. Social Context of Dentistry: aims to provide an understanding of the diversity of the Australian community and how that diversity influences the process of dental care and oral health outcomes.

Level II

DENT 2000HO
Second Annual B.D.S. Examination

DENT 2001AHO/BHO
Dental and Health Science II

- 6 units - full year
- 7 hours per week including problem-based learning sessions, class meetings, learning laboratories, tutorials
- Eligibility: available to BDS students only
- Prerequisite: DENT 1001A/BHO Dental and Health Science I and DENT 1000HO First Annual BDS Exam
- Corequisite: DENT 2002AHO/BHO Dental Clinical Practice II, Dent 2003 AHO/BHO Structure and Function of the Body IID, DENT 2004AHO/BHO General Studies IID
- Assessment: tests, written exam, performance in tutorials & learning laboratories, project

This stream aims, through the exploration of problem-based learning packages, to provide students with a detailed understanding of the embryology and histology of the dento-facial structures; to provide a basic understanding of the biochemistry of the human body with particular reference to the oral cavity; to develop an appreciation of the scientific aspects of clinical dentistry including functioning of the masticatory system and the

importance of occlusion in all branches of dentistry; to develop further appreciation of behavioural science in dentistry.

Topics include: embryology of face; odontogenesis including enamel and dentine formation; histology of the oral tissues; dental caries; the structural basis of biochemistry; principles of nutrition; molecular organisation - including bioenergetics and the principles of metabolism; the integration and control of metabolism; hormones and growth factors; the biochemistry of soft tissues - including blood, epithelium and connective tissue; the biochemistry of calcified tissues - bone, dentine, cementum and enamel; the oral environment - including saliva, gingival crevicular fluid and dental plaque; development of occlusion; occlusal variation; orofacial sensation; masticatory function; aspects of behavioural science. A number of problem-based dental learning packages are provided in this stream to give a context to student learning.

DENT 2002AHO/BHO
Dental Clinical Practical II

- 8 units - full year
- 12 hours per week including clinical, practical, resource sessions
- Eligibility: available to BDS students only
- Prerequisite: DENT 1002A/BHO Dental Clinical Practice I and DENT 1000HO First Annual BDS Exam
- Corequisite: DENT 2001AHO/BHO Dental and Health Science II, Dent 2003 AHO/BHO Structure and Function of the Body IID, DENT 2004AHO/BHO General Studies IID
- Assessment: practical (lab & clinic), academic (assignments & exams) - details in Dental Clinical Practice Manual

This course builds upon Dental Clinical Practice I with regard to the acquisition and consolidation of dental clinical skills. Experience will be gained in patient management, emphasising communication and behaviour management, clinical examination procedures and diagnostic methods before working with selected patients of the SA Dental Service.

Topics include: clinical assessment and recording of dental health data; diagnosis; introductory treatment planning; obtaining intra-oral radiographs; preventative regimes; basic restorative dentistry; properties of commonly used dental materials; introduction to management of emergencies; introduction to gingival and periodontal conditions, introduction to local anaesthesia.

DENT 2003AHO/BHO
Structure and Function of the Body IID

- 6 units - full year
- 7 hours per week, including class meetings, laboratory sessions, research-based practical sessions, tutorials
- Eligibility: available to BDS students only
- Prerequisite: DENT 1003A.BHO Human Biology ID and DENT 1000HO First Annual BDS Exam
- Corequisite: DENT 2001AHO/BHO Dental and Health Science II, Dent 2002 AHO/BHO Dental Clinical Practice II, DENT 2004AHO/BHO General Studies IID
- Assessment: will include written exams, case scenarios, problem-based learning, tutorial & laboratory exercises

This stream aims to provide: an integrated coverage of the structure and function of selected body systems; a detailed description of the gross topographical anatomy of the head and neck emphasising aspects of functional and clinical importance; a description of the anatomy of the central nervous system. A number of problem-based scenarios are provided in this stream to give a context to student learning.

Topics include: structure and function of the alimentary, cardiovascular, respiratory, lymphoid, endocrine and renal systems; detailed osteology of the skull; applied anatomy of face and scalp, infratemporal region, temporomandibular joints, pterygopalatine fossa, submandibular region, pharynx, larynx, cranial nerves; central nervous system; sensory and motor pathways; autonomic nervous system; blood supply of the brain; anatomy related to local anaesthesia in dentistry.

DENT 2004HO
General Studies IID

- 4 units - full year
- 3 hours per week
- Eligibility: available to BDS students only
- Prerequisite: DENT 1004A/BHO General Studies ID, DENT 1000HO First Annual BDS Exam
- Corequisite: DENT 2001AHO/BHO Dental and Health Science II, Dent 2002 AHO/BHO Dental Clinical Practice II, DENT 2003AHO/BHO Structure and Function of the Body IID
- Assessment: projects, written reports, tests, assignments & group presentations

As for DENT 1004AHO/BHO General Studies ID. Topics in this stream are available to students during the first and second years of the program.

Level III

DENT 3000HO
Third Annual B.D.S. Examination

DENT 3001AHO/BHO
Dental and Health Science III

- 6 units - full year
- 7 hours per week (approx)
- Eligibility: available to BDS students only
- Prerequisite: DENT 2001AHO/BHO Dental and Health Science II and DENT 2000HO Second Annual BDS Exam

- Corequisite: DENT 3002AHO/BHO Dental Clinical Practice III, DENT 3003AHO/BHO Disease and Disorders of the Body IIID
- Assessment: short tests, journal review, practical & clinical exercises, problem-based based learning sessions & PBL written exam

This stream aims to: describe the normal functioning of the masticatory system, the importance of occlusion and the characteristics of an optimal occlusion, describe the morphological and functional changes that occur in the masticatory system as a result of normal growth and ageing, and the adaptability of the system to these changes; emphasise the importance of occlusion in all branches of dentistry and consider the methods available for diagnosis and treatment of disorders of the masticatory system; consider the causes and effects of disease and stress on the masticatory system; describe human growth and development with particular emphasis on aspects relevant to dentistry; provide an introduction to aspects of orthodontic examination diagnosis and treatment. A number of problem-based dental learning packages are provided in this stream to give a context to student learning.

Topics include: orofacial sensation, jaw muscles and receptors; jaw reflexes, mastication and swallowing, temporomandibular joint function and loading, parafunction, occlusal therapy, concepts of physical growth and development, methods for studying growth, factors affecting growth, development of the skull, factors affecting normal dento-facial growth, indices of maturation, facial aesthetics, normal changes in dental arch form, aetiology of orthodontic problems.

DENT 3002AHO/BHO
Dental Clinical Practice III

- 12 units - full year
- 14 hours per week, including class meetings, laboratory sessions, clinic sessions
- Eligibility: available to BDS students only
- Prerequisite: DENT 2002 AHO/BHO Dental Clinical Practice II; DENT 2001AHO/BHO Dental and Health Science II; DENT 2003AHO/BHO Structure and Function of the Body IID and DENT 2000HO Second Annual BDS Exam
- Corequisite: DENT 3001AHO/BHO Dental and Health Science III, DENT 3003AHO/BHO Disease and Disorders of the Body IIID
- Assessment: assessment portfolio assessed each half semester

This stream builds upon Dental Clinical Practice II with regard to the consolidation of preventive, periodontal and restorative clinical skills, through manikin exercises and by provision of treatment for selected patients of the South Australian Dental Service. The pain control component of the stream covers local anaesthetic techniques. The stream includes an introduction in removable prosthodontics, cast gold restorations and anterior endodontics.

Topics include: patient assessment for local anaesthesia, pharmacological aspects of local anaesthesia, basic principles of local anaesthesia; aspects of advanced restorative dentistry; treatment planning principles of preparation for indirect gold, resin and porcelain restorations; laboratory stages of cast gold restorations; bonding systems; philosophies and practices of removable partial denture prosthodontics; periodontics aetiology and treatment; pulpal, periapical and periradicular pathology; dental materials.

DENT 3003AHO/BHO
Diseases and Disorders of the Body IIID

- 6 units - full year
- 6 hours per week
- Eligibility: available to BDS students only
- Prerequisite: DENT 2003 AHO/BHO Structure and Function of the Body IID and DENT 2000HO Second Annual BDS Exam
- Corequisite: DENT 3001 AHO/BHO Dental and Health Science III, DENT 3002 AHO/BHO Dental Clinical Practice III
- Assessment: two written exams, end of year exam

This stream introduces students to pathology, microbiology, immunology and oral pathology in the context of human disease. The course aims to provide students with a detailed understanding of core pathological and immunological reactions that can occur and how such processes relate to clinical disease; to provide students with detailed knowledge of the structure and biology of bacteria, viruses and fungi and how these organisms relate to human disease states and processes; to provide a detailed understanding of the normal oral microflora and its relationship to oral health and specific dental diseases such as caries and periodontal disease; to provide a detailed understanding of the processes of neoplasia and hyperplasia generally and in relation to the mouth.

Topics include: cell injury, acute and chronic inflammation, healing, the cellular composition and function of the normal immune system, immune system reactivity, immunological hypersensitivities; microbial physiology, metabolism and genetics; principles and practice of disinfection and sterilisation, antibiotic therapy, infection control; host-parasite relationships including mechanism of pathogenicity; bacterial, viral and fungal diseases of relevance in dentistry; the oral microbiota and its relation to caries and periodontal diseases; hyperplasia and oral hyperplastic lesions, HIV/AIDS, neoplasia and oral neoplasia.

Level IV

DENT 4000HO
Fourth Annual B.D.S. Examination

DENT 4001AHO/BHO
Dental and Health Science IV

- 8 units - full year
- Contact hours to be determined
- Eligibility: available to BDS students only

- Prerequisite: DENT 3001AHO/BHO Dental and Health Science III and DENT 3000HO Third Annual BDS Exam
- Corequisite: DENT 4002AHO/BHO Dental Clinical Practice IV, DENT 4003AHO/BHO Dental Selectives IV
- Assessment:short tests, projects, dental learning packages, written exams

This stream provides an understanding of the interactions between general health, general disease and medical treatment with dental treatment. Topics include: general and oral pathology, general medicine, pharmacology and therapeutics, general surgery; social and community aspects of health, and pain control. Dental learning packages (DLP's) will be presented in coordination with the Dental Clinical Practice IV stream.

It aims to: provide a systematic overview of clinical and other pathologic features of various diseases/lesions that may be encountered in the tissues of the oral region; describe the systemic diseases and disorders of the body of relevance to dentists; provide an appreciation of principles of drug administration, distribution, action and elimination; provide instruction on important classes of drugs with emphasis on their modes of administration and action, therapeutic uses, adverse effects and interactions; discuss the role of pharmacology and therapeutics in dental practice; discuss the management of medically compromised patients; provide an overview of surgery including knowledge of metabolic response to injury and shock, bleeding and transfusion and surgical infection; discuss social and community aspects of disease including the burden of illness, inequalities and determinants of health, health promotion, care and policy.

An understanding of the basic principles and clinical and microscopic features of disease is assumed, particularly: developmental disorders, inflammation, basic immunopathology, hyperplasia, neoplasia, degenerative disease, hormonal-metabolic disease, physiology, biochemistry and microbiology.

DENT 4002AHO/BHO
Dental Clinical Practice IV

- 12 units - full year
- 28 contact hours per week, including class meetings, laboratory & clinical sessions
- Eligibility: available to BDS students only
- Prerequisite: DENT 3002A/BHO Dental Clinical Practice III and DENT 3000HO Third Annual BDS Exam
- Corequisite: DENT 4001A/BHO Dental and Health Science IV, DENT 4003AHO/BHO Dental Selectives IV
- Assessment: self assessment, tutor assessment of clinical performance, written exams, may also include written assignments or patient case reports & interviews - minimum standards are required in each discipline to complete course requirements

This stream builds upon previous years with regard to the acquisition and consolidation of dental clinical skills in the disciplines of behavioural science, conservative (operative) dentistry, dental materials, endodontics, oral diagnosis, periodontics, radiology and radiography. The stream consists of class meetings, lectures, seminars, research projects, dental learning packages and clinical practice.

In semester 1 students are introduced to the clinical disciplines of complex conservative dentistry (fixed prosthodontics), paediatric dentistry, orthodontics and removable prosthodontics. Students undertake preclinical practical exercises in these disciplines and must achieve a satisfactory standard before proceeding to treat patients. In semester 2, the disciplines of oral surgery and temporomandibular disorders are introduced through lecture programs. In clinical practice, emphasis is placed on acquiring skills for integrated treatment planning and developing responsible professional attitudes towards care and management of patients assigned to each student for treatment.

DENT 4003AHO/BHO
Dental Selectives IV

- 4 units - full year
- contact hours - 30 hours total
- Eligibility: available to BDS students only
- Prerequisite: DENT 3000HO Third Annual BDS Examination
- Corequisite: DENT 3001AHO/BHO Dental and Health Sciences IV, DENT 3002AHO/BHO Dental Clinical Practice II
- Assessment: by supervisors, presentation of work carried out in November selective program

This stream is designed to give students the opportunity to explore aspects of dentistry in more detail or gain additional experience in certain areas or take part in one or more activities not included in other parts of the program. This might include coursework from appropriate programs, supervised research projects, additional experience in advanced aspects of a clinical speciality or exchange visits to other dental schools. Students are strongly advised to discuss their proposed selective program with the coordinator as soon as possible.

Honours

DENT 4100HO
Honours Dentistry

- 24 units - full year
- Eligibility: available to B.Sc.Dent. Honours students only

Candidates may, with the approval of the Head of the Department, enrol in the Honours Dentistry program after they have successfully completed the third year of the degree of Bachelor of Dental Surgery, or after they have obtained the degree of Bachelor of

Dental Surgery or equivalent. Under certain circumstances, candidates who have obtained an ordinary degree in another Faculty may be admitted to an Honours program in Dentistry.

Candidates may choose as their principal area of study one of the current research thrusts of the Dental School.

Candidates will be required to undertake on a full time basis for one year (or half-time if approved by the Dean of the Dental School), a program of study which may include essays, seminars, laboratory work, clinical work and a research project under the supervision of a member of the School. A candidate may be required to undertake such formal courses of study in related courses as are deemed desirable. Prospective candidates are advised to consult the Dean of the Dental School and staff members in the year preceding the honours year to discuss the area of proposed study.

ANAT SC 4000A/B Honours Anatomical Sciences

BIOCHEM 4000A/B Honours Biochemistry

DENT 4100A/B Honours Dentistry

GENETICS 4005A/B Honours Genetics

PATHOL 4000A/B Honours Pathology

PHARM 4000A/B Pharmacology

Level V

DENT 5000HO

Fifth Annual (Final) B.D.S. Examination

DENT 5001AHO/BHO

Dental and Health Science V

- 8 units - full year
- 6 hours per week (approx)
- Eligibility: available to BDS students only
- Prerequisite: DENT 4001AHO/BHO Dental and Health Science IV and DENT 4000HO Fourth Annual BDS Exam
- Corequisite: DENT 5002 AHO/BHO Dental Clinical Practice V, DENT 5003 AHO/BHO Dental Selectives V
- Assessment: written assignment, seminar presentation, seminar participation, may include written exam

This stream builds upon 4001 Dental and Health Science IV. A population perspective on oral health and access to dental care is presented as a context for the consideration of a number of problem-based learning packages on the organisation and delivery of dental care, particularly to disadvantaged groups. These problem-based learning packages are supported by guided reading, seminars and resource talks.

Clinical applications of oral pathology and oral medicine are covered including the principles of diagnosis of systemic and local diseases affecting the oral cavity. Instruction is given in the use of clinical and laboratory diagnostic procedures. Methods of treatment of oral disease are considered and emphasis is placed on interactions between dental treatment and medical conditions.

Topics related to community dentistry, practice management, working with auxiliaries, legal and ethical issues, as well as updates in a variety of clinical disciplines are discussed in a series of interdisciplinary seminars during the second semester.

DENT 5002AHO/BHO

Dental Clinical Practice V

- 12 units - full year
- Contact hours to be determined
- Eligibility: available to BDS students only
- Prerequisite: DENT 4002AHO/BHO Dental Clinical Practice IV and DENT 4000HO Fourth Annual BDS Exam
- Corequisite: DENT 5001AHO/BHO Dental and Health Science V, DENT 5003 AHO/BHO Dental Selectives V
- Assessment: self assessment, tutor assessment, written clinical assessments - minimum standards required in each discipline to complete stream requirements

This stream builds upon previous years with regard to the acquisition and consolidation of dental clinical skills in different disciplines including general dental practice, oral diagnosis, dental radiology, oral surgery, paediatric dentistry and orthodontics, pain control and removable prosthodontics. Students gain clinical experience of the comprehensive management of patients, based on the coordination of skills from individual disciplines. Seminars and clinical tutorials explore a wide range of topics relating to general practice. Emphasis is placed on treatment planning, reviews of completed treatments and prognosis. Oral diagnosis and Dental Radiology components continue on, with increasing emphasis on the development of treatment planning and communication skills. Rural placements are available for final year students. Lectures on oral surgery presented during the fourth year are followed and expanded in class meetings and clinical sessions. Major aspects of oral surgery including dento-alveolar surgery, maxillo-facial injuries, pre-prosthetic surgery, orthognathic surgery, temporomandibular joint surgery and aspects of cleft surgery and head and neck oncology are covered.

Clinical practice in oral surgery includes patient assessment, diagnosis, selection of appropriate analgesia/anaesthesia, routine exodontia, minor oral surgery and elective oral surgery on outpatients at the Royal Adelaide Hospital. Students gain further knowledge in the management of apprehension and pain, including general anaesthesia.

DENT 5003AHO/BHO

Dental Selectives V

- 4 units - full year
- semester I :-3 hours, semester: 6 hours per week - aspects of Dental Selectives may be undertaken during semester breaks
- Eligibility: available to BDS students only
- Prerequisite: DENT 4000H Fourth Annual Examination; for some clinical selectives, students must have satisfactorily completed the prerequisite level of knowledge
- Corequisite: DENT 5001AHO/BHO Dental and Health Science V, DENT 5002 AHO/BHO Dental Clinical Practice V
- Assessment: will include clinical assessment, written reports, oral presentations; satisfactory completion of requirements of other approved educational institutions, seminar presentation and participation, essays, case reports

This stream follows on from Dental Selectives IV with the intention of allowing students to customise aspects of their dental program by exploring selected aspects of dentistry in more detail, gaining additional experience in certain areas, or taking part in activities not included in the core component of the undergraduate dental program. This might include additional experience in advanced aspects of dental clinical practice, dental and health sciences, or human biology, coursework from other appropriate educational institutions, supervised research projects, or exchange visits to other institutions or dental schools. In Semester I, students undertake one clinical Selective and in Semester II, undertake one clinical Selective and one non clinical Selective. See Dental Selectives IV.

Design Studies

Level I

DESST 1001

Special Topic in Design Studies IB

- 3 units
- Up to 3 hours lectures/tutorials/seminars per week
- Eligibility: B.Des.St.students. Other student should check the Academic Program Rules for their program to determine eligibility
- Quota will apply
- Assessment: assignments, projects

Course description will be provided by the School when specialist teaching is available.

DESST 1004

Australian Architecture and Landscapes I

- 3 units - semester 2
- 2 lectures, 1 tutorial a week
- Eligibility: B.Des.St.students. Other student should check the Academic Program Rules for their program to determine eligibility
- Quota will apply
- Restriction: 8329 History and Theories of Architecture I, or 2006 History and Theories of Architecture IB, or 2006 Australian Architecture I,or 2891 Australian Architecture II
- Assessment: tutorial papers 40%, final essay 60%

A general introduction to the study of Australian architecture and landscapes since 1788, with special attention to conceptual issues concerned with the characterisation of the 'Australian' architecture and landscape. The limitations of the formal analysis of built objects, periodisation and stylistic taxonomy will be discussed with reference to selected sites in Adelaide and elsewhere, both professionally designed and otherwise. Australian discourse will be analysed in relation to wider patterns of cultural value. Reference to the wider international context will be made as appropriate.

DESST 1006

Built Environments I

- 3 units - semester 1
- 1 lecture, 2 tutorial hours a week - may include a field trip
- Eligibility: B.Des.St.students - other student should check the Academic Program Rules for their program to determine eligibility
- Quota will apply
- Assessment: project work, tutorial participation

This course aims to provide a holistic, integrated introduction to the University, the School and the subject area of people interacting with design and the environment; engage students in active learning through research, project work and design work; provide a nurturing learning environment where there is an emphasis on critical thinking, making, and reflection, as an iterative cycle; emphasise the development of communication skills and the relationships between them: manual sketching, computer modelling, plain English writing, listening, argument formulation and delivery, and reflective, summary writing with current industry standard tools.

DESST 1007

Special Topic in Design Studies IA

- 3 units
- Up to 3 hours lectures/tutorials/seminars per week
- Eligibility: B.Des.St.students - other student should check the Academic Program Rules for their program to determine eligibility
- Quota will apply
- Assessment: assignments, projects

Course description will be provided by the School when specialist teaching is available.

DESST 1008

Composing Architecture and Landscape I

- 3 units - semester 2
- Up to 3 hours per week
- Eligibility: B.Des.St.students - other student should check the Academic Program Rules for their program to determine eligibility
- Quota will apply
- Assumed Knowledge: DESST 1023 Computer-Aided Design I or equivalent
- Restriction: 4348 Design and Form I or 4830 Design and Form IB
- Assessment: assignments

Design in the built environment (architecture, landscape architecture and urban design) is discussed, demonstrated and practised as an iterative activity involving both creative action and critical thought. The primary emphasis of the course is developing concepts and skills for creative action: designing spatial forms as both visual compositions and as a potential setting for human activities. Concepts covered include composition, derivation, geometric construction and grammatical rules. Skills include drawing, writing, group work, computer graphics and computer modelling. The secondary emphasis is critical thought; designs are examined from multiple and often conflicting positions and values. The course matter is situated within the history of built environment design through the use of examples.

DESST 1009

Art History and Theories IA

- 3 units - semester 1
- Up to 2 lectures, 1 tutorial per week; occasional excursions
- Eligibility: B.Des.St.students - other student should check the Academic Program Rules for their program to determine eligibility
- Quota will apply
- Restriction: 2090 Art History and Theories; or DESST 2033 Art History and Theories IIA
- Assessment: slide test 40%, essays 35% and tutorial work 25%

Impressionism and after: a critical view of European art from the time of Manet to the First World War. This course introduces students to the most influential ideas and theories in the art of the latter part of the 19th century, a time of renegotiation of the relationship between artists and the social context within which they work. Included in the study are the major artists and ideas contributing to the development of impressionism, post-impressionism, symbolism, fauvism, cubism, futurism, constructivism, posters and political art. The course aims to stimulate an awareness that familiarity with the history of ideas can aid each person in the expansion, structuring and enrichment of his or her own life. Development of the following skills will be brought into focus: clear-thinking, verbal communication, written communication, interpretation of written and visual material, and ability to work with historical research methods. Guest lecturers and excursions are incorporated in the course where appropriate. Use is made of a broad range of visual material.

DESST 1013

An Introduction to Contemporary Arab Culture & Architecture

- 3 units - not offered in 2005
- Up to 2 lectures, 1 tutorial per week
- Eligibility: B.Des.St.students - other student should check the Academic Program Rules for their program to determine eligibility
- Quota will apply
- Assessment: assignments

An introduction to the major themes of contemporary Arab Culture and architecture. It adopts a multi-disciplinary approach to develop an understanding of the current forces shaping life and built-environment in contemporary Arab societies. The central focus will be upon cross-cultural interpretations in the framework of literature, art and architecture and socio-political thought. Within this framework the issues of gender, religion, identity, nationalism, colonialism and the discourse of orientalism will be discussed.

DESST 1014

Construction I

- 3 units - semester 2
- Up to 2 lectures, 1 tutorial hours a week
- Eligibility: B.Des.St.students - other student should check the Academic Program Rules for their program to determine eligibility
- Quota will apply
- Restriction: 8334 Building Studies IA or 7006 Building Construction I
- Assessment: assignments

An introduction to the theory and practice of building. How buildings are constructed is investigated in relation to the cultural, technological and historical context in which they appear.

Theoretical texts and actual buildings under construction are studied simultaneously with the aim of establishing the connection between thinking (imagination) and making (constructing). Theoretical and practical work in this course includes: building scale models of construction details; reading working drawings; interpreting theoretical texts concerned with technological issues; writing concise theoretical texts; graphic presentation; investigating the relationship between client, architect, engineer and builder.

DESST 1018
Image/Text/Architecture I

- 3 units - semester 2
- Up to 2 lectures, 1 tutorial hour a week
- Eligibility: B.Des.St.students - other student should check the Academic Program Rules for their program to determine eligibility
- Quota will apply
- Restriction: 2713 Design Studies IB
- Assessment: assignments

A general introduction to architectural thought emphasising major thresholds in Western architectural history. The key issues examined will include: geometric and iconographic order, the status and role of architectural designers and writers, methods of representation and reproduction involved in constructing and propagating architectural ideas, and important historical perspectives that situate 20th-century developments. Practical work includes exercises in typographic design and in writing short analytical texts.

DESST 1019
Art History and Theories IB

- 3 units - semester 2
- Up to 2 lectures, 1 tutorial per week; occasional excursions
- Eligibility: B.Des.St.students - other student should check the Academic Program Rules for their program to determine eligibility
- Quota will apply
- Restriction: DESST 2032 Art History and Theories IIB
- Assessment: slide test 40%, essays 35% and tutorial work 25%

Art history and theories after World War I: modernism and beyond. The course introduces students to some of the leading ideas and manifestations of visual art from about 1920 to the present day. The term 'visual art' is broadly understood to include film, graphics, photography, posters, performance and the arts of process and idea, as well as painting, sculpture and architecture (although architecture is chiefly dealt with in other courses). Expressionism, dada, surrealism, modernism, abstract expressionism, op, pop and minimalism, art and technology, environments, happenings, performance, body art, conceptual art, process art, video, women's art, murals and photorealism are studied. Guest lecturers and excursions are incorporated in the course where appropriate. Use is made of a broad range of visual material.

DESST 1023
Computer-Aided Design I

- 3 units - semester 1
- Up to 3 hours per week
- Eligibility: B.Des.St.students - other student should check the Academic Program Rules for their program to determine eligibility
- Quota will apply
- Restriction: 1530 Computer-Aided Design II
- Assessment: assignments

The course (a) develops the skills of using a current computer-aided design (CAD) graphics system for describing the built environment; and (b) examines the nature, assumptions and characteristics of CAD systems, their relationship to computation, abstraction and representation in design, and ways of looking at designs and designing from a CAD viewpoint.

DESST 1024
Drawing Architecture and Landscape I

- 3 units - semester 1
- Up to 2 lectures, 1 tutorial hour a week
- Eligibility: B.Des.St.students - other student should check the Academic Program Rules for their program to determine eligibility
- Quota will apply
- Restriction: 4348 Design and Form I or 9513 Design and Form IA
- Assessment: assignments 70%, model 30%

An introduction to the basic principles, techniques and skills of drawing and graphic communication. It familiarises students with the drawing conventions in the fields of architecture and landscape architecture, such as orthographic, paraline and perspective projections, shade and shadow and free-hand sketching. The course also introduces students to models and model making. Focusing on the manual skills required in expressing and communicating graphically design ideas, the course aims to develop, through simple exercises and intense practical involvements, the student's perceptive ability, visual sensibility and technical proficiency. Non-conventional approaches to representing built forms and landscape are also explored.

DESST 1025
Natural Systems and Design I

- 3 units - semester 1
- 1 lecture, 2 tutorial hours a week.
- Eligibility: B.Des.St.students - other student should check the Academic Program Rules for their program to determine eligibility
- Quota will apply
- Restriction: DESST 2035 Natural Systems and Design II
- Assessment: series of papers, design assignments

This course considers the role and interactions that natural systems have upon and may influence designs, and how they are addressed in landscape design. These interactions include the role that soils, geology, micro-climate, water systems, animals and plants have upon and may shape the qualities and experiences in our designs. In particular the course considers the opportunities and diversity of plants as a design medium, the significant role of water in design including wetlands and stormwater management systems, and the natural ecological factors at sites that present constraints and opportunities in designs with an emphasis upon construction issues thereof. Specific attention is paid to the South Australian context, as well as contemporary examples that address these considerations.

DESST 1026

Special Topic in Design Studies IC

- 3 units
- Up to 3 hours lectures/tutorials/seminars per week
- Eligibility: B.Des.St. students - other students should check the Academic Program Rules for their program to
- Quota will apply
- Assessment: assignments, projects

Course description will be provided by the School when specialist teaching is available.

Level II

DESST 2003

Islamic Architecture and Gardens II

- 4 units - not offered in 2005
- Up to 2 lectures, 2 tutorials per week
- Eligibility: B.Des.St.students - other student should check the Academic Program Rules for their program to determine eligibility
- Quota will apply
- Restriction: DESST 3023 Islamic Architecture and Gardens III
- Assessment: assignments

An introduction to aspects of the social, cultural and religious content of Islamic architecture and gardens both in traditional and contemporary contexts. Issues concerning the contemporary search for cultural identity will be discussed. The primary focus will be upon the notion of order in space, spatial organisation as revealed in traditional built forms, places and gardens in various parts of the Islamic world and the symbolic significance associated with these forms.

DESST 2005

Technology in the Built Environment II

- 4 units - semester 1
- Up to 2 hours lectures, 2 hours of tutorials per week
- Eligibility: B.Des.St.students - other student should check the Academic Program Rules for their program to determine eligibility
- Assumed Knowledge: DESST 1006 Built Environments I and DESST 1014 Construction I or their equivalents
- Restriction: 3006 Science and the Built Environment II
- Assessment: assignments, projects

Taking a project-based approach, the course will examine the application of science to the design and construction of built environments. Key topics covered will include design in relation to acoustic performance, thermal comfort, building structures and construction materials and techniques.

DESST 2006

Special Topic in Design Studies IIB

- 4 units
- Up to 4 hours lectures/seminars/studios per week, field study trips
- Eligibility: B.Des.St.students - other student should check the Academic Program Rules for their program to determine eligibility
- Quota will apply
- Assessment: assignments, projects

Course description will be provided by the School when specialist teaching is available.

DESST 2008

Computer-Aided Design IIB

- 4 units - semester 2
- Odd years only
- Up to 4 hours per week
- Eligibility: B.Des.St.students - other student should check the Academic Program Rules for their program to determine eligibility
- Quota will apply
- Assessment: assignments

The use of computer media in design in architecture and/or urban design and/or landscape architecture. The course explores selected topics through significant project work, including making and using CAD models. The work may include building, urban and landscape modelling, the use of procedures, parametric design, animation, investigating issues of abstraction, accuracy and realism, computational design, the multimedia presentation of designs, and environmental simulation.

DESST 2010

Conservation in the Built Environment II

- 4 units - semester 1
- Odd years only
- Up to 4 hours per week
- Eligibility: B.Des.St.students - other student should check the Academic Program Rules for their program to determine eligibility
- Quota will apply
- Assumed Knowledge: DESST 1006 Built Environments I
- Restriction: DESST 3000 Conservation in the Built Environment III
- Assessment: assignments

This course examines the reasons, the what, where and why of conservation in the built environment. It considers how heritage items are identified, recorded, assessed and protected, and questions the validity of these actions. It also examines the various forms of conservation (preservation, restoration, reconstruction etc) and the uses and misuses of traditional and contemporary materials and construction methods. Urban conservation and the complexities of townscape character are canvassed together with the reuse of old buildings and the effects of current popular industries, such as tourism.

DESST 2012

Colonial and Contemporary Issues in South Asian Architecture II

- 4 units - semester 1
- Up to 2 lectures, 2 tutorials per week
- Eligibility: B.Des.St.students - other student should check the Academic Program Rules for their program to determine eligibility
- Quota will apply
- Restriction: 5094 Asian Architecture and Landscapes II (1996 only) or 8149 Asian Architecture and Landscapes III (1996 only) or DESST 3012 Colonial and Contemporary Issues in South Asian Architecture III
- Assessment: 2 tutorial assignments 40%, 3000 word final paper 60%

This course explores historical and theoretical issues arising from the colonial encounter of Europe and Asia, and their implications for contemporary architectural thought and practice. Lectures will focus on the historical case of India since the rarely 19th century.

Through a critical interpretation of British colonial efforts to 'construct' a modern Indian architecture and the subsequent efforts of post-colonial architects and theorists to 'deconstruct' that spatial and conceptual legacy, the course will consider the discursive nature of architectural knowledge and the built environments it may prescribe, with particular regard to power and the politics of cultural identity. The colonial case study will also draw attention to problems in intercultural understanding, and the relation of architecture to myths, rituals and cosmologies.

DESST 2013

Special Topic in Design Studies IIE

- 4 units
- Up to 4 hours lectures/seminars/studios per week, field study trips
- Eligibility: B.Des.St.students - other student should check the Academic Program Rules for their program to determine eligibility
- Quota will apply
- Assessment: assignments, projects

Course description will be provided by the School when specialist teaching is available.

DESST 2014

Special Topic in Design Studies IIF

- 4 units
- Up to 4 hours lectures/seminars/studios per week, field study trips
- Eligibility: B.Des.St.students - other student should check the Academic Program Rules for their program to determine eligibility
- Quota will apply
- Assessment: assignments, projects

Course description will be provided by the School when specialist teaching is available.

DESST 2016

Twentieth Century Architecture and Landscapes II

- 4 units - semester 2
- Up to 2 hours lectures, 2 hours tutorials per week
- Eligibility: B.Des.St.students - other student should check the Academic Program Rules for their program to determine eligibility
- Assumed Knowledge: DESST 1014 Construction I; DESST 1018 Image/Text/ Architecture I
- Restriction: 3596 The Design of Houses II
- Assessment: assignments

This course is concerned with changing forms, and 'forms of thinking', in the environmental design disciplines since the 19th century. Its primary aim is to place these formal and theoretical developments in a coherent historical framework through which further spatial and cultural dimensions of this field may be better understood. A further aim is to thereby enable students to position themselves critically within contemporary design discourse. Practical work includes exercises in three-dimensional composition and in writing short analytical texts.

DESST 2022

Special Topic in Design Studies IIA

- 4 units
- Up to 4 hours lectures/seminars/studios per week, field study trips
- Eligibility: B.Des.St.students - other student should check the Academic Program Rules for their program to determine eligibility
- Quota will apply
- Assessment: assignments, projects

Course description will be provided by the School when specialist teaching is available.

DESST 2023

Design and Environments II

- 4 units - semester 2
- Up to 2 lectures, 2 hours of tutorials/seminars/studios per week
- Eligibility: B.Des.St.students - other student should check the Academic Program Rules for their program to determine eligibility
- Quota will apply
- Assumed Knowledge: 9513 Design and Form IA, DESST 1024 Drawing Architecture and Landscape I, 4830 Design and Form IB, DESST 1008 Composing Architecture and Landscape, 4348 Design and Form I, DESST 1006 Built Environments I, DESST 1018 Image/Text/ Architecture I
- Restriction: 4696 Representation, Knowledge, Architecture II
- Assessment: assignments, projects

The intersection of theory and practice in architecture and landscape architecture, developed in the context of student design projects. The course will examine the range of theoretical and ideological discourses which influence approaches to 'place-making' in the urban environment.

DESST 2025

Computer-Aided Design IIA

- 4 units - semester 2
- Even years only
- Up to 4 hours per week
- Eligibility: B.Des.St.students - other student should check the Academic Program Rules for their program to determine eligibility
- Quota will apply
- Assessment: assignments

The use of computer media in design in architecture and/or urban design and/or landscape architecture. The course explores selected topics through significant project work, including making and using CAD models. The work may include building, urban and landscape modelling, the use of procedures, parametric design, animation, investigating issues of abstraction, accuracy and realism, computational design, the multimedia presentation of designs, and environmental simulation.

DESST 2027

Special Topic in Design Studies IID

- 4 units
- Up to 4 hours lectures/seminars/studios per week, field study trips
- Eligibility: B.Des.St.students - other student should check the Academic Program Rules for their program to determine eligibility
- Quota will apply
- Assessment: assignments, projects

Course description will be provided by the School when specialist teaching is available.

DESST 2032

Art History and Theories IIB

- 4 units - semester 2
- Up to 2 lectures, 1 tutorial hour per week, occasional excursions
- Eligibility: B.Des.St.students - other student should check the Academic Program Rules for their program to determine eligibility
- Quota will apply
- Restriction: 2090 Art History and Theories, or DESST 1019 Art History and Theories IB
- Assessment: slide tests 40%, essays 35% and tutorial work 25%

Art history and theories after World War I: modernism and beyond. The course introduces students to some of the leading ideas and manifestations of visual art from about 1920 to the present day. The term 'visual art' is broadly understood to include film, graphics, photography, posters, performance and the arts of process and idea, as well as painting, sculpture and architecture (although architecture is chiefly dealt with in other courses). Expressionism, dada, surrealism, modernism, abstract expressionism, op, pop and minimalism, art and technology, environments, happenings, performance, body art, conceptual art, process art, video, women's art, murals and photorealism are studied. Guest lecturers and excursions are incorporated in the course where appropriate. Use is made of a broad range of visual material.

DESST 2033

Art History and Theories IIA

- 4 units - semester 1
- Up to 2 lectures, 1 tutorial hour per week, occasional excursions
- Eligibility: B.Des.St.students - other student should check the Academic Program Rules for their program to determine eligibility
- Quota will apply
- Restriction: 2090 Art History and Theories; or DESST 1009 Art History and Theories IA
- Assessment: slide tests 40%, essays 35% and tutorial work 25%

Impressionism and after: a critical view of European art from the time of Manet to the First World War. This course introduces students to the most influential ideas and theories in the art of the latter part of the 19th century, a time of renegotiation of the relationship between artists and the social context within which they work. Included in the study are the major artists and ideas contributing to the development of impressionism, post-impressionism, symbolism, fauvism, cubism, futurism, constructivism, posters and political art. The course aims to stimulate an awareness that familiarity with the history of ideas can aid each person in the expansion, structuring and enrichment of his or her own life. Development of the following skills will be brought into focus: clear-thinking, verbal communication, written communication, interpretation of written and visual material, and ability to work with historical research methods. Guest lecturers and excursions are incorporated in the course where appropriate. Use is made of a broad range of visual material.

DESST 2034

Domestic Scale Construction II

- 4 units - semester 1
- Up to 2 lectures, 2 tutorial hours a week
- Eligibility: B.Des.St.students - other student should check the Academic Program Rules for their program to determine eligibility
- Quota will apply
- Assumed Knowledge: DESST 1023 Computer-Aided Design I, DESST 1014 Construction I
- Assessment: assignments, projects

This course examines common methods and details for domestic scale building and landscape construction. These include timber frame, brick and brick veneer buildings, and hard landscape elements such as decks, paths and retaining walls. The emphasis is on understanding how construction elements are assembled in three dimensions. A significant part of the course involves 'digital construction' where building and landscape components are 'constructed' in a 3D CAD system.

DESST 2035

Natural Systems and Design II

- 4 units - semester 1
- Up to 2 lectures, 2 tutorials or equivalent studios a week
- Eligibility: B.Des.St.students - other student should check the Academic Program Rules for their program to determine eligibility
- Quota will apply
- Restriction: DESST 1025 Natural Systems and Design I
- Assessment: a series of papers and design assignments.

This course considers the role and interactions that natural systems have upon and may influence designs, and how they are addressed in landscape design. These interactions include the role that soils, geology, micro-climate, water systems, animals and plants have upon and may shape the qualities and experiences in our designs. In particular the course considers the opportunities and diversity of plants as a design medium, the significant role of water in design including wetlands and stormwater management systems, and the natural ecological factors at sites that present constraints and opportunities in designs with an emphasis upon construction issues thereof. Specific attention is paid to the South Australian context, as well as contemporary examples that address these considerations.

Level III

DESST 3000

Conservation in the Built Environment III

- 6 units - semester 1
- Odd years only
- Up to 5 hours per week
- Eligibility: B.Des.St.students - other student should check the Academic Program Rules for their program to determine eligibility
- quota will apply
- Assumed Knowledge: DESST 1006 Built Environments I
- Restriction: DESST 2010 Conservation in the Built Environment II
- Assessment: assignments

This course examines the reasons, the what, where and why of conservation in the built environment. It considers how heritage items are identified, recorded, assessed and protected, and questions the validity of these actions. It also examines the various forms of conservation (preservation, restoration, reconstruction etc) and the uses and misuses of traditional and contemporary materials and construction methods. Urban conservation and the complexities of townscape character are canvassed together with the reuse of old buildings and the effects of current popular industries, such as tourism.

DESST 3002

Computer-Aided Design IIIA

- 6 units - semester 1
- Even years only
- Up to 6 hours a week
- Eligibility: B.Des.St.students - other student should check the Academic Program Rules for their program to determine eligibility
- Quota will apply
- Assessment: assignments

The use of computer media in design in architecture and/or urban design and/or landscape architecture. The course explores selected topics through significant project work, including making and using CAD models. The work may include building, urban and landscape modelling, the use of procedures, parametric design,

animation, investigating issues of abstraction, accuracy and realism, computational design, the multimedia presentation of designs, and environmental simulation.

DESST 3005

Special Topic in Design Studies IIIA

- 6 units
- Up to 5 hours a week
- Eligibility: B.Des.St.students - other student should check the Academic Program Rules for their program to determine eligibility
- Quota will apply
- Assessment: assignments and projects

Course description will be provided by the School when specialist teaching is available.

DESST 3006

Building Design Studio III

- 6 units - semester 2
- Up to 6 hours lectures/seminars/studios per week
- Eligibility: B.Des.St.students - other student should check the Academic Program Rules for their program to determine eligibility
- Prerequisite: DESST 2023 Design and Environments II
- Assumed Knowledge: DESST 3011 Issues in Urban & Landscape Sustainability III or 4371 Issues in Urban Sustainability III
- Restriction: DESST 3001 Urban Design Studio III
- Assessment: assignments, projects

Students will apply their skills in formal composition and knowledge of precedent to the design of small buildings. Emphasis will be placed on the use of materials, structure and construction, responses to the local environments, and life-cycle costings.

DESST 3011

Issues in Urban and Landscape Sustainability III

- 6 units - semester 1
- Up to 6 hours lectures/seminars/studios per week
- Eligibility: B.Des.St.students - other student should check the Academic Program Rules for their program to determine eligibility
- Quota will apply
- Prerequisite: DESSST 2023 Design and Environments II
- Restriction: 4321 Energy, Environment and Buildings III, 2719 Design, Ideologies and Institutions III, 6886 Issues in Landscape Sustainability III, 4371 Issues in Urban Sustainability III
- Assessment: assignments, projects

This course will centre upon 'place-making' in urban and rural settled environments. It will focus on the diversity of philosophical positions which inform current approaches to urban and landscape sustainability understood in its widest sense, including not only the 'environmental', but the resource, cultural, social, political, economic, institutional and professional realms, and position them within a design inquiry.

In the project-based learning program, students will develop knowledge and skills required in the creation of buildings and landscape elements in 'sustainable' urban environments, and will explore opportunities and constraints affecting the development of such environments.

DESST 3012

Colonial and Contemporary Issues in South Asian Architecture III

- 6 units - semester 1
- Up to 2 lectures, 3 tutorials a week
- Eligibility: B.Des.St.students - other student should check the Academic Program Rules for their program to determine eligibility
- Quota will apply
- Restriction: 5094 Asian Architecture and Landscapes II (1996 only) or 8149 Asian Architecture and Landscapes II (1996 only) or DESST 2012 Colonial and Contemporary Issues in South Asian Architecture II
- Assessment: 2 tutorial assignments 40%, 5000 word final paper 60%

This course explores historical and theoretical issues arising from the colonial encounter of Europe and Asia, and their implications for contemporary architectural thought and practice. Lectures will focus on the historical case of India since the rarely 19th century.

Through a critical interpretation of British colonial efforts to 'construct' a modern Indian architecture and the subsequent efforts of post-colonial architects and theorists to 'deconstruct' that spatial and conceptual legacy, the course will consider the discursive nature of architectural knowledge and the built environments it may prescribe, with particular regard to power and the politics of cultural identity. The colonial case study will also draw attention to problems in intercultural understanding, and the relation of architecture to myths, rituals and cosmologies.

DESST 3013

Computer-Aided Design IIIB

- 6 units - semester 1
- Odd years only
- Up to 6 hours a week
- Eligibility: B.Des.St.students - other student should check the Academic Program Rules for their program to determine eligibility
- Quota will apply
- Assessment: assignments

The use of computer media in design in architecture and/or urban design and/or landscape architecture. The course explores selected topics through significant project work, including making and using CAD models. The work may include building, urban and landscape modelling, the use of procedures, parametric design, animation, investigating issues of abstraction, accuracy and realism, computational design, the multimedia presentation of designs, and environmental simulation.

DESST 3014
Special Topic in Design Studies IIID

- 6 units
- Up to 5 hours a week
- Eligibility: B.Des.St.students - other student should check the Academic Program Rules for their program to determine eligibility
- Quota will apply
- Assessment: assignments, projects

Course description will be provided by the School when specialist teaching is available.

DESST 3016
Special Topic in Design Studies IIIC

- 6 units
- Up to 5 hours a week
- Eligibility: B.Des.St.students - other student should check the Academic Program Rules for their program to determine eligibility
- Quota will apply
- Assessment: assignments, projects

Course description will be provided by the School when specialist teaching is available.

DESST 3017
Special Topic in Design Studies IIIE

- 6 units
- Up to 5 hours a week
- Eligibility: B.Des.St.students - other student should check the Academic Program Rules for their program to determine eligibility
- Quota will apply
- Assessment: assignments, projects

Course description will be provided by the School when specialist teaching is available.

DESST 3018
Special Topic in Design Studies IIIF

- 6 units
- Up to 5 hours a week
- Eligibility: B.Des.St.students - other student should check the Academic Program Rules for their program to determine eligibility
- Quota will apply
- Assessment: assignments, projects

Course description will be provided by the School when specialist teaching is available.

DESST 3022
Landscape Design Studio III

- 6 units - semester 2
- Up to 6 hours of lectures/seminars/studios per week
- Eligibility: B.Des.St.students - other student should check the Academic Program Rules for their program to determine eligibility
- Prerequisite: DESST 2023 Design and Environments II
- Assumed Knowledge: DESST 3011 Issues in Urban and Landscape Sustainability III or 6886 Issues in Landscape Sustainability III
- Restriction:DESST 3001 Urban Design Studio III
- Assessment: assignments, projects

In this course students will apply their skills in formal composition and knowledge of precedent to the design of a small to medium sized park, allotment or place. Emphasis will be placed on design, use of materials and plants, any installations and their construction, the design's responses to the local environment, and life-cycle costings.

DESST 3023
Islamic Architecture and Gardens III

- 6 units - not offered in 2005
- Up to 2 lectures, 3 hours of tutorials a week
- Eligibility: B.Des.St.students. Other student should check the Academic Program Rules for their program to determine eligibility
- Quota will apply
- Restriction: DESST 2003 Islamic Architecture and Gardens II
- Assessment: assignments

An introduction to aspects of the social, cultural and religious content of Islamic architecture and gardens both in traditional and contemporary contexts. Issues concerning the contemporary search for cultural identity will be discussed. The primary focus will be upon the notion of order in space, spatial organisation as revealed in traditional built forms, places and gardens in various parts of the Islamic world and the symbolic significance associated with these forms.

DESST 3024

Special Topic in Design Studies IIIB

- 6 units
- Up to 5 hours a week
- Eligibility: B.Des.St.students - other student should check the Academic Program Rules for their program to determine eligibility
- Quota will apply
- Assessment: assignments and projects

Course description will be provided by the School when specialist teaching is available.

Honours

DESST 4001

Honours Design Studies

- 24 units - full year
- Eligibility: approved Honours B.Des.St.students only
- Discussions with supervisor, occasional seminars, laboratory sessions as appropriate
- Assumed Knowledge: consult Head of School of Architecture, Landscape Architecture and Urban Design

Students will be required to undertake supervised research in one or two advanced topics, thereby developing a thorough understanding of appropriate research techniques. The outcome of this research will be submitted in the form of a substantial essay or research report including a survey of the literature relevant to the topic(s) chosen. The range of topics to be offered in any year will depend on staff availability.

Topics expected to be offered from time to time include:

Architectural and Landscape Architectural History

Australian Architectural and Landscape Architectural History

Australian Urban Design History and Practice

Computer-Aided Design

Computer Applications in Architecture, Landscape Architecture or Urban Design

Conservation in the Built Environment

Criticism and Architecture and Landscape Architecture

Cross-Cultural Architectural and Landscape Architectural Topics

Dryland Landscape Design

Heritage Conservation and Cultural Landscapes

Islamic Architecture and Garden Design

Issues in Sustainable Architecture and Urban Design

Plants in Design

Project Management

South East Asian Architecture and Landscape Architecture

Theories in Modern Architecture and Landscape Architecture

Thermal Design of Buildings

Urban Design Histories and Theories

Urban Design in Islamic or South East Asian Places

Urban Ecology.

Subject to the approval of the Dean of the School of Architecture, Landscape Architecture and Urban Design and with the agreement of the other Departments/Schools/Faculties concerned, a course equivalent to 12 units at Level IV taught in another department/school/faculty may be taken as part of this program.

Economics

Level I

ECON 1000

Principles of Macroeconomics I

- 3 units - semester 1 or 2
- 2 lectures, 1 tutorial per week
- Available for Non-Award study
- Quota may apply
- Restriction: not available to students who have already passed ECON 1000 Macroeconomics I
- Assessment: class test, assignment, final exam - exam carries majority weighting for assessment

This course provides an introduction to macroeconomic theory and policy in Australia. Explanations of how we measure the total output or income of the economy; the determination of the equilibrium level of GDP and the influence of money and banking on the economy form the basis for an assessment of Australian policy-making. The influence of fiscal, monetary and incomes policies on the macroeconomic policy objectives of economic growth, low inflation, low unemployment and a sustainable balance of payments position are considered.

ECON 1002

Australia & the Global Economy I

- 3 units - not offered in 2005
- Available for Non-Award study
- 2 lectures, 1 tutorial a week
- Restriction: not available to students who have already passed ECON 1002 The Australian Economy: Institutions & Policy I
- Assessment: tutorial work, essays or papers, final exam

This course deals with relationship between global economic events and their impact on the Australian economy. Topics covered in the course will vary as issues of interest arise. Typical issues to be covered will be the implementation of monetary policy in a

world of electronic money and exchange rate volatility. An assessment of the consequences of privatisation of essential services such as power and water. Other issues of recent interest were Australia's reluctance to sign the Kyoto Protocol and the consequences for Australia of China's access to the World Trade Organisation, the emergence of the Euro or the negotiation of a Free Trade Agreement with the United States. The course will focus on issues of this type and provide an introduction to the relevant economic tools that can be employed to understand the debates surrounding these issues.

ECON 1004
Principles of Microeconomics I

- 3 units - semester 1 or 2
- 2 lectures, 1 tutorial per week
- Available for Non-Award study
- Quota may apply
- Restriction: not available to students who have already passed ECON 1004 Microeconomics I
- Assessment: a class test, final exam – exam carries majority weighting for assessment

The course provides an introduction to a core area of economics known as microeconomics. It considers the operation of a market economy and the problem of how best to allocate society's scarce resources. The course considers the way in which various decision making units in the economy (individual and firms) make their consumption and production decisions and how these decisions are coordinated. It considers the laws of supply and demand, and introduces the theory of the firm, and its components, production and cost theories and models of market structure. The various causes of market failure are assessed, and consideration is given to public policies designed to correct this market failure.

ECON 1005
Mathematics for Economists I

- 3 units - semester 1
- 5 hours lectures/tutorials/workshops per week
- Corequisite: ECON 1004 Principles of Microeconomics I
- Restriction: beginners course - except with permission of Head of School, may not be taken by students who have performed satisfactorily in SACE Stage 2 Mathematics (Mathematics IS or Mathematics I and Mathematics II) or equivalent
- Assessment: tutorials, mid-semester test, final exam

The course is intended for students without SACE Stage 2 Maths who wish to obtain a knowledge of mathematical techniques suitable for economic analysis. It course assumes very little prerequisite knowledge. The approach is informal and aims to show students how to do and apply the mathematics they require for a successful study of economics. Economic applications are considered although this course aims to teach the mathematics not the economics. Topics covered include basic algebra, simple finance, calculus and matrix algebra.

ECON 1008
Business Data Analysis I

- 3 units - semester 1 or 2
- 2 lectures, 1 tutorial per week
- Available for Non-Award study
- Quota may apply
- Restriction: ECON 1008 Business Data Analysis I and STATS 1000 Statistical Practice I cannot both be counted toward degree
- Assessment: tutorials, assignments, mid semester test, final exam

This introductory course covers collecting and organising data, drawing conclusions and commenting intelligently on the statistical results obtained. Topics include descriptive statistics, correlation and simple regression, index numbers, time series analysis and an introduction to the use of probability in formal statistical inference. Students are taught how to access a statistical database, and how to use EXCEL to do the statistical calculations.

ECON 1009
International Financial Institutions and Markets I

- 3 units - semester 1
- 2 lectures, 1 tutorial per week
- Available for Non-Award study
- Quota may apply
- Assessment: tutorials 10%, written assignments 30%, exam 60%

This course provides an introduction to Australia's financial institutions, instruments and the economics of financial markets. Topics covered include money, credit, foreign exchange and capital markets. Instruments include traditional instruments such as equity, bills and bonds. Management of interest rate and foreign exchange risk, including the use of derivatives, is introduced. Elements of financial mathematics are introduced.

Level II

ECON 2000
International Trade and Investment Policy II

- 4 units - semester 1
- Available for Non-Award study
- Assumed Knowledge: ECON 1004 Principles of Microeconomics I
- Restriction: may not be taken by students who have previously completed ECON 3021 International Trade III
- Assessment: mid-term test, final exam, tutorial presentations

This course examines the interactions between economic, political, strategic, and legal aspects of international trade and investment policies at national, regional and global levels. This includes the ways in which WTO members affect and are affected by regional and multilateral trade and economic integration agreements. The effects of trade and investment policy on the efficiency of resource use, on income distribution, and on national and global trade and economic welfare are analysed using trade theories and models of international trade and investment.

ECON 2001
Resource & Environmental Economics II

- 4 units - semester 2
- 2 lectures, 1 tutorial per week
- Available for Non-Award study
- Assumed Knowledge: ECON 1004 Principles of Microeconomics I
- Restriction: not available to students who have already passed ECON 2001 Environmental Economics II or ECON 3018A/B Environmental Economics E
- Assessment: project, essays, exam

This course is designed to demonstrate practical applications of economic analysis to a variety of environmental issues. The course aims to better understand how economics can help resolve environmental problems caused by human activity. The course's overall purpose is to increase understanding of the role of economics in environmental policymaking. A variety of local, regional and global issues are examined. The topics explored include: the optimal level of pollution; the extinction of species; the economics of renewable resources (fisheries and forests); the role of taxes, property rights and regulations; the linkages between economic development, sustainable growth, population pressure, and habitat preservation.

ECON 2004
Employment Relations II

- 4 units - semester 2
- 2 lectures, 1 tutorial a week
- Available for Non-Award study
- Assessment: exam, assignments

The course can be conceptually divided into two parts: employment relations theory and Australian employment relations practice. The first part will include the following topics: a review of the disparate theories of industrial relations; analysis of the employment relationship; the effort bargain and the ideology of work; conflict and its resolution; the role of the State; functions of management and unions; direct bargaining and arbitration. The second has a policy emphasis covering the development of Australia's industrial and employment relations system; the nature and role of trade unions, employer associations and peak councils; State regulation; the industrial tribunals and the judiciary; the pattern of wage settlement and policy; industrial and workplace bargaining; collective and individual bargaining; recent trends and likely changes of emphasis.

ECON 2005
Mathematical Economics II

- 4 units - semester 1
- 2 lectures; 1 tutorial a week
- Available for Non-Award study
- Students intending to proceed to the Honours degree in Economics will be expected to have successfully completed this course
- Assumed Knowledge: ECON 1004 Principles of Microeconomics I, ECON 1000 Principles of Macroeconomics I (may be taken concurrently)
- Assessment: exam, test

This course concentrates on the basic mathematical methods that are required to understand current economics and to investigate economic models. Topics may include optimisation with and without constraints; linear models; matrix algebra and introductory game theory.

ECON 2006
Economic and Financial Data Analysis II

- 4 units - semester 1 or 2
- 2 lectures, 1 tutorial a week
- Available for Non-Award study
- Prerequisite: ECON 1008 Business Data Analysis I, or STATS 1000 Statistical Practice I or equivalent
- Assumed Knowledge: ECON 1004 Microeconomics I and ECON 1000 Macroeconomics I (may be taken concurrently), Maths at least to level of ECON 1005 Mathematics for Economists I
- Restriction: cannot be counted with STATS 2002 Introduction to Mathematical Statistics II and STATS 2003 Statistical Practice II
- Assessment: empirical assignments, mid-term multiple choice test, final exam

This course provides an introduction to the techniques used to analyse economic and financial data sets. Throughout the course, we will focus on the ability to use and understand the methods involved without requiring rigorous mathematical foundations. The first half of the course involves an introduction to multiple regression analysis, which remains the most commonly used statistical technique in econometrics. In the second half of the course, we will consider aspects of modern time series analysis and forecasting that are commonly employed by practitioners in macroeconomics and finance. Basic computing skills using Excel will also be developed.

ECON 2007

Australian Economic History II

- 4 units - semester 2
- 2 lectures, 1 tutorial a week
- Available for Non-Award study
- Assumed Knowledge: ECON 1004 Principles of Microeconomics I and ECON 1000 Principles of Macroeconomics I (one may be taken concurrently)
- Assessment: tutorial work, essay, exams

The course covers the development of the Australian economy viewed in a comparative perspective. Emphasis is given to topics which provide relevant background to Australia's recent economic performance and current policy issues. These include structural changes, factor market performance, economic growth and fluctuations, governments and markets, regional disparities, international economic influences and economic wellbeing.

ECON 2009

Consumers, Firms & Markets II

- 4 units - semester 1 or 2
- 2 lectures, 1 tutorial a week
- Available for Non-Award study
- Prerequisite: ECON 1004 Principles of Microeconomics I
- Restriction: not available to students who have already passed ECON 2009 Microeconomics II
- Assessment: exam, other assessment

This course builds on the microeconomic principles studied in the Level I Economics courses and provides an analysis of the way in which the market system functions as a mechanism for coordinating the independent choices of individual economic agents. It develops a basis for evaluating the efficiency and equity implications of competition and other market structures, and a perspective on the appropriate role of government. Included are the study of consumer choice, production and cost, market structure, and market failure.

ECON 2011

Macroeconomic Theory & Policy II

- 4 units - semester 1 or 2
- 2 lectures, 1 tutorial a week
- Available for Non-Award study
- Prerequisite: ECON 1000 Principles of Macroeconomics I
- Restriction: not available to students who have already passed ECON 2011 Macroeconomics II
- Assessment: tutorial performance, mid-term exam, 3 hour exam

The first year macroeconomics course provided a broad overview of the subject area. In this course, the aim is to delve a little deeper into the subject. Macroeconomics is concerned with the behaviour of the economy as a whole. In particular it addresses the big issues which affect us on a day to day basis. As macroeconomists we want to know why some countries grow more quickly than others, why some experience high inflation while others have stable prices and why all countries experience recessions and booms. Furthermore, we want to know if government policy can have an impact on these factors.

The aim of Macroeconomics II is to provide these tools and give a deeper understanding of these issues. It is intended that this course leads on from the first year macroeconomics course and provides a smooth transition for those intending to pursue macroeconomics in later years.

ECON 2012

Financial Economics II

- 4 units - semester 1 or 2
- 2 lectures, 1 tutorial per week
- Available for Non-Award study
- Quota may apply
- Assumed Knowledge: CORPFIN 2006 Business Finance II
- Restriction: not available to students who have already passed ECON 2008 Financial Economics II
- Assessment: assignments, mid-term test, final exam

This course provides an overview of quantitative methods used in finance, considers risk aversion in the context of utility theory, examines the implications of the term structure of interest rates, introduces the basic capital asset pricing model, introduces futures/forwards pricing with applications to financial contracts, and introduces option valuation pricing.

Level III

ECON 3003

Resource & Environmental Economics III

- 4 units - semester 2
- 2 lectures, 1 tutorial per week
- Available for Non-Award study
- Assumed Knowledge: ECON 2009 Consumers, Firms & Markets II
- Restriction: not available to students who have already passed ECON 3003 Economic Theory and the Environment III
- Assessment: essays, exams, tutorials

This course aims to introduce students to key themes and debates in the management of natural resources in the process of development. There will be a particular, but not exclusive, focus on resource and environmental problems in less industrialised countries. The course will analyse some of the complex causes and environmental consequences of unsustainable development in

the developing world. Topics that may be covered include: market and institutional failures, the trade-development-environment nexus, the role of forests and biodiversity in development and more generally the role of natural resources in development.

ECON 3006
Development Economics III

- 4 units - semester 2
- 2 lectures, 1 tutorial a week
- Available for Non-Award study
- Assumed Knowledge: ECON 2011 Macroeconomic Theory & Policy II, ECON 2009 Consumers, Firms & Markets II (one may be taken concurrently)
- Assessment: exam, work completed during course

The course is concerned with the economics of less-developed countries. Topics to be discussed include: the meaning and measurement of development, demographic change, industrialisation, trade, foreign aid and investment, poverty and income distribution, agricultural development and relevant growth theories.

ECON 3013
Applied Econometrics III

- 4 units - semester 1
- 2 lectures, 1 tutorial a week
- Available for Non-Award study
- Students intending to proceed to Honours degree or Master of Economics will be expected to have successfully completed this course or ECON 3023 Econometrics III
- Prerequisite: ECON 2006 Economic & Financial Data Analysis II or equivalent
- Assessment: final exam, tutorial participation, performance, project using techniques developed

The course aims to develop an understanding of standard econometric methods, a capacity to formulate research problems so that they are amenable to quantification and a capacity to assess empirical research in economics critically. Tutorials will involve applications of econometric methods which use packaged programs.

ECON 3016
Strategic Thinking for Decision Making III

- 4 units - semester 2
- 2 hour lecture, 1 hour workshop per week
- Available for Non-Award study
- Assumed Knowledge: ECON 2009 Consumers, Firms, and Markets II
- Assessment: assignments, final exam

This course covers topics in rational decision-making. Basic decision theory is used to analyse optimal behaviour in environments of perfect information, and under risk and uncertainty. In order to analyse optimal behaviour in situations where economic agents interact, basic concepts of game theory are introduced. The main focus of the course is the application of the theory to business and management situations. Topics may include investment, pricing, bargaining, strategic capacity choice, and coordination.

ECON 3017
Labour Economics III

- 4 units - semester 1
- 2 lectures, 1 tutorial a week
- Available for Non-Award study
- Assumed Knowledge: ECON 2009 Consumers, Firms & Markets II
- Assessment: two midterms 25% each, final exam 50%

This course is designed to introduce students to economic models of the labour market, both theoretical and empirical. Illustrations from current policy debates are used. After completing this course, students will be able to describe key features of the labour market, analyse models of the labour market in order to make predictions concerning the impact of public policy recommendations, and evaluate existing data relating to these predictions. Topics include the supply of labour and accumulation of human capital; demand for labour in competitive and non-competitive markets; labour unions; the determination of equilibrium wages; wage discrimination; policies such as minimum wage laws, welfare reform, and trade.

ECON 3018
Environmental Economics E III

- 3 units - semester 2
- 2 lectures, 1 tutorial per week
- Eligibility: Civil & Environmental Engineering students only
- Prerequisite: C&ENVENG 3067 Environmental Science & Policy
- Assessment: project, essays, exam

This course is designed to demonstrate practical applications of economic analysis to a variety of environmental issues. The course aims to better understand how economics can help resolve environmental problems caused by human activity. The course's overall purpose is to increase understanding of the role of economics in environmental policymaking. A variety of local, regional and global issues are examined. The topics explored include: the optimal level of pollution; the extinction of species; the economics of renewable resources (fisheries and forests); the role of taxes, property rights and regulations; the linkages between economic development, sustainable growth, population pressure, and habitat preservation.

ECON 3021
International Trade III

- 4 units - semester 2
- 2 lectures, 1 tutorial per week
- Available for Non-Award study
- Assumed Knowledge: ECON 2009 Microeconomic Theory & Policy II
- Assessment: mid-term test, final exam, tutorial presentations

This course deals with the theory and practice of international trade and of trade-related policies. It focuses on analysing the gains from trade, the changing patterns of trade, the income distributional consequences of liberalising foreign trade, the relationship between trade, investment, and economic growth, and the reasons for and consequences of trade policies.

ECON 3023
Econometrics III

- 4 units - not offered in 2005
- 2 lectures, 1 tutorial a week
- Available for Non-Award study
- Students intending to proceed to the Honours degree or Master of Economics will be expected to have successfully completed this course or ECON 3013 Applied Econometrics III
- Prerequisite: Credit standard in ECON 2006 Economic & Financial Data Analysis or equivalent
- Assumed Knowledge: ECON 2009 Consumers, Firms & Markets II or ECON 2011 Macroeconomic Theory & Policy II and MATHS 1007A/B Mathematics I or MATHS 1000A/B Mathematics IM or ECON 2005 Mathematical Economics II
- Assessment: project, final exam

The objective of this course is to integrate economic models and econometric methods. Particular attention is paid to the relationship between economic and statistical models in selecting the appropriate econometric tools, and on the interpretation of the resulting statistics. Topics covered include single equation estimation under the statisticians ideal conditions, and econometric methods to deal with the violation of these conditions, and estimation of simultaneous equation models.

ECON 3024
Public Economics III

- 4 units - semester 1
- 2 lectures, 1 tutorial a week
- Available for Non-Award study
- Assumed Knowledge: ECON 2009 Consumers, Firms & Markets II
- Assessment: exam, other assessments

This course investigates the role of the public sector in the economic arena. We will attempt to explain why government intervention is needed, how it influences the behaviour of the private sector, what the welfare effects of such influences are, and so on. We will also survey political economy, which regards actions of the public sector as determined by a political process. Topics covered will include welfare economics, market failures, tax and expenditure, and political economy.

ECON 3027
Environmental Economics ES III

- 4 units - not offered in 2005
- 2 lectures, 1 tutorial per week
- Eligibility: Environmental Science students only
- Assessment: project, essays, exam

This course is designed to demonstrate practical applications of economic analysis to a variety of environmental issues. The course aims to better understand how economics can help resolve environmental problems caused by human activity. The course's overall purpose is to increase understanding of the role of economics in environmental policymaking. A variety of local, regional and global issues are examined. The topics explored include: the optimal level of pollution; the extinction of species; the economics of renewable resources (fisheries and forests); the role of taxes, property rights and regulations; the linkages between economic development, sustainable growth, population pressure, and habitat preservation.

ECON 3030
International Economic History III

- 4 units - semester 1
- 2 lectures, 1 tutorial per week
- Available for Non-Award study
- Assumed Knowledge: ECON 2009 Consumers, Firms & Markets II, ECON 2011 Macroeconomic Theory & Policy II (may be taken concurrently)
- Assessment: tutorial work, essay, exams

The course surveys the evolution of the international economy in the 20th century. Attention is given to the development of world trade and trade policies, the international monetary system, international capital movements, the interwar depression, the postwar boom and the first and second periods of 'globalisation'. An examination is made of selected topics from the historical experience of the major industrial economies, especially the United States, which are relevant to an understanding of their current economic problems.

ECON 3032

International Finance III

- 4 units - semester 1
- 2 lectures, 1 tutorial a week
- Available for Non-Award study
- Assumed Knowledge: ECON 2011 Macroeconomic Theory & Policy II, ECON 2009 Consumers, Firms & Markets II, and either ECON 2006 Economic & Financial Data Analysis II or both STATS 2002 Introduction to Mathematical Statistics II and STATS 2003 Statistical Practice II
- Assessment: tutorial work and final exam

This course deals with the analysis of two important and related macroeconomics issues in open economies: the exchange rate and the capital flows. The objectives of the course are two-fold: to introduce main concepts, principles and models in the theory and empirical works in those two key areas of International Finance; to apply the analytical tools to understand the relevant policy issues in the global markets. Based on additional reading materials (mostly from The Economist (weekly magazine)), discussions on relevant current events from various parts of the globe will be carried out.

ECON 3034

Economic Theory III

- 4 units - semester 2
- 2 lectures, 1 tutorial a week
- Available for Non-Award study
- Students intending to proceed to Honours or Master of Economics will be expected obtain credit or better in this course - students who have previously completed either 4466 Macroeconomics III or 3658 Microeconomics III and wish to undertake the additional theory component, should consult the Economics Student Adviser
- Prerequisite: Credit in ECON 2009 Consumers, Firms & Markets II and ECON 2011 Macroeconomic Theory & Policy II
- Assessment: test, exam

This subject deals with additions to, and extensions of aspects of economic theory covered in ECON 2011 Macroeconomics II/ECON 2009 Microeconomics II. Topics covered include general equilibrium and welfare economies, extensions of consumption and production theory, open economy models, the role of wealth, expectations, government budget and quantity constraints, game theory.

ECON 3035

Money, Banking and Financial Markets III

- 4 units - semester 1
- 2 lectures, 1 tutorial per week
- Available for Non-Award study
- Assumed Knowledge: ECON 2011 Macroeconomic Theory and Policy II or ECON 2012 Financial Economics II
- Assessment: mid-term tests, final exam, assignments

This course links the fields of macroeconomics and finance. It provides coverage of economic principles that underlie the operation of banks and other financial institutions. The role of money in the economy and the impact of monetary policy on the macroeconomy are emphasised, as is understanding the foreign exchange market and some basics of international finance. More broadly, this course will develop simple economic tools which will allow students to systematically analyse some of the important monetary and financial problems and developments in the world economy (such as crises in emerging economies).

Honours

ECON 4003

Honours Economics

- 24 units - full year
- contact hours to be advised- arrangements for classes will depend on enrolments and students are advised to communicate with the Honours Coordinator before February
- Eligibility: Economics Honours students only
- Prerequisite: all requirements for the degree of B.Ec. (or its equiv.) including ECON 3034 Economic Theory III and either ECON 3023 Econometrics III or ECON 3013 Applied Econometrics III (or equivs.) before proceeding to the Honours degree, plus a high standard in courses presented for the degree usually would include a credit or better in Economic Theory III, one econometrics course, at least one other level III economics course
- Assumed Knowledge: students may proceed without ECON 2005 Mathematical Economics II (or MATHS 1007A/B Mathematics I or MATHS 1000A/B Mathematics IM), only with the approval of the Head of School or his/her nominee
- Assessment: paper in each of Microeconomics, Macroeconomics (examined in June), papers in optional courses, thesis

Arrangements are possible for joint honours combining Economics with study in another department/centre. Details are available from the Head of the School of Economics or Honours Coordinator.

Honours students are required to undertake a research project and present a thesis of no more than 12,000 words. The thesis counts for either 37.5% or 25% of the year's assessment, depending on whether three or four optional courses, respectively, are selected under clause (see below). Students are expected to commence work on the thesis no later than the first week of February. The thesis is to be completed and presented, typed and bound, towards the end of second semester: the exact date is notified in February.

Students will be expected to present themselves for an oral exam on their thesis at a date towards the end of the University's November examination period. Each student is required to

undertake the courses Microeconomics and Macroeconomics, given in first semester. Students will select three or four options from a range of courses which, subject to staff availability and sufficient enrolments, may include the following*:

Econometrics

Economic Development

International Finance

International Trade

Labour Economics

Long Run Growth

Mathematical Economics

Public Economics

* classes in these courses take place in semester 1 or 2

ECON 4005

Honours Finance

- 24 units - full year
- contact hours to be advised
- Eligibility: Finance Honours students only
- Prerequisite: requirements for the degree of B.Fin. (or equivalent) including ECON 3023 Econometrics III, and high standard in courses presented for the degree
- Requirement: (a) Honours students are required to undertake a research project and present a thesis. The thesis, part of the final honours examination, counts for between 25% and 50% of the year's assessment; (b) each student will select compulsory and optional courses from a range of Honours level courses from various Schools (it will be assumed usually that students will have appropriate prerequisites for these courses)

Detailed arrangements for classes will depend on enrolments and students are advised to communicate with the Honours Coordinator before February. Students may express an interest of admission in writing to the Honours Coordinator and will be admitted by invitation in November. Students admitted to the program will be given a handbook with full details of expectations and details of courses.

Arrangements are possible for joint honours combining study in Finance with study in another Department/School. Details are available from the Honours Coordinator.

Education

Level I

EDUC 1000

Primary School Interaction

- 3 units - semester 2
- 3 hours per week (or equiv.), including seminars, teaching placement
- Eligibility: B.Teaching students only
- Assessment: completion of observation journal and series of reflective exercises

This course will require students to complete 10 half days of observation and experience in a primary school selected for them. In addition, there will be 3 half-day seminars associated with this experience.

Level II

EDUC 2000

Issues in Contemporary Education

- 4 units - semester 1
- 2 hours per week
- Eligibility: B.Teaching students only
- Prerequisite: Primary School Interaction
- Assessment: essays, assignments

This course will focus on understanding some of the important issues facing education today. It will also introduce student to theories which help to explain and provide practical approaches to dealing with these issues in the schools context.

Level III

EDUC 3000

Secondary School Interaction

- 2 units - not offered in 2005
- 2 hours per week and teaching placement
- Eligibility: B.Teaching students only
- Assessment: observation journal, reflective exercises

This course will require students to complete the equivalent of 5 days observation and experience in a secondary school at a time and in a school to be negotiated. In addition there will be 2-3 half-day seminars associated with this experience.

Level IV

EDUC 4300
Teaching Practice UG Part 1

- 3 units - not offered in 2005

Students will undertake one block of supervised teaching practice. Students who successfully complete the course are given a non-graded pass.

EDUC 4301
Teaching Practice UG Part 2

- 3 units - not offered in 2005

Students will undertake one block of supervised teaching practice. Students who successfully complete the course are given a non-graded pass.

EDUC 4302
Curriculum and Methodology A

- 3 units - not offered in 2005
- 6-7 hours per week
- Eligibility: B.Teaching students only
- Prerequisite: pre/corequisites in students' related teaching area - see department for details
- Assessment: essays, assignments relating to each teaching area - student must satisfy requirements in each teaching area to pass course

In this course students will be introduced to the curriculum requirements, content and teaching approaches related to the teaching areas for which their previous university studies have qualified them.

EDUC 4303
Curriculum and Methodology B

- 3 units - not offered in 2005
- 6-7 hours per week
- Eligibility: B.Teaching students only
- Prerequisite: pre/corequisites in students' related teaching area - see department for details
- Assumed Knowledge: Curriculum and Methodology A
- Assessment: essays, assignments relating to each teaching area - student must satisfy requirements in each teaching area to pass the course

In this course students will further extend their understanding of the curriculum requirements, content and teaching approaches related to the teaching areas for which their previous university studies have qualified them.

EDUC 4304
Advanced Educational Studies A

- 3 units - not offered in 2005
- 2-3 hours per week
- Eligibility: B.Teaching students only
- Assessment: essays, assignments

This course involves an analysis of sociological and psychological theories as they relate to student learning.

EDUC 4305
Advanced Educational Studies B

- 3 units - not offered in 2005
- 2-3 hours per week
- Eligibility: B.Teaching students only
- Assessment: essays, assignments

This course involves further analysis of sociological and psychological theories as they relate to student learning.

EDUC 4306
Curriculum Issues in Australian Schools A

- 3 units - not offered in 2005
- 3-4 hours per week
- Eligibility: B.Teaching students only
- Assessment: essays, assignments

This course analyses curriculum theories and curriculum development in relation to Australian classrooms.

EDUC 4307
Curriculum Issues in Australian Schools B

- 3 units - not offered in 2005
- 3-4 hours per week
- Eligibility: B.Teaching students only
- Assessment: essays, assignments

This course investigates practical examples of curriculum development in relation to South Australian schools.

EDUC 4700

Families, Schools and Students' Outcomes (UG)

- 2 units - semester 1
- 2 hours per week
- Assessment: 2000 word essay

This course will examine family and school learning environments, as well as issues of gender and religion, as they affect students' learning outcomes at school.

EDUC 4701

Educational Psychology A (UG)

- 2 units - semester 1
- 3 hours per week
- Assessment: practical exercises and written assignments

This course introduces various psychological approaches used in secondary education. Connection is made between these approaches and the practical strategies required for competence in the classroom environment.

EDUC 4702

Teaching Practice I (UG)

- 3 units - semester 1 or 2
- Pre/corequisite: at least one Curriculum and Methodology course

Students will undertake one block of supervised teaching practice. Students who successfully complete the course are given a non-graded pass.

EDUC 4703

Teaching Practice II (UG)

- 3 units - semester 1 or 2
- Pre/corequisite: at least one Curriculum and Methodology course

Students will undertake one block of supervised teaching practice. Students who successfully complete the course are given a non-graded pass.

EDUC 4704

Curriculum Frameworks (UG)

- 2 units - semester 1
- 4 hours per week
- Assessment: ICT based assignment

This course introduces students to the various curriculum frameworks currently used for teaching in secondary schools in South Australia, as well as recent developments in State and National curricula. There is a special focus on the role of ICT in the planning and delivery of curriculum in the classroom.

EDUC 4705

Curriculum Perspectives (UG)

- 2 units - semester 2
- 3-4 hours per week
- Assessment: 1000 word essay or assignment, group presentation

This course will introduce students to examples of curriculum perspectives which are being put into practice in different schools. In the second part of the semester, they will be able to choose to focus on one theoretical and one practical topic from a number of options announced at the beginning of the semester.

EDUC 4706

Educational Psychology B (UG)

- 2 units - semester 2
- 3 hours per week
- Assessment: practical exercises and written assignments

This course deepens psychological understanding for secondary education in the areas of learning theory, student characteristics and the positive classroom environment.

EDUC 4707

Culture, Education and Society (UG)

- 2 units - semester 2
- 2 hours per week
- Assessment: 2000 word essay

This course will introduce students to different models of society and the way they influence educational policy. In particular, a consideration of various models of culture will lead to issues of cultural and linguistic pluralism in education.

Engineering

Engineering - Chemical

Level I

CHEM ENG 1000
Process Systems

- 2 units - semesters 1 & 2
- 30 hours lectures, tutorials
- Eligibility: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assumed knowledge: SACE Stage 2 Mathematical Studies and Specialist Mathematics, Physics
- Assessment: written exam, performance in tutorial classes and class assignments - full details advised at beginning of course

An introduction to process engineering and its uses in society, industry and the environment. Basic measurement and conservation principles for mass and energy are applied to solving simple scientific and engineering problems, eg in food processing, biotechnology, oil refining, burning fuels, electrical power generation, waste treatment and fluid flow.

CHEM ENG 1001
Introduction to Process Engineering

- 3 units - semester 1
- 6 hours lecture/tutorials, practicals per week
- Eligibility: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assumed knowledge: Stage 2 Mathematical Studies
- Assessment lab. reports, assignments, exams

Fundamental concepts: force, work, power, energy, pressure. Motion: linear motion, circular motion, momentum, friction. Fluids: principles of hydrostatics, elementary hydrodynamics, properties of fluids, fluid pumping. Stress analysis: stress, strain, deformation and failure in elementary components. Electricity and magnetism: physiology of electric shock, elementary DC and AC circuit, DC and AC motors, introduction to electronics.

CHEM ENG 1002
Engineering Computing I

- 2 units semester 1 & 2
- 32 hours lectures & practical/tutorial classes
- Eligibility: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assumed knowledge: SACE Stage 2 Mathematical Studies and Specialist Mathematics, Physics
- Assessment: written exam, tests; performance in computer-aided teaching suite; development & use of software for solving problems relevant to engineering

Introductory computing: Introductory Programming (ANSI'C'); introduction to engineering applications-oriented software.

CHEM ENG 1003
Materials I

- 2 units - semester 2
- 30 hours lectures, laboratory
- Eligibility: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assumed knowledge: SACE Stage 2 Mathematical Studies and Specialist Mathematics, Physics
- Assessment: written exam, performance in laboratory classes - full details at beginning of course

The mechanical properties of materials, the distinction between elastic and plastic deformation of crystalline solids, the theoretical strength of crystalline solids, dislocations. Rheological properties of materials, models of viscoelastic behaviour. The formation of crystalline solids. Direct observation of the microstructure of materials. The Gibbs phase rule and its application to the interpretation of phase diagrams. Phase transformations under equilibrium and non-equilibrium conditions with particular reference to binary systems of special engineering significance. The failure of materials in engineering service. Polymers and composites.

CHEM ENG 1004
Introduction to Bio-Processing

- 3 units - semester 1
- 3 hours lectures, 2 hours tutorials/practical classes
- Eligibility: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assumed knowledge: SACE Stage 2 Mathematical Studies and Specialist Mathematics, Physics
- Assessment: written exam, performance in tutorial classes & class assignments - complete details at commencement of course

Introductory computing and programming in ANSI C; the elements of databases; elementary concepts and tools used in bioinformatics. Simple process engineering concepts are introduced and their application in society, industry and the environment will be illustrated. Basic measurement and conservation principles for mass and energy are applied to solve simple problems e.g. in food processing, biotechnology, fuel combustion and energy generation, fluid flow and waste treatment.

CHEM ENG 1005
Process Heat Transfer

- 2 units - semester 2
- 36 hours lectures, tutorials
- Eligibility: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assumed knowledge: CHEM ENG 1000 Process Systems
- Assessment: exam, up to 20% for class work

The study of heat transfer by conduction, convection and radiation in chemical process systems. The topics include problem solution by analytical as well as numerical methods. Theoretical and practical aspects of design are discussed.

Level II

CHEM ENG 2000
Chemical Engineering Thermodynamics

- 2 units - semester 2
- 48 hours lectures, tutorials
- Eligibility: only BE.(Chem.)students admitted to LL.B, combined BE(Chem.)/B.Ec, BE.(Chem.)/B.Fin, BE(Chem.)/B.Sc, BE.(Chem - Energy & Env.)
- Assumed knowledge: CHEM ENG 1000 Process Systems
- Assessment: assignments, final exam

Conservation of mass and energy; entropy; thermodynamics properties of real gases; multicomponent mixtures; phase equilibrium in mixtures; equilibrium for reacting systems; analysis of power and refrigeration cycles.

CHEM ENG 2001
Chemical Process Principles II

- 3 units - semester 1
- 60 hours lectures, tutorials, practical work
- Eligibility: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assumed knowledge: MATHS 1011/1012 Mathematics IA /IB, CHEM ENG 1000 Process Systems
- Assessment: assignments, final exam, process design report

Chemical process principles: process calculations (material and energy balance calculations); numerical solution of mass and energy balances. Introductory design project based on lecture materials.

CHEM ENG 2003
Introductory Process Fluid Mechanics

- 3 units - semester 1
- 48 hours lectures, tutorials
- Eligibility: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assumed knowledge: MATHS 1011/1012 Mathematics IA /IB, CHEM ENG 1000 Process Systems
- Assessment: exam, up to 20% for classwork

The statics and dynamics of fluids. Considerable emphasis is placed on the solutions of fluid flow problems frequently encountered in the process industries.

CHEM ENG 2006
Plant and Process Engineering

- 2 units - semester 2
- 36 hours lectures, tutorials
- Eligibility: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assessment: project report, exam

Lectures on the principles of process design and plant engineering. An introductory design project, focussing on mass and energy balances, is undertaken.

CHEM ENG 2007
Essay and Seminar (Environmental)

- 2 units - not offered in 2005
- Tutorials, discussion with supervisor
- Eligibility: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assessment: 4000 word essay 50%, presentation 50%

Essay to be researched and prepared on a topic relating to the environment assigned by the Department. Seminar presentation on essay topic.

CHEM ENG 2008
Essay and Seminar (Food, Wine & Biotechnology)

- 2 units - not offered in 2005
- Tutorials, discussion with supervisor
- Eligibility: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assessment: 4000 word essay 50%, presentation 50%

Essay to be researched and prepared on a topic relating to the food, wine & biotechnology industries assigned by the Department. Seminar presentation on essay topic.

Level III

CHEM ENG 3001
Materials III(CH)

- 2 units - semester 1
- 36 hours lectures, tutorials
- Eligibility: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Prerequisite: CHEM ENG 1003 Materials I
- Assessment: assignments, laboratory work, exam

Mechanical and rheological properties of materials. Role of dislocations and imperfections. Case studies in phase transformations. Polymers and composites. Fracture behaviour of materials. Merit indices and material selection. Electrochemical engineering including corrosion and corrosion prevention, electroplating, electromachining, fuel cells, energy storage and electrochemical synthesis. High temperature oxidation.

CHEM ENG 3002
Essay and Seminar

- 2 units - semester 2
- Tutorials, discussion with supervisor
- Eligibility: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assessment: 4000 word essay 50%, presentation 50%

Essay to be researched and prepared on a topic of general interest assigned by the Department. Seminar presentation on essay topic.

CHEM ENG 3003A/B
Chemical Engineering Projects III

- 4 units - full year
- 108 hours lectures, tutorials, practical work
- Eligibility: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Prerequisite:CHEM ENG 2001A/B Chemical Process Principles II and CHEM ENG 2004 Chemical Engineering Projects II(N)
- Assumed knowledge:CHEM ENG 2002 Process Heat Transfer, CHEM ENG 2003 Introductory Process Fluid Mechanics
- Corequisite: CHEM ENG 3015 Process Control and Instrumentation, CHEM ENG 3018 Fluid and Particle Mechanics, CHEM ENG 3017 Kinetics & Reactor Design, CHEM ENG 3006 Transport Phenomena
- Assessment: project reports, assignments, final exam - details at beginning of course

A laboratory program illustrating principles of transport theory, fluid mechanics, unit operations, process dynamics and control and kinetics and reactor design; and a lecture course on report writing, project and people management, and data analysis.

CHEM ENG 3004
Engineering Communication ESL (H)

- 2 units - semester 1 & 2
- 36 hours lectures, discipline-specific language tutorials
- Eligibility: International students from language backgrounds other than English who presented English language score (IELTS or TOEFL) for admission, or who entered via a Foundation Studies Program; students resident in Australia whose admission was based on Year 12 matriculation studies in a language other than English or who were eligible to take an ESL unit in Year 11 or 12
- Restriction: not to be counted together with PURE MTH 3016 Communication Skills (ESL) or MATHS 3015 Communication Skills
- Corequisite: students must be enrolled in an Engineering program
- Assessment: 2 written assignments 55%, informal & formal oral presentations 35%, tutorial participation, regular weekly language work & attendance 10%

The course provides language development in English as a second language for the purposes of oral and written communication in the context of the study of Engineering. It introduces linguistic principles as tools to assist communication in English as a second language and in cross-cultural settings. Class work is designed to develop the capacity of students for communication (in speaking, listening, writing and reading) relevant to their current studies and intended careers in the fields of engineering and computing. Language development tasks are project-based and require students to take themes chosen from the disciplines in which they are enrolled. Tasks and assignments are focussed on technical writing, preparing reports, reading, informal technical discussion and formal oral presentation.

CHEM ENG 3005
Separation Processes

- 2 units - semester 2
- 36 hours lectures, tutorials
- Eligibility: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assumed knowledge: CHEM ENG 2001A/B Chemical Process Principles II
- Assessment: assignments, exam

Stage-wise and continuous contact processes; single and multi-stage operation; use of reflux; analysis and design. Processes considered include: liquid-liquid extractions, leaching, stripping, gas absorption, and distillation.

CHEM ENG 3006
Transport Phenomena

- 2 units - semester 2
- 36 hours lectures, tutorials
- Eligibility: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assumed knowledge: 6 units of Level II Applied Mathematics courses
- Assessment: assignments, exam

An introduction to the transfer of momentum, thermal energy and mass by molecular means using shell balance and conservation equations. Turbulent transport and boundary layer methods are also discussed.

CHEM ENG 3007WA

CHEM ENG 3007WT
Winery Engineering III

- 3 units - semester 1
- 2 lectures, 1 tutorial, 3 hours practical/project exercises per week
- Eligibility: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assumed knowledge: AGRONOMY 2012RW Engineering Science or CHEM ENG 1001 Engineering Physics, or equivalent
- Assessment: final exam, tutorials, project work, laboratory reports

Process calculations (mass and energy balances), process utilities (refrigeration, process heating and cooling), steam systems, electrical power systems, heat transfer and heat exchangers, must, juice and wine transfer methods, centrifugation and filtration, process control and instrumentation.

CHEM ENG 3010
Introduction to Biochemical Engineering

- 2 units - semester 1
- 45 hours lectures, tutorials, practical work
- Eligibility: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assessment: exam, assignments

Introduction to the fundamentals of microbiology; proteins and enzymes; kinetics of enzyme-catalyzed reactions; applied enzyme catalysis; industrial enzyme processes.

CHEM ENG 3011
Transport Processes in the Environment

- 2 units - semester 1
- 36 contact hours comprising lectures, tutorials
- Eligibility: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assumed knowledge: CHEM ENG 1000 Process Systems
- Assessment: exam 80%, assignments 20%

Introduction and basic concepts. Environmental chemicals and properties. Thermodynamics and phase equilibria. Loss Mechanisms. Inter-media transport. Simple exchange models. Air pollution problems. Nuclear chemistry. Environmental modelling. Plume dispersion. Simple kinetic models.

CHEM ENG 3014
Process Design and Plant Engineering

- 2 units - semester 2
- 54 hours lectures, tutorial & 3 hour practicals
- Eligibility: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Prerequisite: CHEM ENG 2001A/B Chemical Process Principles II, CHEM ENG 2004 Chemical Engineering Projects II(N)
- Assessment: project report, exam

Principles of process design and plant engineering. An introductory design project is solved using computer-aided process design techniques. Lectures on electrical safety, selection of electrical machines, electrical distribution and process design.

CHEM ENG 3015
Process Control and Instrumentation

- 2 units - semester 2
- 36 hours lectures, tutorials
- Eligibility: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assumed knowledge: 6 units of Level II Applied Mathematics courses, CHEM ENG 2001A/B Chemical Process Principles II
- Assessment: assignments, exam

Control: introduction to linear process control, including analysis of first and second order process systems dynamics and control. Instrumentation: topics include commonly used primary sensing elements, signal transmission for digital and analogue systems, final control elements.

CHEM ENG 3017
Kinetics and Reactor Design

- 3 units - semester 1
- 48 hours lectures, tutorials
- Eligibility: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assumed knowledge: 6 units of Level II Applied Mathematics courses, CHEM 2104 Chemistry IIAE, CHEM 2204 Chemistry IIBE
- Assessment: assignments, exam

The theory of simple and complex chemical kinetic systems and their application to the design of commercial-scale reactors.

CHEM ENG 3018
Fluid and Particle Mechanics

- 3 units - semester 1
- 48 hours lectures, tutorials
- Eligibility: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Prerequisite: CHEM ENG 2003 Introductory Process Fluid Mechanics
- Assessment: assignments, exam

Description of particulate systems. Multiphase systems: fundamentals and application to design and analysis of physical separation and transport processes.

Level IV

CHEM ENG 4001
Special Studies in Chemical Engineering

- 2 units - semester 1 or 2
- 36 hours lectures, tutorials (or equivalent)
- Eligibility: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assumed knowledge: as prescribed by Head, Chemical Engineering
- Assessment: may include written assignments and/or exam - further details available at beginning of semester

Special topics in Chemical Engineering as determined by the Head of the Chemical Engineering School. This course may be offered from time to time and will be taught by visiting academic/s.

CHEM ENG 4002A/B
Chemical Engineering Research Elective II

- 4 units - full year
- 200 hours practical work, seminar
- Eligibility: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Restriction: by permission of Head, Chemical Engineering
- Assessment: project report, seminar

Candidates are required to: complete satisfactorily a research project and submit a written report on a topic specified by the school; present a short seminar on their project results at the end of semester 2.

CHEM ENG 4003
Process Dynamics and Control

- 2 units - semester 1
- 36 hours lectures, tutorials
- Eligibility: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assumed knowledge: CHEM ENG 3015 Process Control and Instrumentation
- Assessment: assignments, exam

The principles of process dynamics, stability and design of process control loops, overall plant control, and digital control systems. The theory is developed to a stage where it may be applied to a wide variety of practical problems in design and operation of chemical process plant.

CHEM ENG 4004
Minerals Processing

- 2 units - semester 1
- 36 hours lectures, tutorials
- Eligibility: students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assessment: assignments, exam

The application of chemical engineering principles to minerals processing operations, including flotation, size reduction, gravity separation and hydrometallurgy.

CHEM ENG 4005
Thermal Process Synthesis and Integration

- 2 units - not offered in 2005
- 36 hours lectures , tutorials
- Eligibility: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assumed knowledge: CHEM ENG 2001A/B Chemical Process Principles II
- Assessment: assignments, exam

Design and synthesis of HEN (heat exchanger networks) including evolutionary and algorithmic methods. Integration of power, work, separation and energy systems. Flexibility and operability studies; retrofit situations.

CHEM ENG 4006
Special Management Studies

- 2 units - not offered in 2005
- 36 hours lectures, tutorials
- Eligibility: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assessment: assignments, exam

Specialist management topics, including quality improvement through the application of statistical methods.

CHEM ENG 4007
AI Applications in Engineering Design

- 2 units - not offered in 2005
- 36 hours lectures, tutorials
- Eligibility: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assessment: assignments, exam

The application of artificial intelligence techniques to engineering design. Topics include: rule-based systems, forward and backward chaining; list processing; the elements of heuristic search.

CHEM ENG 4008
Biochemical Engineering

- 2 units - semester 1
- 36 hours lectures, tutorials
- Eligibility: students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assessment: assignments, exam

A review of fundamentals of microbiology; the growth curve; kinetics of substrate utilisation, product formation, bio-mass production in cell cultures and inactivation (death) of cells; design and analysis of biological reactors, bio-reactors, sterilisation reactors, applications; product recovery operations; bio-process economics.

CHEM ENG 4009
Advanced Chemical Engineering

- 2 units - semester 1
- 36 hours lectures, tutorials
- Eligibility: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assumed knowledge: CHEM ENG 3018 Fluid and Particle Mechanics; CHEM ENG 3006 Transport Phenomena
- Assessment: assignments, exam

Topics on advanced chemical engineering selected from the fields of reaction engineering and fluid and particle technology.

CHEM ENG 4010
Advanced Separation Techniques & Thermal Processes

- 2 units - semester 1
- 36 hours lectures, tutorials
- Eligibility: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assumed knowledge: material contained in Level I-III courses in B.E.(Chem.) program, CHEM ENG 3005 Separation Processes.
- Assessment: exam, classwork up to 20%

Application of fundamental principles to the analysis of chemical process unit operations for design and operational management.

CHEM ENG 4011
Reaction Engineering

- 2 units - not offered in 2005
- 36 hours lectures, tutorials
- Eligibility: students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assessment: assignments, exam

The study of advanced kinetics and reactor design in chemical processing systems, including temperature and pressure effects in reactors and fundamental design strategies for heterogeneous reactor systems.

CHEM ENG 4013
Biomedical Engineering

- 2 units - not offered in 2005
- 36 hours lectures, tutorials
- Eligibility: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assessment: assignments, exam

An introductory course on the application of engineering knowledge and principles in the medical area. Topics include engineering in orthopaedics; biomechanics; tissue and spinal mechanics; materials; lasers, radiography; magnetic resonance imaging; nuclear medicine; medical ultrasound and image processing.

CHEM ENG 4014
Plant Design Project

- 6 units - semester 2
- 184 hours lectures, tutorials, practical work
- Eligibility: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Corequisite: CHEM ENG 4010 Advanced Separation Techniques and Thermal Processes

- Assumed knowledge: CHEM ENG 3014 Process Design and Plant Engineering
- Assessment: assignments, exam

Topics comprise sources and estimation of data, costing and economic analysis of alternative proposals, the application of Process Engineering and Operations Research techniques to the selection, sizing, design and optimisation of equipment and processes (including utilities), project scheduling and control, and plant operation and safety considerations. Project: the project involves the economic comparison of alternative processes for the manufacture of a nominated chemical product, the study of a selected process, calculation of material and energy balances, preparation of flow sheets, design of selected plant items, an assessment of factors affecting plant safety, estimation of plant cost and process economics, preparation of a design report and drawing of plant lay-out.

CHEM ENG 4015
Hydrocarbon Reservoirs

- 2 units - not offered in 2005
- 36 hours lectures, tutorials
- Eligibility: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assumed knowledge: CHEM ENG 3018 Fluid and Particle Mechanics
- Assessment: assignments, exam

Introduction to broad concepts of petroleum geology, evaluation of the production capabilities of hydrocarbon reservoirs using well log data, geophysical basin characteristics and mathematical and physical models of porosity and permeability.

CHEM ENG 4016
Advanced Materials Engineering

- 2 units - not offered in 2005
- 36 hours lectures, practical/tutorial work
- Eligibility: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assumed knowledge: CHEM ENG 1003 Materials I, CHEM ENG 3001 Materials III(CH)
- Assessment: assignments, laboratory work, exam

The selection and fabrication of materials for engineering applications including corrosive and high temperature environments, structural and low alloy steels, the relation of structural variable sin polymers to their engineering properties, engineering properties of specific polymers. Processing and selection of plastics.

CHEM ENG 4017
Particulate Technology

- 2 units - not offered in 2005
- 36 hours lectures, tutorials
- Eligibility: students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assessment: assignments, exam

A course describing the behaviour of particulate systems. Topics include: particle size distributions; sampling; population balances; kinetics of growth, aggregation and breakage; mixing of particulates and stress distributions in granular solids.

CHEM ENG 4018
Industrial Economics and Management

- 2 units - semester 2
- 36 hours lectures, tutorials
- Eligibility: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assessment: assignments, exam

The life cycle of a chemical processing system from the research and development behind the initial concept through process design construction and operations management. Topics covered include patents, capital investment evaluation, construction planning and control, cost planning and control, process optimisation, basic management principles and a general treatment of the structure and environment of industry.

CHEM ENG 4020A/B
Chemical Engineering Research Elective

- 2 units - full year
- 150 hours practical work/seminars
- Eligibility: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling

Candidates are required to: complete satisfactorily a research project and submit a written report on a topic specified by the school; present a short seminar on their project results at the end of semester 2.

CHEM ENG 4021
Combustion Processes

- 2 units - semester 1
- 36 hours lectures, tutorials
- Eligibility: students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assessment: assignments, exam

Basic principles which form the background to combustion phenomena. Topics include explosions in closed vessels, flames and combustion waves, detonation waves in gases, combustion of hydrocarbons, combustion in mixed and condensed phases, high explosives, heating applications, combustion and the environment.

CHEM ENG 4022
Plant and Safety Engineering

- 2 units - not offered in 2005
- 36 contact hours comprising lectures, tutorials
- Eligibility: students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assessment: assignments, exam

The course covers the management of safe operation and the care and maintenance of process-plant equipment in an integrated operational context. The studies will include the interpretation of industrial standards and legal requirements, in occupational health and safety, in environmental matters and in hazard and operability studies. Also covered are the techniques and methods for the quantitative assessment of plant reliability and availability and their effects on plant throughput.

CHEM ENG 4023
Industrial Rheology

- 2 units - not offered in 2005
- 36 hours lectures, tutorials
- Eligibility: students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assessment: assignments, exam

Characterisation of fluid flow behaviour with particular emphasis on industrial suspensions, polymers and composites. Applications include the design and optimisation of systems for handling, processing and transporting non-Newtonian fluids.

CHEM ENG 4024
Environmental Engineering

- 2 units - semester 1
- 36 hours lectures, tutorials
- Eligibility: students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assessment: assignments, exam

The study of air and water pollution; pollutant dispersion; control equipment; primary, secondary and tertiary waste water treatment; landfill and hazardous wastes.

CHEM ENG 4025
Chemical Engineering Projects IV

- 2 units - semester 1
- Eligibility: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Corequisite: CHEM ENG 4010 Advanced Separation Techniques and Thermal Processes
- Assessment: project reports

Part A - 72 hours of practical work: candidates must undertake a series of projects based on lectures. Emphasis will be placed on teamwork and project management. Originality and quality of report writing and presentations are taken into account. Part B - lectures/tutorials/practical work and seminars equivalent to 120 hours: candidates are required to undertake a mixture of research project work and specialist lectures and tutorials, submit a written report (on a topic specified by the department) and present a short seminar on their project results at the end of semester 2.

CHEM ENG 4026
Chemical Engineering Research Project (H)

- 2 units - semester 2
- 120 hours investigations & seminars
- Eligibility: students in specified programs only, please check Academic Rules of the program in which you are enrolling.
- Assessment: project reports, seminar assessment

Candidates are required to complete satisfactorily an open-ended project and submit a written report on a topic supplied by the School; present a seminar/poster at the end of the semester summarising results.

CHEM ENG 4027
Chemical Engineering Research Project (N)

- 2 units - semester 2
- 120 hours investigations & seminars
- Eligibility: students in specified programs only, please check Academic Rules of the program in which you are enrolling.
- Assessment: project reports, seminar assessment

Candidates are required to complete satisfactorily an open-ended project and submit a written report on a topic supplied by the School, and present a seminar/poster at the end of the semester summarising results.

CHEM ENG 4028

Advanced Environmental Design & Cleaner Production

- 2 units - not offered in 2005
- 36 hours lectures, tutorials
- Eligibility: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assumed knowledge: CHEM ENG 3014: Process Design & Plant Engineering
- Assessment: assignments, exam

Advanced environmental design topics such as environmental law, environmental auditing, environmental impact statements, waste minimisation, solid waste management; hazardous waste treatment & disposal; water network design & optimisation techniques; advanced oxidation processes; desalination; ultraviolet disinfection; biological nutrient removal, wastewater reclamation & reuse; and energy integration.

CHEM ENG 4029

Process Design Project (Environmental)

- 6 units - not offered in 2005
- 184 hours lectures, tutorials, practical work
- Eligibility: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Corequisite: CHEM ENG 4010 Advanced Separation Techniques & Thermal Processes
- Assumed knowledge: CHEM ENG 3014 Process Design and Plant Engineering
- Assessment: assignments, exam

Topics comprise sources and estimation of data, costing and economic analysis of alternative proposals, the application of Process Engineering and Operations Research techniques to the selection, sizing, design and optimisation of equipment and processes (including utilities), project scheduling and control, and plant operation and safety considerations. Project: the project involves the economic comparison of alternative processes for the manufacture of a nominated product in the environmental area, the study of a selected process, calculation of material and energy balances, preparation of flow sheets, design of selected plant items, an assessment of factors affecting plant safety and environmental impact, estimation of plant cost and process economics, preparation of a design report and drawing of plant lay-out.

CHEM ENG 4030

Product Engineering & Development

- 2 units - not offered in 2005
- 36 hours lectures, tutorials
- Eligibility: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assessment: assignments, exam

In a products-centered chemical industry, the product is not clearly known ahead of time, but it comes as a result of an intricate process which involves, (a) identification of market trends, (b) translation of these trends to product specifications, (c) design of products meeting these specifications, and (d) design of a manufacturing system that will produce the desired product. This process is not sequential but iterative in nature, and it gives rise to a formidable process, which requires the cooperation and interaction of market analysts, and a variety of scientists (chemists, physicists, biologists), and engineers (chemical, materials, mechanical, electrical).

CHEM ENG 4031

Process Design Project (Food, Wine & Biomolecular)

- 6 units - not offered in 2005
- 184 hours lectures, tutorials, practical work
- Eligibility: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Corequisite: CHEM ENG 4010 Advanced Separation Techniques & Thermal Processes, CHEM ENG 4024 Environmental Engineering
- Assumed knowledge: CHEM ENG 3014 Process Design and Plant Engineering
- Assessment: assignments, exam

Topics comprise sources and estimation of data, costing and economic analysis of alternative proposals, the application of Process Engineering and Operations Research techniques to the selection, sizing, design and optimisation of equipment and processes (including utilities), project scheduling and control, and plant operation and safety considerations. Project: the project involves the economic comparison of alternative processes for the manufacture of a nominated chemical product, the study of a selected process, calculation of material and energy balances, preparation of flow sheets, design of selected plant items, an assessment of factors affecting plant safety, estimation of plant cost and process economics, preparation of a design report and drawing of plant lay-out.

Engineering - Civil

Level I

C&ENVENG 1000
Engineering Planning and Design

- 2 units - semester 1 & 2
- 36 contact hours of lectures, tutorials, project work, interactive computer assessed exercises throughout semester
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assumed Knowledge: SACE Stage 2 Mathematical Studies and Specialist Mathematics, Physics
- Assessment: project 40%, exam 50%, coursework 10%

Introduction to engineering: engineering planning and design methodology: basic systems concepts; creative aspects of design; economic, environmental and social evaluation of engineering projects; decision theory; scheduling: engineering ethics; case studies.

C&ENVENG 1001
Statics

- 2 units - summer semester, semester 1
- 34 contact hours comprising lectures and tutorials
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assumed Knowledge: Physics, Mathematical Studies, Specialist Mathematics
- Assessment: written exam, performance in tutorial work - further details will be available at the beginning of the semester

Basic concepts. Concepts of a force and equilibrium at a point. Moments and rigid body statics. Friction forces. Distributed forces. Geometry including areas, volumes and centroids. Application to determinate Structures. Pin jointed trusses, beams, shear force, bending moments. Cables, Hydrostatics.

C&ENVENG 1002
Civil and Environmental Engineering I

- 2 units - semester 2
- 36 contact hours comprising lectures, tutorials and designs
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assumed Knowledge: material covered in C&ENVENG 1001 Statics and C&ENVENG 1000 Engineering Planning and Design
- Assessment: may include assignments and exam - further details available at beginning of semester

This course provides an introduction to civil and environmental engineering design covering the sub-discipline areas of civil and environmental engineering: that is, environmental, hydraulic, hydrology, geotechnical and structural engineering. The course will also cover the basics of interpreting and producing civil engineering drawings. Students will work in small groups to produce designs, utilising basic theory and simple design procedures covered during the lectures.

C&ENVENG 1003
Engineering Modelling & Analysis 1

- 2 units - semester 2
- 36 contact hours comprising lectures, tutorials, interactive computer assessed exercises throughout the semester
- Assumed Knowledge: Year 12 Mathematics
- Assessment: theory 40%, practical 40%, practicals & online tutorials 20%

The FORTRAN programming language, Advanced EXCEL spreadsheet operations. The application of MATLAB to civil and environmental engineering. Computer solution techniques in civil and environmental engineering. An introduction to finite difference methods, advanced regression analysis, root finding techniques applied to engineering design, time series analysis.

Level II

C&ENVENG 2001
Stress Analysis (C)

- 2 units - semester 2
- 32 contact hours comprising lectures, tutorials & practical work
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assessment: exam, practical work, quizzes

Topics relevant to chemical or petroleum engineering taken from: Mechanical properties of materials, stresses and strains, normal and shear, stress-strain relationships, temperature stresses, elastic theory. Beams; distribution of stress due to bending, moment-curvature relationships. Beams; shear stresses. Beams; composite bending stresses. Beams; deflections of simply supported and encastre beams by integration. Combined stresses, failure theories, stress concentration. Columns: buckling and stability. Experimental stress analysis to illustrate the above.

C&ENVENG 2006
Geotechnical Engineering II

- 2 units - semester 2
- 32 contact hours - lectures, tutorials & practicals, directed study
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling

- Assumed Knowledge: C&ENVENG 1001 Statics, MATHS 1011/1012 Mathematics IA/IB
- Assessment: exams 70%, exercises 30%

Introduction to the fundamentals of soil and rock mechanics. The overall objective is to provide an awareness of the types of problems encountered in this field and to cover a number of areas that are fundamental to more advanced study. Topics included are: the origin and composition of soils: processes that form soils; mineralogy; crystallography. The state of a soil: phase relationships and measurement; soil classification; in situ vertical total and effective stresses; the behaviour of soils: Strength - Shear strength of sands and clays, Mohr-Coulomb failure criterion, measurement; Compressibility - Introduction to settlement and consolidation; Permeability - Water flow and measurement; lateral earth pressure: Rankine states; basic retaining wall design calculations; expansive soils: Shrink/swell phenomena; soil suction; measurement; heave calculation; basics of residential footing design, cracking and articulation; soil improvement: compaction - concepts, measurement and field techniques; other techniques - briefly.

C&ENVENG 2014
Engineering Modelling and Analysis II

- 2 units - semester 2
- 32 contact hours of lectures, tutorials & practical work
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assumed Knowledge: C&ENVENG 1001 Statics, MATHS 1011/1012 Mathematics IA/IB
- Assessment: classwork 20%, final exam 80%, successful completion of computer practical sessions

Introduction to numerical methods in engineering: approximations and errors; sorting and searching arrays; linear algebraic equations; roots of equations; curve fitting; numerical differentiation and integration; ordinary differential equations; solution of a broad range of civil engineering numerical problems using one of the programming languages.

C&ENVENG 2015
Construction and Surveying

- 2 units - semester 2
- 32 contact hours of lectures, tutorials, practical work, site visits
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assessment: exam, assignments

Topics to be chosen from: the construction industry: its structure, promoters, consultants, contractors, contract systems, contract documents, tendering. Basic construction processes and equipment employed in excavation, open cut, trenching and tunnelling foundations, concreting and steel fabrication and erection, selection of materials. Major fields of civil engineering and building works: bridges, roads, railways, airports, harbour works, water supply works, buildings and special structures. Construction planning and organisations: application of programming techniques including: bar charts, critical path method, resource scheduling, site organisation, site personnel communication, cost control, responsibilities. Elements of surveying, including linear measurement, levelling and theodolite.

C&ENVENG 2025
Strength of Materials IIA

- 3 units - semester 1
- 48 hours comprising lectures, tutorials and practical work
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assumed Knowledge: Pass in C&ENVENG 1001 Statics (not Conceded Pass) and MATHS 1011/1012 Mathematics IA/IB
- Assessment: exam, assignments

Topics to be chosen from: elastic, elastic-plastic; plane stress and strain; constitutive relationships, principal stress and strain; failure criteria; stresses in thick cylinders; bending and shearing stresses in beams, deflections of beams; asymmetric bending; Euler buckling; short and long columns; torsion of solid and hollow circular sections; elastic axis; introduction to statical indeterminacy and simple redundant structures; work and strain energy concepts.

C&ENVENG 2026
Environmental Engineering II

- 2 units - semester 1
- 32 hours comprising lectures, tutorials and project work
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assessment: may include assignments and/or exam - further details will be available at the beginning of semester

The course serves as an introduction to the field of environmental engineering. It covers fundamental principles such as environmental systems, environmental decision making and sustainable development, as well as topics selected from the following: Air quality - causes and types of air pollution, impacts of air pollution and air control/ Water quality - water quality parameters, water quality control / River health - river regulation, ecological barriers, environmental flows, stream bank erosion, blue-green algal blooms, salinity/ noise pollution.

C&ENVENG 2032
Structural Design IIA

- 2 units - semester 1
- 32 hours of lectures, tutorials, design, quizzes & practical work
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assumed Knowledge: C&ENVENG 1001 Statics and C&ENVENG 2025 Strength of Materials IIA or C&ENVENG 2036 Strength of Materials IIE
- Assessment: may include 2 major projects and 3 quizzes - further details will be available at the beginning of semester

Iterative nature of the design procedure developed through a truss design, construct and test project; limit states; gravity loads; axially loaded members; fundamental principles that govern the behaviour of reinforced concrete structures.

C&ENVENG 2033
Water Engineering II S1

- 2 units - semester 1
- 32 hours of lectures, tutorials, practical work, design, directed study
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assumed Knowledge: C&ENVENG 1001 Statics, MATHS 1011/ 1012 Mathematics IA/IB or MATHS 1000A/B Mathematics 1M
- Assessment: exam 75%, assignment 5%, laboratories 7.5%, design 12.5%

An introduction to hydraulic engineering. Description and properties of fluids: hydrostatics; laws of inviscid flow; continuity, energy and momentum equations; dimensional analysis and model theory; steady uniform and non-uniform flows in closed conduits; flow of real fluids; Moody diagram; flow measurement in pipes and open channels; steady uniform flow in open channels, hydraulic jumps.

C&ENVENG 2034
Structural Design IIB

- 2 units - semester 2
- 32 hours of lectures, tutorials, design, quizzes & practical work
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assumed Knowledge: Pass (not Conceded Pass) in C&ENVENG 1001 Statics, MATHS 1011/1012 Mathematics IA/IB (Pass Div I)
- Assessment: may include 2 major projects, 3 quizzes - further details will be available at the beginning of semester

Iterative nature of the design procedure developed through a preliminary design of a reinforced concrete frame; limit states; load paths; wind loads; slender columns; fundamental principles that govern the behaviour of steel and composite structures.

C&ENVENG 2035
Water Engineering II S2

- 2 units - semester 2
- 32 hours comprising lectures, tutorials and project work
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assumed Knowledge: MATHS 1011/1012 Mathematics IA/IB or MATHS 1000A/B Mathematics IM
- Assessment: may include assignments and/or exam - further details will be available at the beginning of semester

The course serves as an introduction to the field of engineering hydrology. It covers fundamentals such as the hydrological cycle, catchments, losses, hydrographs and hyetographs, as well as topics such as: flood frequency analysis, determination of design rainfall intensity and hyetographs, peak flow estimation, design hydrograph estimation (time-area method, unit hydrograph method, runoff-routing method), introduction to yield hydrology.

C&ENVENG 2036
Strength of Materials IIE

- 2 units - semester 1
- 32 contact hours comprising lectures, tutorials & practical work
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assumed Knowledge: Pass in C&ENVENG 1001 Statics (not Conceded Pass), MATHS 1011/1012 Mathematics IA/IB
- Assessment: exam, assignments

Topics to be chosen from: elastic, elastic-plastic; plane stress and strain; constitutive relationships, principal stress and strain; failure criteria; stresses in thick cylinders; bending and shearing stresses in beams, deflections of beams; asymmetric bending; Euler buckling; short and long columns; torsion of solid and hollow circular sections; elastic axis; introduction to statical indeterminacy and simple redundant structures; work and strain energy concepts.

Level III

C&ENVENG 3000
Engineering Communication ESL (C)

- 2 units - semester 1 & 2
- 24 hours lectures and workshops
- Eligibility: compulsory for International students from language backgrounds other than English who presented an English language score (IELTS or TOEFL) for admission, or who entered via a Foundation Studies Program; students resident in Australia whose admission was based on Year 12 matriculation studies in a language other than English; students resident in Australia who were eligible to take an ESL unit in Year 11 or 12

- Corequisite: students must be enrolled in an Engineering program
- Restriction: not to be counted towards any degree together with C&ENVENG 3066 Engineering Communication & Language (ECL) or PURE MTH 3016 Communication Skills (ESL) or MATHS 3015 Communication Skills.
- Assessment: written assignments, formal oral presentations, discussion groups, attendance, participation & language work

The course provides language development in English as a second language for the purposes of oral and written communication in the context of the study of Engineering. It introduces linguistic principles as tools to assist communication in English as a second language and in cross-cultural settings. Class work is designed to develop the capacity of students for communication (in speaking, listening, writing and reading) and critical thinking relevant to their current studies and intended careers in the fields of engineering and computing. Language development tasks are project-based. Tasks and assignments are focussed on academic writing, researching and preparing reports, reading, informal academic discussion and formal oral presentation. Preparation of an engineering report.

C&ENVENG 3001
Structural Mechanics IIIA

- 3 units - semester 1
- 48 total contact hours comprising lectures and tutorials
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assumed Knowledge: Pass (not Conceded Pass) in C&ENVENG 2025 Strength of Materials IIA
- Assessment: coursework, exam

This course is intended to provide students with a thorough understanding of the theory and application of structural analysis as it applies to trusses, beams and frames. Emphasis is placed on developing the student's ability to both model and analyse statically determinate and indeterminate structures and to provide realistic applications encountered in professional practice. Topics to be chosen from: Influence lines; Approximate methods of analysis; Calculation of deflections in statically determinate structures by the moment-area theorems, the conjugate beam method, the principle of virtual work and Castigliano's theorem; Force method of analysis for indeterminate structures; Displacement methods of analysis for indeterminate structures including the slope-deflection method, method of moment distribution, and the stiffness method; an introduction to finite element modelling; and plastic analysis.

C&ENVENG 3003
Environmental Engineering III

- 2 units - semester 1
- 32 total contact hours comprising lectures and tutorials
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assumed Knowledge: C&ENVENG 2033 Water Engineering II S1 & C&ENVENG 2035 Water Engineering II S2
- Assessment: exams, assignments

Water treatment processes; environmental geotechnics, groundwater contamination.

C&ENVENG 3005
Structural Design III (Concrete)

- 3 units - semester 2
- 48 contact hours comprising lectures, tutorials and project work
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assumed Knowledge: C&ENVENG 2032 Structural Design IIA, C&ENVENG 2034 Structural Design IIB, C&ENVENG 2025 Strength of Materials IIA and C&ENVENG 3001 Structural Mechanics IIIA
- Assessment: may include assignments and/or exam - further details available at beginning of semester

Detailed design and retrofitting and rehabilitation procedures for multi-storey reinforced concrete structures including beams, slab systems and columns. Students will undertake substantial design projects to apply lecture material.

C&ENVENG 3007
Structural Design III (Steel)

- 3 units - semester 1
- 48 contact hours comprising lectures, tutorials, and project work
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assumed Knowledge: C&ENVENG 2032 Structural Design IIA, C&ENVENG 2034 Structural Design IIB, C&ENVENG 2025 Strength of Materials IIA and C&ENVENG 3001 Structural Mechanics IIIA
- Assessment: may include assignments and/or exam - further details available at beginning of semester

Detailed design procedures for multi-storey steel and composite structures including composite slabs, steel beams, composite beams and steel columns. Students will undertake substantial design projects to apply lecture material.

C&ENVENG 3008
Engineering Modelling and Analysis III

- 2 units - semester 2
- 32 hours comprising lectures, tutorials & computer practicals
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assumed Knowledge: C&ENVENG 2014 Engineering Modelling and Analysis II, and APP MTH 2010 Differential Equations and Statistical Methods (Civil)
- Assessment: theory 45%, practicals 45%, practicals & tutorials 10%

Probabilistic analysis; revision of basic probability concepts; jointly distributed random variables; common distributions including: normal, log-normal, gamma, extreme value distributions; transformations of data; empirical determination of distributions; parameter estimation; regression and correlation analysis; first order, second moment methods and reliability; Monte Carlo simulation; auto-correlation, cross-correlation, multiple regression; Markov processes; random number generation; Civil Engineering examples, computer session problems. Numerical methods; eigensystems; Fourier transform spectral methods; integration of coupled sets of ordinary differential equations; systems of non-linear equations; finite difference methods. Computing; advanced programming concepts, spreadsheet macros.

C&ENVENG 3009
Environmental Engineering and Design III

- 3 units - semester 1
- 48 hours of lectures, tutorials, laboratory work & design
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assumed Knowledge: C&ENVENG 2033 Water Engineering II S1, C&ENVENG 2035 Water Engineering II S2
- Assessment: exam, assignments

Water treatment processes, environmental geotechnics, groundwater contamination. In addition students will carry out an environmental design.

C&ENVENG 3011
Engineering Management and Planning

- 2 units - semester 2
- 32 hours comprising lectures & tutorials, directed study
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assessment: may include assignments and/or exam - further details available at beginning of semester

Time management and other self-improvement skills; management in organisations; communication skills; basic economic concepts; use of mathematical models and optimisation in the planning process; decision analysis; applications to civil engineering practice.

C&ENVENG 3012
Geotechnical Engineering Design III

- 3 units - semester 2
- 48 hours of lectures, tutorials, practical work, design, directed study
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assumed Knowledge: C&ENVENG 2006 Geotechnical Engineering II
- Assessment: exams 50%, coursework 50%

Analysis and design of foundations - changes in stresses, settlement, bearing capacity; analysis of seepage problems; site investigations, in situ testing; laboratory testing; slope stability; pavement design.

C&ENVENG 3013
Water Engineering & Design IIIA

- 2 units - semester 1
- 32 hours of lectures, design work, practical work, project work, directed study
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assumed Knowledge: C&ENVENG 2033 Water Engineering II S1, APP MTH 2010 Differential Equations & Statistical Methods (Civil)
- Assessment: may include exams, laboratory reports, design work, quizzes, projects and assignments - further details available at beginning of semester

Uniform and non-uniform flow in open channels, super and subcritical flows; hydraulic structures and dissipator design; flow measurement techniques; flood routing; flow in erodible channels, unsteady flow in open channels; rapidly varied flow in open channels; level pool routing; environmental factors affecting river basins.

C&ENVENG 3014
Water Engineering & Design IIIB

- 2 units - semester 2
- 32 hours of lectures, design work, practical work, site visit, directed study
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assumed Knowledge: C&ENVENG 2033 Water Engineering II S1, APP MTH 2010 Differential Equations and Statistical Methods (Civil)
- Assessment: exam 75%, assignments/laboratories/design 25%

Fluid mechanics and hydraulic engineering design. Elements of pipeline and network design; pipes in series; pipes in parallel;

unsteady flow and water hammer in closed conduits; hydraulic machine basics and selection including pumps and turbines; water distribution system computer simulation modelling, EPANET.

C&ENVENG 3015
Analysis and Design of Structures (International)

- 2 units - semester 1
- 32 hours lectures, tutorials, practical work
- Eligibility: for international BE(Civil) students who have not studied Levels I & II at the University of Adelaide
- Assumed Knowledge: Diploma or Certificate in Civil Engineering (or related discipline) recognised by the University of Adelaide
- Assessment: Truss project, RC beam practical, multi-storey project

This course is intended to provide students with a deeper understanding of the analysis and design of structures. Emphasis is placed on developing the student's ability to solve problems, write reports and give oral presentations.

Topics covered include: the development of codes, the analysis, optimisation, construction and testing of a truss, the behaviour of RC beams, and the analysis of multi-sotrey buildings including load combinations and paths.

C&ENVENG 3066
Engineering Communication and Language (ECL)

- 3 units - semester 1 or 2
- 36 hours lectures & workshops
- Eligibility: for International students from language backgrounds other than English who presented an English language score (IELTS or TOEFL) for admission, or who entered via a Foundation Studies Program; students resident in Australia whose admission was based on Year 12 matriculation studies in a language other than English; students resident in Australia who were eligible to take an ESL unit in Year 11 or 12.
- Corequisite: Students must be enrolled in an Engineering program
- Restriction: not to be counted towards any degree together with C&ENVENG 3000 Engineering Communication (ESL) (C) or PURE MTH 3016 Communication Skills (ESL) or MATHS 3015 Communication Skills
- Assessment: written assignments, formal oral presentations, discussion groups, attendance, participation, regular language work, project

The course provides language development in English as a second language for the purposes of oral and written communication in the context of the study of Engineering. It introduces linguistic principles as tools to assist communication in English as a second language and in cross-cultural settings. Class work is designed to develop the capacity of students for communication (in speaking, listening, writing and reading) and critical thinking relevant to their current studies and intended careers in the fields of engineering and computing. Language development tasks are project-based. Tasks and assignments are focussed on academic writing, researching and preparing reports, reading, informal academic discussion and formal oral presentation.

C&ENVENG 3067
Environmental Science and Policy

- 2 units - semester 1
- 38 hours lectures, tutorials, practical work
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assumed Knowledge: CHEM 1100 Chemistry 1A
- Assessment: Part A - 30 min. written exam on lecture material 40%, written reports of practical work 30%, essay 30%; Part B may include written assignments & exam - further details available at beginning of semester

Part A - This course introduces fundamental aspects of bacterial structure, physiology and ecology. Topics covered include: characteristics and anatomy of bacterial cells; nutrition and design of growth media; fermentations; factors affecting growth of populations; sterilisation and disinfection; study of the interaction of bacteria with surfaces, and water quality and microbiology.
Part B - Introduction to the principles of microeconomics.

Level IV

C&ENVENG 4003A/B
Civil Engineering Research Project N

- 6 units - full year
- 120 hours directed study
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- All Level I, II & III courses to be passed before entering Level IV except by permission of Head, Civil & Environmental Engineering
- Assessment: evaluation of research activity, research report; conference paper presentation, short talk, seminar paper; poster

Students work in groups on a research project under the supervision of an academic staff member. They present a short talk, a research seminar and write both a conference paper and a comprehensive research report.

C&ENVENG 4005A/B
Environmental Research Project N

- 6 units - full year
- 120 hours directed study
- Eligibility: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling

- All Level I, II & III courses to be passed before entering Level IV except by permission of Head, Civil & Environmental Engineering
- Assessment: evaluation of research activity, research report, conference paper presentation, short talk,seminar paper; poster

Students work in groups on a research project under the supervision of an academic staff member. They present a short talk, research seminar and write both a conference paper and a comprehensive research report.

C&ENVENG 4034
Civil Engineering Management IV N

- 3 units - semester 1
- 24 contact hours comprising lectures, tutorials and project work
- Eligibility: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling
- All Level I, II & III courses to be passed before entering Level IV except by permission of Head, Civil & Environmental Engineering
- Assessment: may include assignments and/or exam - further details will be available at the beginning of the semester

This course includes group decision-making; the development of the individual in the workplace; the importance of communication and interpersonal skills in an organisation. Students gain an understanding of work preferences and personal interactions through self-analysis. Practical application of these skills through the development of a project concept design and project proposals is also undertaken.

C&ENVENG 4037
Introduction to Environmental Law N

- 3 units - semester 2
- 24 total contact hours comprising lectures and tutorials
- Eligibility: students in specified programs only, please check Academic Rules of the program in which you are enrolling
- All Level I, II & III courses to be passed before entering Level IV except by permission of Head, Civil & Environmental Engineering
- Assessment: may include assignments and/or exam - further details available at beginning of semester

The course examines regulatory mechanisms that address environmental problems and focuses particularly upon regulation of development. Included are: a general introduction to the law and the legal system; the nature of environmental problems in Australia; constitutional responsibilities and powers with respect to environmental planning and protection; land-use planning and protection systems; environmental impact assessment; regulation of pollution and waste disposal; and environmental litigation.

C&ENVENG 4066
Design of Composite Structures

- 3 units - semester 1 or 2
- 24 contact hours comprising lectures, tutorials, and project work
- Eligibility: students in specified programs only, please check Academic Rules of the program in which you are enrolling
- All Level I, II & III courses to be passed before entering Level IV except by permission of Head, Civil & Environmental Engineering
- Assumed Knowledge: undergraduate structural design principles.
- Assessment: two design reports

Two modules are chosen from the following three options. Module1: retrofitting and rehabilitation of composite steel and concrete building structures. Module 2: fatigue assessment and retrofitting of composite and steel vehicular bridge beams. Module 3: retrofitting and rehabilitation of RC structures using composite externally bonded steel and fibre reinforced polymer plates.

C&ENVENG 4068
Computer Methods of Structural Analysis and Design

- 3 units - semester 1 or 2
- 24 hours of lectures, tutorials, practicals; directed study
- Eligibility: students in specified programs only, please check Academic Rules of the program in which you are enrolling
- All Level I, II & III courses to be passed before entering Level IV except by permission of Head, Civil & Environmental Engineering
- Assessment: may include assignments and/or exam - further details available at beginning of semester

The objective of this course is to make students aware of the mathematical basis of structural analysis software programs and develop a competence in the use of such programs. Topics include basic theory and formulation of finite element analysis; two and three-dimensional elements; linear analysis of plane and space frameworks; an introduction to non-linear structural analysis. Computer modelling of real structures and practical aspects of computer analysis will be illustrated with a number of examples. Students will use commercial software to solve simple problems.

C&ENVENG 4069
Design of Concrete Structures N

- 3 units - semester 1 or 2
- 24 hours comprising lectures, tutorials; directed study
- Eligibility: students in specified programs only, please check Academic Rules of the program in which you are enrolling
- All Level I, II & III courses to be passed before entering Level IV except by permission of Head, Civil & Environmental Engineering
- Assessment: tutorials, design and exam

This course is intended to provide students with a deeper fundamental understanding of the behaviour of concrete structures, particularly prestressed concrete. Emphasis is also placed on enhancing the student's ability to independently solve problems. Topics covered will be taken from the following: axially loaded and flexural members; shear behaviour of beams; deflections of prestressed concrete members; statically indeterminate structures; and design of disturbed regions using strut and tie modelling.

C&ENVENG 4070
Earthquake Engineering and Design

- 3 units - semester 1 or 2
- 24 hours lectures, tutorials; directed study
- Eligibility: students in specified programs only, please check Academic Rules of the program in which you are enrolling
- All Level I, II & III courses to be passed before entering Level IV except by permission of Head, Civil & Environmental Engineering
- Assessment: coursework 40%, final exam 60%

The course will cover the basic concepts of dynamic analysis of structures and the design of structures to resist earthquake loads. An introduction to the design of masonry structures will also be given. Simple examples will be used to illustrate the concepts. Practical aspects of computer analysis will be emphasised throughout the course with students using 'state-of-the-art' commercial software to solve tutorial problems. Special reference will also be made to the Australian Earthquake Code; its use, background and limitations.

C&ENVENG 4071
Special Topics in Structural Engineering IV N

- 3 units - semester 1 or 2
- 24 hours comprising lectures, tutorials; directed study
- Eligibility: students in specified programs only, please check Academic Rules of the program in which you are enrolling
- All Level I, II & III courses to be passed before entering Level IV except by permission of Head, Civil & Environmental Engineering
- Assessment: may include assignments and/or exam - further details available at beginning of semester

Advanced topics in structural engineering.

C&ENVENG 4072
Advanced Engineering Hydrology and Design

- 3 units - not offered in 2005
- 24 hours comprising lectures, tutorials, project work
- Eligibility: students in specified programs only, please check Academic Rules of the program in which you are enrolling
- All Level I, II & III courses to be passed before entering Level IV except by permission of Head, Civil & Environmental Engineering
- Assessment: exam, tutorial exercises

The main emphasis will be placed on the rainfall runoff process and how processes are modelled for use in flood estimation and in low flow hydrology. Aspects of collection and analysis of both rainfall and streamflow data that impinge on engineering decisions resulting from the collection of the data will be discussed.

C&ENVENG 4073
Advanced Water Distribution Systems and Design

- 3 units - semester 1 or 2
- 24 hours comprising lectures, tutorials; directed study
- Eligibility: students in specified programs only, please check Academic Rules of the program in which you are enrolling
- All Level I, II & III courses to be passed before entering Level IV except by permission of Head, Civil & Environmental Engineering
- Assessment: exam 60%, tutorial, project work 40%

Water distribution systems analysis. Steady state analysis of pipe networks. Alternative formulations of equations for pipe networks. Computer solution techniques. Water supplies for small communities. Optimisation of pipe networks using genetic algorithms. Water hammer analysis. Pump transients. Water hammer control methods.

C&ENVENG 4075
Advanced Water Resources Management and Design

- 3 units - semester 1 or 2
- 24 hours comprising lectures, tutorials, and project work
- Eligibility: students in specified programs only, please check Academic Rules of the program in which you are enrolling
- All Level I, II & III courses to be passed before entering Level IV except by permission of Head, Civil & Environmental Engineering
- Assessment: may include assignments, presentations, projects and/or exam - further details available at beginning of semester

Topics to be selected from: demands on water resources; demand management; yield assessment of surface and groundwater sources; risk; reliability and sustainability issues; multiobjective evaluation of water resource projects; design project.

C&ENVENG 4076
Advanced Water Resources Planning and Design

- 3 units - not offered in 2005
- 24 hours lectures, tutorials; directed study
- Eligibility: students in specified programs only, please check Academic Rules of the program in which you are enrolling
- All Level I, II & III courses to be passed before entering Level IV except by permission of Head, Civil & Environmental Engineering

- Assessment: may include assignments and/or exam - further details available at beginning of semester

Topics to be selected from: economic, social and environmental issues in water resources development; use of optimisation methods in water resources planning; multipurpose river basin schemes; optimum system operation; capacity expansion models; water quality issues.

C&ENVENG 4077
Coastal Engineering and Design

- 3 units - semester 1 or 2
- 24 contact hours comprising lectures, tutorials and project work
- Eligibility: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling
- All Level I, II & III courses to be passed before entering Level IV except by permission of Head, Civil & Environmental Engineering
- Assessment: may include assignments and exam - further details available at beginning of semester

The course is based on waves and wave theories, tides, sediment transport, nearshore coastal processes, wave generation, ocean outfalls, coastal management.

C&ENVENG 4078
Special Topics in Water Engineering IV N

- 3 units - semester 1 or 2
- 24 hours comprising lectures, tutorials and directed study
- Eligibility: students in specified programs only, please check Academic Rules of the program in which you are enrolling
- All Level I, II & III courses to be passed before entering Level IV except by permission of Head, Civil & Environmental Engineering
- Assessment: theory 50%, design 35%, tutorials 15%

Advanced topics in water engineering.

C&ENVENG 4079
Advanced Foundation Engineering and Design

- 3 units - semester 1 or 2
- 24 contact hours comprising lectures, tutorials and project work
- Eligibility: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling
- All Level I, II & III courses to be passed before entering Level IV except by permission of Head, Civil & Environmental Engineering
- Assessment: exam 50%, coursework 50%

Advanced topics in the design of shallow and deep foundations, including numerical methods: effect of stiffness of strip and raft foundations on settlement control; design of pile foundations for vertical and/or lateral loading; dewatering of excavations.

C&ENVENG 4080
Geotechnical Modelling and Design

- 3 units - not offered in 2005
- 24 hours lectures and tutorials, plus directed study
- Eligibility: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling
- All Level I, II & III courses to be passed before entering Level IV except by permission of Head, Civil & Environmental Engineering
- Assessment: coursework

The course is based on case studies of actual geotechnical engineering projects. Introduction to analysis of problems in geomechanics using numerical methods; introduction to finite element method; finite element solution of problems in geomechanics using elastic theory. The design process and soil parameter evaluation.

C&ENVENG 4081
Footing Design and Soil Variability

- 3 units semester 1 or 2
- 24 contact hours comprising lectures, tutorials and project work
- Eligibility: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling
- All Level I, II & III courses to be passed before entering Level IV except by permission of Head, Civil & Environmental Engineering
- Assessment: coursework

Advanced Topics in the Design of Residential Footings on Expansive Soils: Numerical and computer- based techniques, such as the Mitchell and Walsh methods of analysis are examined, as well as issues relating to residential footing design practice and probabilistic design. At the end of this course, students will be able to design residential footings to current practice.

Probability and Statistics in Geotechnical Engineering: This topic examines general statistical applications in geotechnical engineering and the analysis of the spatial variability of soils using random field theory and geostatistics.

Introduction to Rock Slope Design: This topic gives an overview of the characteristics of rock masses; geotechnical coring and logging; face mapping; rock mass classification; stress theories and strength criteria; and planar failure mechanisms.

C&ENVENG 4082

Special Topics in Geotechnical Engineering IV N

- 3 units - semester 1 or 2
- 24 total contact hours comprising lectures and tutorials
- Eligibility: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling
- All Level I, II & III courses to be passed before entering Level IV except by permission of Head, Civil & Environmental Engineering
- Assessment: coursework

Advanced topics in Geotechnical Engineering.

C&ENVENG 4084

Special Topics in Management and Planning IV N

- 3 units - semester 1 or 2
- 24 hours comprising lectures, tutorials; directed study
- Eligibility: students in specified programs only, please check Academic Rules of the program in which you are enrolling
- All Level I, II & III courses to be passed before entering Level IV except by permission of Head, Civil & Environmental Engineering
- Assessment: may include assignments and/or exam - further details available at beginning of semester

Advanced topics in engineering management and planning.

C&ENVENG 4085

Traffic Engineering and Design

- 3 units - semester 1 or 2
- 24 hours comprising lectures and tutorials, plus directed study
- Eligibility: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling
- All Level I, II & III courses to be passed before entering Level IV except by permission of Head, Civil & Environmental Engineering
- Assessment: may include assignments and/or exam - further details available at beginning of semester

Elements of the road traffic system. Road hierarchy and functional classification. Design of urban road networks. Introduction to traffic impact analysis. Traffic control devices and systems. Traffic management principles and applications. Local area traffic management. Design of traffic systems. Traffic calming principles. Traffic flow and road capacity analysis.

C&ENVENG 4086

Environmental Auditing and Design

- 3 units - semester 1 or 2
- 24 hours comprising lectures, tutorials/technical projects
- Eligibility: students in specified programs only, please check Academic Rules of the program in which you are enrolling
- All Level I, II & III courses to be passed before entering Level IV except by permission of Head, Civil & Environmental Engineering
- Assessment: may include assignments and exam - further details available at beginning of semester

Topics to be selected from sustainability and sustainable development, greenhouse issues, environmental impact assessment. In addition students will undertake an environmental audit of a commercial/industrial facility

C&ENVENG 4087

Environmental Processes, Modelling and Design

- 3 units - semester 1 or 2
- 24 hours of lectures, assignments and design, directed study
- Eligibility: students in specified programs only, please check Academic Rules of the program in which you are enrolling
- All Level I, II & III courses to be passed before entering Level IV except by permission of Head, Civil & Environmental Engineering
- Assessment: may include assignments and exam - further details available at beginning of semester

The course addresses the major steps in the development of engineering models, with a particular emphasis on water quality. Topics to be covered include model specification (environmental processes, model complexity, model application), model calibration (gradient methods, genetic algorithms, ant colony optimisation), model validation and stochastic modelling (types of uncertainty, random variables, risk-based performance measures and reliability analysis, including Monte Carlo simulation and the first-order reliability method), artificial neural network modelling.

C&ENVENG 4088

Groundwater Resources, Contamination and Design

- 3 units - not offered in 2005
- 24 hours lectures, tutorials, design; directed study
- Eligibility: students in specified programs only, please check Academic Rules of the program in which you are enrolling
- All Level I, II & III courses to be passed before entering Level IV except by permission of Head, Civil & Environmental Engineering
- Assessment: may include written assignments and exam - further details available at beginning of semester

Groundwater exploration and well technology; aquifer testing; physical and hydrochemical processes; groundwater yield assessment; groundwater flow and solute transport; groundwater modelling and data requirements; design project.

C&ENVENG 4089

Numerical Methods in Environmental Engineering

- 3 units - not offered in 2005
- 24 hours comprising lectures, tutorials; directed study
- Eligibility: students in specified programs only, please check Academic Rules of the program in which you are enrolling
- All Level I, II & III courses to be passed before entering Level IV except by permission of Head, Civil & Environmental Engineering
- Assessment: may include assignments and/or exam - further details available at beginning of semester

Introduction to the finite element method and finite difference method of solving fluid flow problems in both groundwater and surface flows, such as groundwater flow, contaminant movement in groundwater, tidal propagation and currents in rivers and tidal situations. The basic theory and formulation will be given and the techniques illustrated with simple examples. Students will undertake a project to solve a designated problem.

C&ENVENG 4090

Special Topics in Environmental Engineering IV N

- 3 units - semester 1 or 2
- 24 hours comprising lectures and tutorials, plus directed study
- Eligibility: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling
- All Level I, II & III courses to be passed before entering Level IV except by permission of Head, Civil & Environmental Engineering
- Assessment: may include assignments and exam - further details available at beginning of semester

Advanced topics in environmental engineering.

C&ENVENG 4091

Waste Management Analysis and Design

- 3 units - semester 1 or 2
- 24 hours comprising lectures, tutorials; directed study
- Eligibility: students in specified programs only, please check Academic Rules of the program in which you are enrolling
- All Level I, II & III courses to be passed before entering Level IV except by permission of Head, Civil & Environmental Engineering
- Assessment: may include assignments and exam - further details available at beginning of semester

Generation, collection and disposal of solid waste; sanitary landfill; incineration; resource conservation and recovery; fuel recovery. Hazardous waste management; types of hazardous waste; treatment technologies; methods of disposal; design project.

C&ENVENG 4092

Wastewater Engineering and Design

- 3 units - semester 1 or 2
- 24 contact hours comprising lectures, tutorials and project work
- Eligibility: students in specified programs only, please check Academic Rules of the program in which you are enrolling
- All Level I, II & III courses to be passed before entering Level IV except by permission of Head, Civil & Environmental Engineering
- Assessment: may include written assignments and exam - further details available at beginning of semester

Characteristics of wastewater; primary, secondary and tertiary treatment methods; sludge disposal; project: design of wastewater treatment plant.

C&ENVENG 4094

Fundamental Steel Design

- 3 units - semester 1 or 2
- 24 hours comprising lectures, tutorials, directed study
- Eligibility: students in specified programs only, please check Academic Rules of the program in which you are enrolling
- All Level I, II & III courses to be passed before entering Level IV except by permission of Head, Civil & Environmental Engineering
- Assessment: project work and tutorials - further details available at beginning of semester

This course consists of two parts. The first part is on tall building structures. Emphasis will be placed on horizontal load resistance systems, rigorous analytical methods and practical methods of design, and the structural behaviour of various tall building systems under lateral loading. The second part concerns space structures in which some of latest engineering constructions in space structures will be explored and various types of space structures will be introduced in terms of their behaviour under load, materials used and analysis methods. In particular, the design, analysis and construction of double-layer grids - one of most popular forms of space structures will be addressed.

Engineering - Electrical & Electronic

Level I

ELEC ENG 1006

Electrical Engineering I

- 3 units - summer semester, semester 1
- 42 hours lectures and tutorials, up to 24 hours laboratory work
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assessment: written assignments, exam, performance in laboratory

Circuit analysis: Electrical circuit concepts: definitions, basic quantities and units. Models for simple circuit elements. Network topology and systematic methods of analysis. Steady state alternating current circuits and phasor methods. Analog electronics: Principles of electronic circuits. Models for diodes, Field Effect and Bipolar Junction Transistors. Simple amplifier circuits. Operational amplifiers. Digital electronics: Boolean variables and Boolean algebra. Combinational logic circuits and minimisation techniques. Number representation and arithmetic operations. Introduction to synchronous sequential logic. Basic laboratory techniques including the construction and testing of simple electronic circuits.

ELEC ENG 1007

Engineering Planning, Design and Communication

- 3 units - semester 2
- 24 hours lectures, 12 tutorials and 12 practicals
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling

Introduction to engineering; engineering planning and design methodology; basic systems concepts; creative aspects of design; economic, environmental and social evaluation of engineering; projects; decision theory; scheduling; engineering ethics; case studies.

The importance of effective technical communication; strategies for effective academic and professional writing and seminar presentations. Location and evaluation of appropriate sources of information. Differences in purpose, style and format.

ELEC ENG 1008

Electrical Engineering IM

- 2 units - semester 1
- 42 hours lectures and tutorials, plus interactive learning
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assessment: written assignments, exam

This course will (a) introduce basic electrical concepts, (b) demonstrate how models can be developed to represent important electrical and electronic components and systems, (c) use these models to analyse and design electrical and electronic systems, and (d) provide a grounding in the theory and practice of logic design with particular reference to computers. Students will be introduced to a range of circuit design and analysis techniques, including phasor methods for the steady state analysis of circuits with sinusoidal excitation. Simple electronic circuits and principles underlying the theory of operation of electric motors will also be introduced.

Level II

ELEC ENG 2007

Signals and Systems

- 3 units - semester 2
- 36 hours lectures and tutorials, plus interactive learning
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assumed Knowledge: ELEC ENG 1006 Electrical Engineering I
- Assessment: assignments, written exam

Classification of signals and systems: continuous and discrete, linear time-invariant (LTI) systems. Representation in terms of impulses, convolution. Causality and stability concepts. Block diagram representation. Fourier analysis of continuous-time signals and systems: representation of periodic and aperiodic signals. Properties of the Fourier transform; convolution and modulation. Frequency response of first-order and second-order systems. Bode plots. Fourier analysis of descrete-time signals and systems. Analysis and characterization of LTI systems using Laplace transform methods: system transfer function, pole zero representation, difference equation characterization, transfer function of interconnected systems.

ELEC ENG 2008

Electronics II

- 3 units - summer semester, semester 1
- 36 hours lectures and tutorials, plus interactive learning
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assumed Knowledge: ELEC ENG 1006 Electrical Engineering I
- Assessment: assignments, written exam

Linear circuits analysis: revision of circuit elements and analysis techniques. Differential equation description of circuits, response under different excitations. Laplace transform techniques and transfer function description. Analysis of mutual coupling. Electronics components: structure, characteristics and modelling of diodes, bipolar transistors and field-effect transistors. Single transistor amplifiers, differential multistage and power amplifiers. Ideal characteristics, practical limitations and applications of operational amplifiers.

ELEC ENG 2009

Engineering Electromagnetics

- 3 units - semester 2
- 36 hours lectures and tutorials, plus interactive learning
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling

- Assumed Knowledge: ELEC ENG 1006 Electrical Engineering I
- Assessment: assignments, written exam

Dielectric materials and Capacitance. Magnetic fields and forces. Faraday and Ampere Laws. Magnetic materials and hysteresis. Examples including motors, dynamos and transformers. Maxwell equations. Electromagnetic energy. Plane waves, dispersion and polarization. Reflection and refraction at an interface. Introduction to electromagnetic radiation.

ELEC ENG 2010A/B
Practical Electronic Design II

- 3 units - full year
- 78 hours lectures and practical work
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assessment: laboratory performance, reports

Electrical Safety: the nature of electric shock, the hazards associated with electrical installations, safe working practices, protective devices, earthing. Experimentation: random and systematic errors, error propagation, precision, accuracy and repeatability, standards and calibration, the design, execution and recording of experiments. Practical considerations: frequency limitations, loading and waveform effects, techniques for minimizing noise. Practical circuit design, simulation and prototyping techniques. Practical work: familiarization with laboratory facilities and instrumentation, common procedures and techniques. Experiments to augment Level 2 theoretical courses. Major system design project: Audio system.

Level III

ELEC ENG 3012
Engineering Communication ESL (E)

- 2 hour lecture/workshop per week (24 contact hours)
- Eligibility: International students from language backgrounds other than English who presented an English language score (IELTS or TOEFL) for admission, or who entered via a Foundation Studies Program; students resident in Australia whose admission was based on Year 12 matriculation studies in a language other than English; students resident in Australia who were eligible to take an ESL unit in Year 11 or 12
- Assessment: 2 written assignments 55%, oral presentations 35%, attendance 10%

The course provides language development in English as a second language for the purposes of oral and written communication in the context of the study of Engineering. It introduces linguistic principles as tools to assist communication in English as a second language and in cross-cultural settings. Class work is designed to develop the capacity of students for communication (in speaking, listening, writing and reading) relevant to their current studies and intended careers in the fields of engineering and computing. Language development tasks are project-based. Tasks and assignments are focussed on preparing research discussion papers reports, critical reading, informal discussion and formal oral presentation.

ELEC ENG 3015
Communications, Signals & Systems

- 3 units - semester 1
- 36 hours of lectures, tutorials and assignments
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assumed Knowledge: ELEC ENG 2007 Signals and Systems, ELEC ENG 2008 Electronics II, STATS 2004 Laplace Transforms, and Probability and Statistical Methods.
- Assessment: written exam, assignments

Random Signals and Systems: Review of probability, random variables, random processes, autocorrelation, power spectrum, linear time invariant systems, thermal and shot noise. Communication Systems: Radio communications, noise and distortion in communication systems, spurious signals, amplitude and frequency modulation, mixer and modulator circuits, superheterodyne receivers.

Analog Filter Design: Impedance and frequency scaling, low pass prototypes, filter design and transformations, switched capacitor filters, active filters.

ELEC ENG 3016
Control III

- 3 units - semester 1
- 36 hours of lectures and tutorials
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assumed Knowledge: ELEC ENG 2007 Signals & Systems, APP MATH 2000 Differential Equations and Fourier Series, APP MATH 2002 Vector Analysis and Complex Analysis, STATS 2004 Laplace Transforms and Probability and Statistical Methods.
- Assessment: written exam and homework exercises

Transfer functions; stability; dynamic and steady-state performance; root locus diagrams; Bode and Nyquist plots; cascade compensation using root locus and frequency response techniques; minor-loop feedback. Introduction to state-space modelling and analysis. Analysis and design of digital control systems.

ELEC ENG 3017
Digital Electronics

- 3 units - semester 1
- 36 hours of lectures, tutorials and computer laboratory exercises
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assumed Knowledge: ELEC ENG 1006 Electrical Engineering I and ELEC ENG 2008 Electronics II
- Assessment: written exam, assignments

Integrated Circuits - overview of implementation technologies and economics. Datapath design and arithmetic/logic units; adders and multipliers. State machine design - synchonous and asynchronous. Hardware description languages; introduction to modelling in VHDL. Field Programmable Gate Arrays - architecture, design flow, modelling and coding approaches, CMOS fabrication technology and CMOS Logic. Memory cells and memory design.

ELEC ENG 3018
RF Engineering III

- 3 units - semester 1
- 36 hours of lectures and laboratory/tutorial sessions
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assumed Knowledge: ELEC ENG 2008 Electronics II and ELEC ENG 2009 Engineering Electromagnetics
- Assessment: written exam and tests

Basic concepts of electromagnetic radiation, propagation and antennas. Elementary transmission line theory. Radio Frequency systems and performance constraints. Tuned circuits and matching. High frequency transistor models. Tuned and broadband amplifiers. Oscillators and mixers. Modulation and demodulation. Introduction to phase locked loops. Miscellaneous analogue circuits.

ELEC ENG 3019A/B
Practical Electrical & Electronic Design III

- 3 units - full year
- 78 hours of lectures and practical work
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Prerequisite: ELEC ENG 2010A/B Practical Electronic Design II
- Corequisite: ELEC ENG 3018 RF Engineering III, ELEC ENG 3016 Control III
- Assessment: practical exercises with informal reports, practical exercises with formal reports, laboratory and two written tests. Each assessment component must be passed separately

Practical experiments in the key areas of: Radio reception, Signal processing & Control, Communications and Energy conversion. Practical electronic design, development of Report writing skills and measurement skills.

ELEC ENG 3020
Embedded Computer Systems

- 3 units - semester 2
- 24 hours of lectures and tutorials and a problem based learning project
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assumed Knowledge: ELEC ENG 1006 Electrical Engineering I and COMP SCI 2000 Computer Systems
- Assessment: written exam,assignments and project work

Review of computer architecture; organisation of microprocessor systems; memory types; input/output. Motorola 68000 instruction set architecture and hardware interface. Address decoding and memory mapping techniques. Timing analysis. Interrupts and exceptions. Direct memory access. Microcontrollers and digital signal processors. Analog to digital and digital to analog conversion. Real time techniques. Development tools.

ELEC ENG 3021
Electric Energy Systems

- 3 units - semester 2
- 36 hours of lectures and tutorials
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assumed Knowledge: ELEC ENG 1006 Electrical Engineering I and ELEC ENG 2009 Engineering Electromagnetics.
- Assessment: written exam and assignments

Electric energy systems overview: Electric loads and energy pricing. Electric transmission and distribution networks. Conventional energy generation systems, sustainable/renewable energy sources. Energy storage. Economics, management and sustainability.

Modelling and analysis of electric energy systems: single-phase and three-phase circuits (real and reactive power, per-unit systems). Electromechanical energy conversion (construction, modelling and characteristics of induction and synchronous machines). Electric energy transmission and distribution (modelling of transmission lines, system analysis, control of voltage, power and frequency).

ELEC ENG 3022
Real Time Systems IV

- 3 units - semester 2
- 26 hours of lectures and tutorials and programming exercises
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling

- Restriction: ELEC ENG 4028 Real Time Systems
- Assumed Knowledge: ELEC ENG 1006 Electrical Engineering I, COMP SCI 2000 Computer Systems
- Assessment: assignment and written exam

Time-critical computing, real-time kernels and development systems, scheduling periodic and aperiodic task techniques, intertask communication and synchronisation, rate monotonic analysis, real-time message transmission in distributed local area networks.

ELEC ENG 3023
Electric Energy Systems M

- 2 units - semester 2
- 24 hours of lectures and tutorials
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assumed Knowledge: ELEC ENG 1005 Electrical Systems AM or ELEC ENG 1006 Electrical Engineering I.
- Assessment: written exam and assignments

Electric energy systems overview: Electric loads and energy pricing. Electric transmission and distribution networks. Conventional energy generation systems, sustainable/renewable energy sources. Energy storage. Economics, management and sustainability.

Modelling and analysis of electric energy systems: single-phase and three-phase circuits (real and reactive power, per-unit systems). Electromechanical energy conversion (construction, modelling and characteristics of induction and synchronous machines). Electric energy transmission and distribution (modelling of transmission lines, system analysis, control of voltage, power and frequency).

ELEC ENG 3024
Project Management for Electrical Engineering

- 3 units - semester 2
- 32 hours of lectures, tutorials and a group project
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assumed Knowledge: ELEC ENG 2007 Signals and Systems, ELEC ENG 2008 Electronics II
- Assessment: written examination, assignments, project work

Principles of project management as applied to engineering systems; leadership and team skills; group project work to exercise planning organisational and communication skills.

Level IV

ELEC ENG 4004
Electrical Engineering Research

- 2 units - semester 2
- 46 hours lectures, project work and library research
- Assessment: project work, seminar presentation

Literature and patent searching techniques, the nature of innovation. Cross fertilisation and collaboration. The project will consist of critique of the literature on a particular topic and a further development or additional application of that topic.

ELEC ENG 4032
Advanced Electromagnetics

- 2 units - not offered in 2005
- 24 hours of lectures, tutorials
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assumed Knowledge: ELEC ENG 4044 RF Engineering IV
- Assessment: written exam, within-semester quizzes and laboratory assignments

General electromagnetic engineering components, construction and uses. Reciprocal and non-reciprocal devices.
Advanced waveguide theory. Losses in waveguides. Reciprocity, orthogonality and normal mode expansions. Hole coupling between waveguides.

Microwave circuit theory. Review of scattering parameters. Impedance matching in microwave networks. Introduction of equivalent voltages and currents. Representations of n-ports. Reciprocal and non-reciprocal networks. Theorems on two, three and four port junctions; canonical forms for representation. Formal microwave network analysis.

Resonant cavities. Construction, uses, cavity coupling systems and equivalent circuits. Cavity perturbation theory.
Introduction to EMC and EMI concepts. Construction and performance of EMC measurement instruments. Practical exercises on measurement.

ELEC ENG 4033
Advanced Telecommunications

- 2 units - semester 2
- 24 hours of lectures and tutorials
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assumed Knowledge: ELEC ENG 4046 Telecommunications IV
- Assessment: written exam and assignments

Third generation mobile systems: W-CDMA implementation and dimensioning. Core network evolution including 2.5G solutions. Orthogonal Frequency Division Multiplexing: principles and implementation including 802.11a OFDM PHY Ad-hoc networking: principles and implementation including 802.11 IBSS and Bluetooth.

Consumer broadband distribution: principles and implementation including DSL and HFC.Satellite communications: principles and applications including link models, system parameters and multiple access (FAMA/DAMA). INTELSAT, Iridium, Globalstar.

ELEC ENG 4034
Analog Microelectronics

- 2 units - semester 2
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- 25 hours of lectures and practical work
- Assumed Knowledge: ELEC ENG 3017 Digital Electronics and ELEC ENG 3018 RF Engineering III or equivalent
- Assessment: project work, written exam, tests during semester

Introduction: Fabrication processes and design rules (revisited); transistor models (revisited from third year electronics); layout issues; ASIC design flow - especially simulators and performance estimation. Analog Microelectronics: Current sources and references; operational and transconductance amplifiers; current mode circuits; data conversion systems; switched capacitor systems; phase locked loops.

Group project using layout and simulation tools.

ELEC ENG 4035
Communications IV

- 2 units - semester 1
- 24 hours of lectures and tutorials
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assumed Knowledge: ELEC ENG 3015 Communications, Signals & Systems
- Assessment: written exam and assignments

Frequency domain analysis, analogue signal transmission and reception, random processes, effect of noise on analog communication systems.Information sources and source coding, digital transmission in additive white Gaussian noise channel and bandlimited AWGN. Channel capacity and coding, fading multipath channels and spread spectrum communications.

ELEC ENG 4036A/B
Design Project

- 6 units - full year
- 240 hours of practical work
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Prerequisite: ELEC ENG 3015 Communications, Signals and Systems, ELEC ENG 3016 Control III, ELEC ENG 3017 Digital Electronics, ELEC ENG 3018 RF Engineering III, ELEC ENG 3019A/B Practical Electrical and Electronic Design III, ELEC ENG 3020 Embedded Computer Systems
- Assessment: performance during the project work, assessment of written reports, seminar presentations

Each candidate is required to conduct investigations involving the design, development and testing of hardware and/or software. The results are presented in written report form, by seminar and, where appropriate, demonstration of the completed work.

ELEC ENG 4037
Digital Microelectronics

- 2 units semester 1
- 25 hours of lectures and project work
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assumed Knowledge: ELEC ENG 2008 Electronics II and ELEC ENG 3017 Digital Electronics or equivalent
- Assessment: project work, written exam, tests during semester

Introduction: (4 lectures) - Fabrication processes and design rules (revisited); transistor models (revisited from third year electronics); layout issues; ASIC design flow - especially simulators and performance estimation. Digital Microelectronics (13 lectures including 2 quizzes) - Static and dynamic logic families; leaf cell design; VLSI techniques; system partitioning; floor planning; noise margins; interconnect and routing; clock distribution. BiCMOS and GaAs technologies.
Project (8 hours) - Group project using layout and simulation tools.

ELEC ENG 4038
Financial Management for Engineers

- 2 units - semester 2
- 24 hours of lectures
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assessment: assignments

This course aims to provide engineers with an introduction to the fundamentals of business decision-making common to all forms of organisation. The course focuses on the requirements of project management, including the need to communicate complex

financial arguments effectively. It is designed to provide students with a basic understanding of the fundamental principles of investment and financing decisions in both small and large organisations. The formation of business strategies and related management control functions are also addressed. The course provides students with the theoretical essentials for practical implementation of the main concepts covered.

ELEC ENG 4039A/B
Honours Project

- 6 units - full year
- 240 hours of practical work
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Prerequisite: ELEC ENG 3015 Communications, Signals and Systems, ELEC ENG 3016 Control III, ELEC ENG 3017 Digital Electronics, ELEC ENG 3018 RF Engineering III, ELEC ENG 3019A/B Practical Electrical and Electronic Design III, ELEC ENG 3020 Embedded Computer Systems
- Assessment: performance during project work, written reports, seminar presentations

Each candidate is required to conduct investigations involving theoretical surveys and the design, development and testing of hardware and/or software. The results are presented in written report form, by seminar and, where appropriate, demonstration of the completed work.

ELEC ENG 4040
Management and Professional Practice for Engineers

- 2 units - semester 1
- 24 hours of lectures
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assessment: assignments

Innovation: what is innovation; why it matters; sources of innovation; new product development as well as process innovation or continuous improvement; links between strategic planning and innovation. Human resource management: nature of today's organisations, links with corporate strategy and with the capacity to innovate and major human resource management activities. Legal and ethical issues: the nature of contracts, formation of contracts and personal and legal liability; protecting intellectual property; ethics.

ELEC ENG 4041
Optical Communication Engineering

- 2 units - semester 2
- 23 hours of lectures and tutorials
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assumed Knowledge: course uses principles of transmission line propagation (ELEC ENG 4044 RF Engineering IV) and electronics (ELEC ENG 2008 Electronics II, ELEC ENG 3018 RF Engineering III) and communication (ELEC ENG 3015 Communications, Signals and Systems). The fundamental principles with which students should be familiar are reviewed in the early lectures. Concurrent or previous enrolment in ELEC ENG 4035 Communications IV recommended
- Assessment: formal exam

Review of optics and lightwave propagation. Introduction to communication systems. Optical waveguides. Integrated optic waveguide. Dispersion and distortion effects. Single-mode and multi-mode optical fibres. Attenuation characteristics. Practical configurations. Light sources. Light emitting diodes. Laser operation. Laser diodes. Coupling considerations. Optical amplifiers. Light detectors. Photoelectric effects. PIN photodiodes. Avalanche photodiodes. Receiver circuits. Modulation. Analogue modulation formats. Digital modulation formats. Subcarrier techniques and multiplexing. Harmonic distortion and intermodulation. Noise and detection. Thermal and shot noise effects. Signal-to-noise ratios for digital and analogue systems. Thermal-noise limited and Shot-noise limited systems. Receiver design. System design. Analogue and digital point-to-point link design. Fibre distribution networks. Optical storage concepts. Dense Wave Division Multiplexing (DWDM), Compact Disc, DVD and other optical storage.

ELEC ENG 4042
Power Electronics and Drive Systems

- 2 units - semester 2
- 24 hours of lectures and tutorials
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assumed Knowledge: ELEC ENG 1006 Electrical Engineering I or Electrical Systems AM, ELEC ENG 2008 Electronics II or equivalent.
- Assessment: written exam, quizzes, and semester assignments

Power electronics: characteristics of power electronic devices and classes of power converters. Power supplies (uninterrruptible, switchmode). Hard and soft-switching, resonant circuits. Losses and thermal design.

Advanced energy-efficient motor drives: review of motor theory, power electronic control principles, vector and servo drives (stepper, DC, induction, brushless PM and switched-reluctance).

Motor and drive selection and application. System design, implementation and control. Computer interfacing, network communication.

ELEC ENG 4043
Power Quality and Condition Monitoring

- 2 units - semester 1
- 24 hours of lectures and tutorials
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assumed Knowledge: ELEC ENG 2008 Electronics II
- Assessment: quizzes, semester assignments

This course will address power quality issues and condition monitoring techniques used in industrial systems. A brief overview of power systems and three-phase machines will be given, and the course will cover various issues under two major sections.

Power Quality: EMI in energy systems, types of power quality issues, regulations, standards, prevention techniques, measurements and analysis, case studies and real-time tests.

Condition Monitoring: Importance, history, types and features of faults, test methods, sensors and measurement techniques, traditional and advance diagnostic methods, case studies and real-time tests.

ELEC ENG 4044
RF Engineering IV

- 2 units - semester 1
- 24 hours of lectures and tutorials
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assumed Knowledge: ELEC ENG 3018 RF Engineering III
- Assessment: written exam, tests

Revision of transmission lines. Microstrip lines. The use of transmission lines for matching and filtering. S matrix circuit theory and amplifier design using S parameters. The design of power amplifiers. Revision of waves (including polarisation and dispersion). Introduction to propagation (reflection, refraction and diffraction). Elementary waveguide theory. Radiation fields. Wire antennas (including loops, dipoles and monopoles). The concepts of effective length, directivity and gain. The Friis equation. Influence of environment upon antenna performance. Broadband antennas. Introduction to array antennas (including the log periodic dipole array). Aperture antennas (including patch designs).

ELEC ENG 4045
Signal Processing IV

- 2 units - semester 2
- 24 hours of lectures and tutorials
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assumed Knowledge: ELEC ENG 2007 Signals and Systems
- Assessment: written exam, in-term assessment

Discrete time signals, decimation, interpolation and analogue signal reconstruction. Discrete and fast Fourier transforms, windowing. stochastic processes, covariances and power spectrum. Principles of estimation and spectral estimation, averaging and smoothing and quantisation noise.Digital filtering principles, causality and stability, frequency domain filtering and convolutions. FIR digital filters, linear phase and group delay, frequency domain design of digital filters. IIR filters, bilinear transform from s to z plane and mapping analog filters to digital domain. Optimum Weiner filters, LMS adaptive filters and applications. Wavelet transforms, sub-band filters, frequency, scale and localization and multiresolution.

ELEC ENG 4046
Telecommunications IV

- 2 units - semester 1
- 24 hours of lectures and tutorials
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assumed Knowledge: ELEC ENG 3015 Communications, Signals and Systems, Circuit-switched networks: performance, Signalling System #7, ISDN
- Assessment: written exam and assignments

Cellular networks: TDMA/FDMA cellular concepts, GSM mobility and network management, CDMA cellular concepts and IS-95 implementation. Network dimensioning. Packet-switched networks: queuing theory and packet-switched network theory, performance measures, TCP/IP operation and performance. Internet protocols, architecture and dimensioning.
Wireless LAN: 802.11 implementation and 802.11b DSSS PHY
Broadband networks: SDH, ATM, broadband network traffic and resource management.

ELEC ENG 4047
Topics in Electrical and Electronic Engineering

- 2 units - semester 2
- 24 hours of lectures and tutorials
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assumed Knowledge: as prescribed by the Head of Electrical and Electronic Engineering

- Assessment: may include tests, written exam and assignment - full details provided at the start of semester

Special topics in Electrical and Electronic Engineering, as determined by the Head of the School. This course may be offered from time to time and will be taught by visiting academics.

Engineering - Mechanical

Level I

MECH ENG 1000

Dynamics

- 2 units - semester 2 & summer school
- 36 hours lectures and tutorials
- Eligibility: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assumed Knowledge: SACE Stage 2 Mathematical Studies, Specialists Maths and Physics
- Assessment: mid-semester test, assignments, exam

Kinematics of particles and rigid bodies; rectilinear, and curvilinear motion; motion relative to moving axis. Kinetics of particles and rigid bodies: application of Newton's Laws, and the principles of work, energy, power, and momentum in mechanical systems. Conservation of energy and momentum.

MECH ENG 1001

Design Graphics

- 2 units - semester 2
- 38 hours lectures and practical classes in the design suite
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assessment: continuous assessment and final exam - further details at beginning of semester

Design methods and the influence of design and computers in manufacturing; the language of drawing including sketching; instrument drawing; orthogonal and axonometric projection; visualisation; dimensioning; tolerancing; manufacturing methods and an introduction to CAD.

MECH ENG 1005

Engineering Planning Design & Communication M

- 3 units - semester 1
- 44 hours lectures, 18 hours seminar/workshops, 62 hours project work
- Eligibility: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assessment: assignments, project, exam

Students are introduced to the field of engineering and some tools for tackling real engineering problems, especially those centred on the preliminary stages of the planning and design process. Developing communication skills are integral to the course. Planning and design is taught in lectures and through project work covering topics such as the engineering profession, the design process, creativity, economic concepts, decision theory, environmental assessment, scheduling theory, working in groups, and report writing. Written and oral communication skills are taught in seminar/workshops. Topics include academic and professional language styles, logical cohesion, integrating evidence, the function of a report, and presenting a seminar.

Level II

MECH ENG 2002

Stress Analysis and Design

- 3 units - semester 2
- 48 hours lectures and tutorials
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assumed Knowledge: MECH ENG 1000 Dynamics, C&ENVENG 1001 Statics
- Assessment: assignments, quizzes, finite element labs, labs, final exam

Analysis of stress and strain, Saint-Venant's principle and principal of superposition, Hooke's Law and nonlinear behaviour, theories of torsion, bending and buckling, introduction to finite element analysis and analysis of statically indeterminate beams, strain energy concept, temperature and stress concentration effects, failure theories and applications, design of springs, shafts, keys, splints, pins, bolted joints and welded joints.

MECH ENG 2011

Mechatronics IM

- 2 units - semester 2
- 36 hours lectures and tutorials
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assumed Knowledge: 5576 Electrical Systems A, 4249 Electrical Systems B, or ELEC ENG 1006 Electrical Engineering I or ELEC ENG 1005 Electrical Systems AM, MECH ENG 1000 Dynamics
- Assessment: assignments, in-class quizzes and exam

Introduction to mechatronics; introduction to sensors and actuators; fundamentals of measurement; microprocessor and PLC fundamentals; basic PLC programming and implementation; interfaces between transducers.

MECH ENG 2015
Electronics IIM

- 3 units - semester 1
- 48 hours lectures, tutorials
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assumed Knowledge: ELEC ENG 1005 Electrical Systems AM or ELEC ENG 1006 Electrical Engineering I
- Assessment: practical work , assignments, tutorials, final exam

Signals, amplifiers ,models and imperfections. Diodes, rectifier circuits, wave-shaping circuits, diode logic circuits and voltage regulator circuits. Characteristics of Transistors (BJTs and FETs), modelling transistors and circuits. Circuits analysis. Active filters, PSPICE.

MECH ENG 2018
Design Practice

- 4 units - semester 1
- 77 hours lectures and tutorials, 40 hours workshop practice
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assumed Knowledge: MATHS 1011/1012 Mathematics 1A/1B, C&ENVENG 1001 Statics, MECH ENG 1000 Dynamics
- Assessment: assignments, achievement of design goals, concept report; final report, final exam

The design process; sources of design information; accuracy of engineering quantities; introduction to reliability and applications of statistics; tolerancing and fits; friction clutches and brakes; power transmission belts, gears and chains; rubbing, rolling element and hydrodynamic bearing selection and design. Group design/build/test project involving: conceptual embodiment and detail design; sources of design information; material selection; fabrication methods; troubleshooting; system development; group dynamics; project organisation.

MECH ENG 2019
Dynamics and Control I

- 3 units - semester 2
- 48 hours lectures and tutorials, 9 hours laboratory experiments
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assumed knowledge MECH ENG 1000 Dynamics, APP MTH 2000 Differential Equations and Fourier Series, ELEC ENG 1006 Electrical Engineering 1
- Assessment: small tests, assignments, laboratory experiments, final exam

Velocity and acceleration in mechanisms/linkages; cam follower motion; balancing of rotating masses; gear trains; flywheels; force analysis of plane mechanisms; kinematics and dynamics of gearing; balancing of reciprocating masses. Overview and history of feedback control; models of dynamic systems, including block diagrams and Laplace transforms; characteristics of dynamic response, including transfer functions and poles and zeroes; principles of feedback control, stability considerations; PID control; frequency response design and analysis techniques; root-locus design and analysis techniques.

MECH ENG 2020
Materials and Manufacturing

- 3 units - semester 1
- 48 hours lectures and tutorials
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assumed Knowledge: CHEM ENG 1003 Materials 1
- Assessment: assignments, final exam

Introduction to materials selection. Structure of metals and alloys. Influence of mechanical properties on engineering design: elastic properties, yield, fracture, fatigue, creep. Oxidation and corrosion. Wear. Engineering materials: ferrous alloys, heat treatment of steels, non-ferrous alloys, polymers, ceramics, composites. Manufacturing past, present and future; introduction to the manufacturing function. Introduction to manufacturing processes; economics of machine operations; theory of manufacturing processes. Introduction to design for manufacture.

MECH ENG 2021
Thermo-Fluids I

- 3 units - semester 1
- 48 hours lectures, tutorials and laboratory experiments
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assumed Knowledge: MATHS 1011/1012 Mathematics 1A/1B, PHYSICS 1003 Physics IHE
- Assessment: assignments, final exam

An introduction to mechanical engineering thermodynamics dealing with the application of the first and second laws of thermodynamics to the thermodynamic design and performance analysis of typical thermo-mechanical plant using condensable vapours and gases as the working fluid. Basic fluid mechanics including: kinematics and dynamics of fluid flows; conservation laws applied to fluid flow; Euler, Bernoulli, Navier-Stokes equations; dimensional analysis; differential and integral flow analysis; flow visualisation.

Level III

MECH ENG 3006
Engineering Communication ESL (M)

- 2 units - semester 1 and 2
- 24 hours lectures, workshops
- Eligibility: only for international students from language backgrounds other than English who presented an English language score (IELTS or TOEFL) for admission, or who entered via a Foundation Studies Program; students resident in Australia whose admission was based on Year 12 matriculation studies in a language other than English; students resident in Australia who were eligible to take an ESL unit in Year 11 or 12
- Corequisite: students must be enrolled in a program offered by the Schools of Engineering
- Restriction: not to be counted together with PURE MTH 3015 Communication Skills (ESL) or MATHS 3015 Communication Skills
- Assessment: written assignments, formal oral presentations, discussion groups, attendance & participation, regular language work

The course provides language development in English as a second language for the purposes of oral and written communication in the context of the study of Engineering. It introduces linguistic principles as tools to assist communication in English as a second language and in cross-cultural settings. Class work is designed to develop the capacity of students for communication (in speaking, listening, writing and reading) and critical thinking relevant to their current studies and intended careers in the fields of engineering and computing. Language development tasks are project-based. Tasks and assignments are focussed on academic writing, research and preparing reports, reading, informal academic discussion and formal oral presentation.

MECH ENG 3014
Mechatronics II

- 2 units - semester 1
- 36 hours lectures and tutorials
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assumed Knowledge: MECH ENG 2011 Mechatronics IM, MECH ENG 2019 Dynamics & Control 1
- Assessment: assignments, in-class quizzes and final exam

Advanced PLC programming and implementation: memory and data types, program structure, mathematic functions and PID control, microcontrol systems.

MECH ENG 3016
Aeronautical Engineering I

- 2 units - semester 2
- 36 hours lectures and tutorials
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assessment: assignments, final exam

The aim of the course is to equip students with the necessary knowledge and skills to understand and analyse the design and performance of modern aircraft. The course focuses on the fluid mechanical and thermodynamic aspects of aeronautical engineering as follows: it firstly introduces the basics of flight mechanics and aircraft performance as well as aircraft stability and control. This is followed by low and high Mach number aerodynamics where lift and drag mechanisms as well as design principles and requirements are described. Concluding the course are different methods of thrust generation as well as propeller theory and selection, followed by V/STOL flight.

MECH ENG 3017
Engineering and the Environment

- 2 units - semester 1
- 36 hours lectures and tutorials
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assessment: assignments, final exam

Engineering ethics, noise assessment and control, vibration assessment and control, air pollution assessment and control, water pollution assessment and control, sustainability, sustainable design and manufacture, sustainable buildings, Environmental impact statements, legislative requirements.

MECH ENG 3020
Heat Transfer

- 2 units - semester 1
- 36 hours lectures and tutorials
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assumed Knowledge: MECH ENG 2021 Thermo-Fluids 1
- Assessment: assignments, practicals, final exam

An introduction to the three modes of heat transfer, ie conduction, convection and radiation. Analytical approaches will be stressed where appropriate, but emphasis will be placed on numerical and empirical techniques. Special topics might include heat exchanger applications, mass transfer, heat transfer enhancement and solar radiation.

MECH ENG 3025
Space Vehicle Design

- 2 units - semester 1
- 36 hours lectures and tutorials
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assessment: assignments, final exam

The aim of the course is to introduce the students to the basic theories and design criteria of space vehicles. The first part of the course describes historical developments in space flight and the basic rocket equations, as well as the principles of rocket staging and its optimisation. This is followed by orbital theory, where two-body motion, manoeuvres and special trajectories are described.

A section about rocket propulsion focuses on performance, propulsion requirements and various propellant systems (monopropellant, bipropellant, solid, cold gas and non-chemical propellant systems). Concluding the course will be a description of current developments in space flight, such as the International Space Station and missions to Mars.

MECH ENG 3026
Aerospace Materials and Structures

- 3 units - semester 1
- 48 hours lectures and tutorials
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assumed Knowledge: CHEM ENG 1003 Materials 1
- Assessment: assignments, final exam

The course examines the different types of materials used in the aerospace industry, including metals, ceramics and composites. Selection of the appropriate material for a variety of applications will be discussed in terms of the material properties, ease of manufacture and performance in the anticipated service environment. Case studies will be used to demonstrate the design principles used when using each of these materials for aerospace applications.

MECH ENG 3027
Design and Communication

- 3 units - semester 2
- 70 hours lectures, tutorials and design office
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assessment: assignments, final exam

The course provides written and spoken language development in the context of academic and professional engineering. Class work is designed to develop the capacity of students for effective communication (in writing and seminar presentations) relevant to their current studies and intended professional careers. Students are required to undertake a research project based on a theme relevant to professional engineers. . Design Office - a common group design project which will involve system analysis, concept design, material selection, manufacturing processes, detailed design, drawing and project management, management techniques.

MECH ENG 3028
Dynamics and Control II

- 3 units - semester 2
- 48 hours lectures, tutorials and 4 hours laboratory experiments
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assumed Knowledge: Level II Applied Mathematics courses with an aggregate value of 6 units, MECH ENG 2003 Automatic Control I or MECH ENG 2019 Dynamics & Control 1
- Assessment: assignments, laboratory experiments, final exam

Time domain descriptions of dynamic systems; state-space system models; characteristics of dynamic response (poles, zeros, eigenvalues); specification of controller characteristics, controller design using pole placement; observers; observer design; optimal control (introduction); optimal observers (introduction); digital implementation of control systems. Computer aided control system design. Fundamentals of vibration; free vibration of single degree of freedom systems; forced vibrations; damped vibrations; vibration isolation; vibration absorbers; multi-degree of freedom systems; determination of natural frequencies and mode shapes; vibrations of continuous systems.

MECH ENG 3029
Manufacturing Engineering

- 2 units - semester 2
- 36 hours lectures and tutorials
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assessment: assignments, final exam

The design and control of advanced manufacturing systems. Techniques for the analysis and operation of manufacturing systems. Design for assembly, design for manufacture techniques. Quality management; design for quality statistical process control; quality techniques including quality function deployment and failure mode and effect analysis.

MECH ENG 3030

Structural Design and Solid Mechanics

- 3 units - semester 1
- 48 hours lectures and tutorials
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assumed Knowledge: MECH ENG 3021 Stress Analysis and Design, Level II Applied Maths courses with an aggregate value of 6 units
- Assessment: assignments, final exam

General laws of mechanics and introduction of stress concepts, bending of curved members, theory of photoelasticity, three dimensional photoelasticity, strain-gauge and rosette analysis, finite element methods, elementary plasticity, fatigue analysis, creep and viscoelasticity, pressure vessels. Working in teams using quality assurance and self learning principles to develop an understanding of the properties and behaviour of structural materials and elements together with fabrication, construction and durability aspects. Preliminary sizing of members; assessment of loads; analysis and design of structural members for load capacity and serviceability.

MECH ENG 3031

Thermo-Fluids II

- 3 units - semester 1
- 48 hours lectures and tutorials
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assumed Knowledge: MECH ENG 2021 Thermo-Fluids 1 (or MECH ENG 2013 Fluid Mechanics 1, MECH ENG 2001 Thermodynamics 1), Level II Applied Mathematics courses with an aggregate value of 6 units
- Assessment: assignments, practicals, final exam

Integral analysis of fluid flow, flow of inviscid and viscous fluids; laminar and turbulent flow in pipes and boundary layers; forces on bodies, aerofoil theory, incompressible-flow machines. Vapour power cycles; refrigeration cycles; non-reacting mixtures; psychrometry; combustion.

MECH ENG 3032

Micro-controller Programming

- 3 units - semester 1
- 48 hours lectures, tutorials and laboratories
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assumed Knowledge: CHEM ENG 1002 Engineering Computing 1, MECH ENG 2011 Mechatronics IM
- Assessment: assignments, joint project, final exam

The focus of this course is on the programming and use of micro-controllers in mechatronics applications. Assuming basic knowledge of the C programming language, the material is presented in a combination of lectures, tutorials and hands-on laboratory sessions. The build process of micro-controller software is examined in great detail thereby providing the language for understanding compiler handbooks, on-line publications and micro-controller datasheets. The new skills are then applied in a number of practical case studies covering typical mechatronics applications including servo-mechanisms, sensor interfacing, real-time issues and inter-platform communications. Emphasis will be laid on the confident use of the C programming language using a variety of programming environments. Fault finding techniques will be introduced, ranging from low-level in-circuit debugging to source-level debugging on simulators and evaluation boards. Small-group projects and case studies will be used to provide important hands-on experience with micro-controller based projects.

MECH ENG 3033

Automotive Materials & Structures

- 3 units - semester 1
- 48 hours lectures, tutorials and laboratories
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assumed Knowledge: MECH ENG 2020 Materials & Manufacturing, MECH ENG 2002 Stress Analysis & Design
- Assessment: assignment, laboratory experiment, final exam

The course examines the different types of materials used in the automotive industry, including metals, ceramics and composites. Selection of the appropriate material for a variety of applications will be discussed in terms of the material properties, ease of manufacture and performance in the anticipated service environment. Case studies will be used to demonstrate the design principles used when using each of these materials for automotive applications.

MECH ENG 3034

Advanced Computer Aided Engineering

- 2 units - semester 1
- 36 hours lectures and tutorials
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assumed Knowledge: MECH ENG 1000 Dynamics
- Assessment: assignment, final exam

This course introduces the student to the variety of CAD/CAM packages currently available and in use by the automotive industry. The concept of 3D parametric modeling is introduced with the subject rapidly progressing to more complex modeling features and time saving methods. Communication methods between CAD, CAE and CAM explored to demonstrate the potential of CIM as a

comprehensive engineering and production tool. Guest speakers will provide examples of how this is implemented in the automotive industry (from styling right through to manufacture) and there will be a hands on focus throughout the course.

MECH ENG 3035

Automotive Combustion Technology

- 2 units - semester 2
- 36 hours lectures and tutorials
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assumed Knowledge: MECH ENG 2021 Thermo-fluids I
- Assessment: assignment, laboratory experiment, final exam

This subject will present an overview on the efficiency and pollution aspects of existing combustible fuels and combustion processes that are currently used in the Australian automotive sector. Choice of fuel and the design of efficient engine operating parameters and their by products will all be discussed. Alternative combustible fuels such as diesel, LPG, CNG, Bio-fuel, Ethanol, Methanol and hydrogen will all be considered.

MECH ENG 3036

Automotive Power Train & Vehicle Dynamics

- 2 units - semester 2
- 36 hours lectures and tutorials
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assumed Knowledge: MECH ENG 2021 Thermo-fluids I, MECH ENG 2019 Dynamics & Control I
- Assessment: assignment, laboratory experiment, final exam

This subject is in two parts. Automotive power train will demonstrate the application of thermo-fluid principles to an automotive power plant. Performance aspects associated with engine design, fuel systems, aspiration methods and exhaust will all be explored in detail. Vehicle dynamics will explore the various aspects of chassis, suspension, steering, tyre and brake design in terms of ride comfort, handling, traction, efficiency and general performance of the vehicle.

MECH ENG 3037

Automotive Design and Communications

- 3 units - semester 2
- 70 hours lectures, tutorials and design office
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assessment: assignments, final exam

The course provides written and spoken language development in the context of academic and professional engineering. Class work is designed to develop the capacity of students for effective communication (in writing and seminar presentations) relevant to their current studies and intended professional careers. Students are required to undertake a research project based on a theme relevant to professional engineers. . Design Office - a common group design project which will involve system analysis, concept design, material selection, manufacturing processes, detailed design, drawing and project management, management techniques.

Level IV

MECH ENG 4000

Fundamentals of Non-linear Computational Mechanics

- 2 units - semester 1
- 36 hours lectures and tutorials
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assumed Knowledge: Level II Applied Mathematics courses, especially APP MTH 2002 Vector Analysis and Complex Analysis
- Assessment: continuous assessment 30%, final exam 70%

The course introduces the basic concepts of continuum mechanics which are understood to be prerequisites for modern computational formulations such as the finite element method. While the course provides the language for understanding the handbook of any modern commercial finite element package, of interest for those merely interested in applications, the material covered is nevertheless fundamental for research in many fields of engineering. The course covers: the basic mathematics of tensor algebra, non-linear concepts of strain and stress, classification of constitutive laws, weak and strong forms of field equations, introduction to finite element formulations.

MECH ENG 4002

Combustion Technology and Emissions Control

- 2 units - semester 1
- 36 hours lectures and tutorials
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assumed Knowledge: MECH ENG 2021 Thermo-Fluids 1, MECH ENG Thermo-fluids 2, MECH ENG Heat Transfer
- Assessment: assignments, laboratory experiment, final exam

Combustion presently provides about 80% of global energy and is expected to be a major energy source for many years. At the same time combustion, particularly of fossil fuels, leads to serious pollution problems and is the primary source of human-derived greenhouse gas emissions. An important aspect of a transition to a more sustainable future is therefore to reduce the emissions from combustion-based plants, and to utilise alternative fuels, including

bio-fuels. The aim of the course is to equip candidates with the knowledge and skills necessary to understand, analyse and design modern combustion systems for maximising output and minimising air pollution. Combustion involves both mixing of the fuel and oxidant and the subsequent chemical reactions. The course therefore involves consideration of both combustion aerodynamics and fuel properties. It covers fuel selection, alternative and waste fuels, the design principals involved in reducing pollutant emissions, modeling and safety.

MECH ENG 4003
Fracture Mechanics

- 2 units - semester 2
- 36 hours lectures and tutorials
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assumed Knowledge: MECH ENG 2002 Stress Analysis and Design, MECH ENG 3005 Solid Mechanics, APP MTH 2000 Differential Equations and Fourier Series.
- Assessment: assignments, FE project and final exam

The aim of this course is to develop an understanding of the mechanics of fracture of engineering materials. and to develop a broad understanding of the problems related to mechanics of composite materials which is essential for safe design of engineering components. This understanding is necessary to guide a corresponding design, manufacture, or failure analysis. This course will discuss basic concepts in Mechanics of Fracture and a wide range of practical problems relating to the assessment of the nucleation, growth and catastrophic propagation of structural defects. It also will deepen the understanding of Finite Element Modelling techniques and ANSYS software package.

MECH ENG 4004
Engineering Acoustics

- 2 units - semester 1
- 36 hours lectures and tutorials
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assumed Knowledge: Level II Applied Mathematics courses with an aggregate value of 6 units, MECH ENG 3017 Engineering and the Environment
- Assessment: assignments, laboratory class, final exam

Fundamentals of sound wave description and propagation, the hearing mechanism, acoustic instrumentation, noise criteria, sound source types and radiated sound fields, outdoor sound propagation, sound power measurement techniques, sound in enclosed spaces, sound transmission loss, acoustic enclosures, reactive and dissipative mufflers.

MECH ENG 4007
Mechanical Honours Project Level IV

- 8 units - full year
- 360 hours project work
- Eligibility: mechanical engineering students selected for honours
- Assessment: preliminary report, exhibition, seminar for presentation of results & final report

The aim of the project is to provide solutions to engineering problems related to industry or to departmental research, with emphasis on project management and effective communication.

MECH ENG 4011
Advanced Automatic Control

- 2 units - semester 1
- 36 hours lectures and tutorials
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assumed Knowledge: MECH ENG 2003 Automatic Control 1, MECH ENG 3009 Automatic Control II
- Assessment: tutorials, assignments, exams (written and Matlab)

Advanced topics in automatic control system design. Emphasis will be placed on techniques used to accommodate uncertainty in practical systems.

MECH ENG 4013
Airconditioning

- 2 units - semester 2
- 36 hours lectures and tutorials
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assumed Knowledge: MECH ENG 3020 Heat Transfer
- Assessment: assignments, practical, final exam

Vapour compression cycles; heat transfer in two-phase flow; types, selection and operation of refrigeration plant; psychrometrics; climatic data and its use; load estimation and analysis; constant and variable air volume systems; human comfort and health; cooling and dehumidifying coils; controls; fans and duct systems; system balancing and stimulation; energy efficiency in buildings.

MECH ENG 4019
Mechatronics Honours Project Level IV

- 8 units - full year
- 360 hours of individual project work
- Eligibility: mechatronics engineering students selected for honours
- Assessment: preliminary report, exhibition, seminar for presentation of results and report

Candidates are required to carry out a project in Mechatronics involving both design and research components. The aim of the project is to provide solutions to mechatronic engineering problems related to industry or departmental research activities, with emphasis of project management and effective communication.

MECH ENG 4020
Advanced Vibrations

- 2 units - semester 1
- 36 hours lectures, tutorials and 6 hours laboratory experiments
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assumed Knowledge: MECH ENG 3028 Dynamics & Control II (or MECH ENG 3012 Vibrations), Level II Applied Mathematics courses with an aggregate value of 6 units
- Assessment: assignments, laboratory experiments, final exam

Advanced multi-degree of freedom system analysis; modal analysis; spectrum analysis; machine fault diagnosis; statistical energy analysis; use of vibration; principles of design of vibration equipment; structure borne vibration; mobility; reciprocity; finite element analysis.

MECH ENG 4023
Advanced Topics in Fluid Mechanics

- 2 units - semester 2
- 36 hours lectures, tutorials and project work
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assumed Knowledge: C&ENVENG 1001 Statics, MECH ENG 1000 Dynamics, MECH ENG 2021 Thermo-fluids I, (or MECH ENG 2001 Thermodynamics 1, MECH ENG 2013 Fluid Mechanics 1), MECH ENG 3031 Thermo-fluids 2 (or MECH ENG 3008 Fluid Mechanics 2)
- Assessment: assignments, project, final exam

The course builds on the concepts learned in the core Mechanical Engineering courses and extends these to provide practical interpretive and predictive methods. The syllabus begins with a practical and theoretical overview of modern flow measurement techniques and the methods used to interpret velocity and flow data. These techniques and methods are then applied to fundamental flow cases such as boundary layers and free shear flows. Specific applications of these flow cases are then given through the study of internal flow systems and external flows around air, ground and sea-going vehicles. These include wind tunnels, race cars, high-performance yachts, aeroplanes and sports balls.

MECH ENG 4024
Materials Selection and Failure Analysis

- 2 units - not offered in 2005
- 36 hours lectures and tutorials
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assumed Knowledge: CHEM ENG 1003 Materials I
- Assessment: written exam 70%, assignments 30%

The course will consider factors in materials selection such as properties, processing, design, cost specifications and codes. The competition between materials and fabrication methods will be illustrated through detailed case studies. Failure analysis is considered in terms of investigative procedures, principal causes of failure (fracture, fatigue, corrosion and wear) and the application of simple fracture mechanics. Several case studies are considered in detail.

MECH ENG 4025
Topics in Welded Structures

- 2 units - semester 1
- 36 hours lectures and tutorials
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assumed Knowledge: CHEM ENG 1003 Materials I
- Assessment: assignments, laboratory class, final exam

This course presents the concepts behind welding and joining technology. These include welding and joining techniques, equipment and consumables, weldability of engineering materials, economics, standards, health and safety, testing and repair. The concepts are then applied to the design and fabrication of engineering components, process plant and structures. The importance of selecting the correct welding process and parameters for a particular application will be demonstrated by investigating several case studies. Since a weld/joint can have a profound effect on the performance of a component depending on the in-service conditions it experiences, the influence of service environment will be investigated. At the end of the course students should have the concepts to assist in the selection of processes and parameters to make appropriately designed, sound joints, fit for service in the operating environment.

MECH ENG 4026
Environmental and Architectural Acoustics

- 2 units semester 2
- 36 hours lectures and tutorials
- Eligibility: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling

- Assumed knowledge: MECH ENG 3017 Engineering and the Environment
- Assessment: assignment, project, final exam

Outdoor sound propagation models, Australian and International standards for outdoor noise, transport noise and the use of computer models for outdoor noise prediction. Room acoustics, parameters for architectural acoustics, ray tracing and software models.

MECH ENG 4027
Robotics M

- 2 units - semester 1
- 24 hours lectures and 12 tutorials
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assumed Knowledge: MATHS 1011/1012 Mathematics IA/1B, MECH ENG 2001 Mechatronics IM, MECH ENG 2019 Dynamics & Control I (or MECH ENG 2005 Machine Dynamics), MECH ENG Dynamics & Control II (or MECH ENG 3009 Automatic Control II)
- Assessment: assignments, exam

Classification of robotic systems; transformation of coordinates; kinematics and inverse kinematics; Jacobians and robot dynamics; trajectory generation; robotic modelling; control loops for robots; image processing; industrial robot programming and applications.

MECH ENG 4028
Mechatronics IIIM

- 2 units - semester 2
- 36 hours lectures and tutorials
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assumed Knowledge: MECH ENG 2015 Electronics IIM, MECH ENG 2011 Mechatronics IM, MECH ENG 3014 Mechatronics II
- Assessment: assignments, exam

Project-based course, design and analysis of mechatronic systems; digital signal processing (DSP) for mechatronics systems, fuzzy logic and fuzzy control, artificial intelligence algorithms and their applications, micro-manipulation and micro-electro-mechanical systems (MEMS).

MECH ENG 4033
Mechanical Signature Analysis

- 2 units - semester 1
- 36 hours lectures and tutorials
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Eligibility: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assumed Knowledge: MECH ENG 2011 Mechatronics IM, APP MTH 2000 Differential Equations and Fourier Series
- Assessment: assignments, final exam

Introduction to mechanical signature analysis; vibration measurement and instrumentation; signal processing and analysis; filtering; frequency domain analysis; vibration monitoring; introduction to condition monitoring; modal analysis.

MECH ENG 4034
Aerospace Navigation and Guidance

- 2 units - semester 2
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assessment: assignment, final exam

The course will comprise two components: Navigation: this will cover theory, and the principles of operation and performance modeling of navigation technologies with particular emphasis on technologies that are used to support aeronautical applications. This material will cover inertial navigation technologies, satellite navigation technologies such as GPS and terrestrially based navigation systems such as Loran-C. Technologies which support astronautic applications will also be considered. Guidance: this will cover the principles on which aircraft flight plans and space vehicle orbital manoeuvres are designed and to which a flight vehicle's motion is controlled. This section will cover both open loop flight path generation and closed loop autopilot aspects of the control of flight vehicles.

MECH ENG 4035
Aerospace Honours Project (Level 4)

- 8 units - full year
- 360 hours project work
- Eligibility: aerospace engineering students selected for honours
- Assessment: preliminary report, exhibition, seminar for presentation of results and final report

The aim of the project is to provide solutions to engineering problems related to industry or to departmental research, with emphasis on project management and effective communication.

MECH ENG 4036
Aerospace Propulsion I

- 2 units - semester 1
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assessment: assignment, final exam

Basic principles of rocket propulsion and rocketry, propellant, nozzle theory and their influence on design of rockets, internal and external ballistics, combustion processes and instability.

Fundamentals of rocket motor components and design, solid rocket grain structural behaviour, and plume technology.

MECH ENG 4037
Aerospace Propulsion II

- 2 units - semester 2
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assessment assignment, final exam

Fundamentals of rocket and air-breathing (gass turbines, ramjets, turbojets, turboprop) jet propulsion systems. Prediction of thrust, combustion reactions, specific fuel consumption, and operating performance. Aero-thermodynamics of inlets, combustors, nozzles, compressors, turbines and component matching.

MECH ENG 4038
Engineering Management and Professional Practice

- 2 units - semester 1
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assessment: assignments, final exam

The course aims to provide Engineers with an understanding of the following four areas. Innovation: What is innovation; why it matters; sources of innovation; new product development as well as process innovation or continuous improvement. Links between strategic planning and innovation. People and organisations: Individuals at work (human behaviour, motivation); working with others (group dynamics, power, leadership); organisational design (systems, human resource management, corporate culture, organisational transformation). Ethics: The understanding of ethical issues and how they affect business. Legal Issues: The nature of contracts, formation of contracts and personal and legal liability. Protecting intellectual property.

MECH ENG 4039
Finance for Engineers

- 2 units - semester 2
- 36 hours lectures and tutorials
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assessment: assignments

This course aims to provide Engineers with an introduction to the fundamentals of business decision-making common to all forms of organisation. The course focuses on the requirements of project management, including the need to communicate complex financial arguments effectively. It is designed to provide students with a basic understanding of financial statements, capital budgeting, cost behaviour and costing systems.The course provides students with the theoretical essentials for practical implementation of the main concepts covered.

MECH ENG 4040
Hypersonic Flow

- 2 units - semester 1
- 36 hours lectures and tutorials
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assessment: assignments, final exam

The aim of this course is to introduce students to the fundamentals and practical aspects of hypersonic flows and the design and operation of re-entry vehicles. The course deals with the basic characteristics of hypersonic flows; experimental, analytical and computational modelling; surface heating; forces and moments on re-entry vehicles; re-entry methods and vehicle design.

MECH ENG 4041A/B
Mechanical Design Project Level IV

- 8 units - full year
- 360 hours project work
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Restriction: not for students undertaking an honours degree
- Assessment: preliminary report, exhibition, seminar for presentation of results and final report

The aim of the project is to provide solutions to engineering problems related to industry or to departmental research, with a primary emphasis on engineering design. Emphasis will also be placed on management and effective communication.

MECH ENG 4042
Fire Engineering

- 2 units - semester 2
- 36 hours lectures and tutorials
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assessment: project, practical class, assignments, final exam

Building fire safety fundamentals, basic concepts of fire and explosion, zone and field fire modeling, the history and philosophy of fire related building legislation, the Building Code of Australia, legal issues, fire load, fire development and design calculations, smoke management systems and design calculations, occupant egress and fire brigade access, fire suppression systems, fire brigade intervention fire induced building collapse, human behaviour at time of fire and performance based fire engineering design solutions. A practical session (circumstances permitting) will involve a site visit to the Brukunga fire training establishment in

SA to witness live fire training as provided for fire fighters in the metropolitan and country fire services, and to measure some aspects of fire impact as a laboratory activity.

MECH ENG 4046
Computation Technique for Engineering Applications

- 2 units - semester 2
- 36 hours lectures and tutorials
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assessment: assignment, final exam

This course introduce to students computational techniques used in engineering applications. The course focus is on current techniques used in the industry, its capabilities and application. Students will learn about modeling fluids flow using computational fluid dynamics techniques and solid mechanics using finite element techniques. The emphasis will be on practical engineering problems.

MECH ENG 4047
Automotive Honours Project Level IV

- 8 units - not offered in 2005
- 360 hours project work
- Eligibility: automotive engineering students selected for honours
- Assessment: preliminary report, exhibition, seminar for presentation of results, final report

The aim of the project is to provide solutions to engineering problems related to industry or to departmental research, with emphasis on project management and effective communication.

MECH ENG 4048
Automotive Design Project Level IV

- 8 units - not offered in 2005
- 360 hours project work
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Restriction: not for students undertaking an honours degree
- Assessment: preliminary report, exhibition, seminar for presentation of results, final report

The aim of the project is to provide solutions to engineering problems related to industry or to departmental research, with a primary emphasis on engineering design. Emphasis will also be placed on management and effective communication.

MECH ENG 4050
Mechatronics Design Project Level IV

- 8 units - full year
- 360 hours project work
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Restriction: not for students undertaking an honours degree
- Assessment: preliminary report, exhibition, seminar for presentation of results, final report

The aim of the project is to provide solutions to engineering problems related to industry or to departmental research, with a primary emphasis on engineering design. Emphasis will also be placed on management and effective communication.

MECH ENG 4051
Aerospace Design Project Level IV

- 8 units - full year
- 360 hours project work
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Restriction: not for students undertaking an honours degree
- Assessment: preliminary report, exhibition, seminar for presentation of results, final report

The aim of the project is to provide solutions to engineering problems related to industry or to departmental research, with a primary emphasis on engineering design. Emphasis will also be placed on management and effective communication.

MECH ENG 4052
Introduction to Biomechanics

- 2 units semester 2
- 36 hours lecture and tutorials
- Eligibility: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assumed Knowledge: MECH ENG 4000 Fundamentals of Non-linear Computational Mechanics
- Assessment: assignment, final exam

In recent years biomedical engineering has become one of the fastest growing areas of engineering, worldwide. It lies at the overlap of classical engineering disciplines with the biosciences and medicine. Biomechanics plays a central role in the discipline of biomedical engineering. It is concerned with the application of methods and concepts of mechanics, well established in all other engineering disciplines, to understand and predict the behaviour of soft and hard living tissues as well as to study bio-fluids and their flow. The course introduces basic concepts to describe the behaviour of soft tissues as encountered when studying the skin,

the brain or organs such as the heart or the lung. The same concepts can be applied to understand hard tissue behaviour as related to bone material. Also basic aspects of biofluids are covered.

Engineering - Petroleum

Level I

PETROENG 1000

Introduction to the Petroleum Industry

- 2 units -semester 1
- Lectures & discussion/presentation sessions
- Available for Non-Award study
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assumed knowledge: SACE Stage 2 Mathematical Studies and Specialist Mathematics, Physics
- Assessment: written assignments, presentation, exam

Seminar-based overview of the petroleum industry: organization in terms of technical groups, disciplines and teams; strategic business aspects and economic drivers; overview of technology, research and technical challenges; case histories of development projects and producing fields.

PETROENG 1001

Introduction to Rock and Fluid Properties

- 2 units - semester 2
- Lectures & tutorials/practicals
- Available for Non-Award study
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling.
- Assumed Knowledge: SACE Stage 2 Mathematical Studies and Specialist Mathematics, Physics
- Assessment: assignments, exam

Fundamental rock properties used in reservoir engineering calculations and formation evaluation. Composition of petroleum fluids and the many uses of petroleum products. Basic physical and chemical properties of petroleum reservoir fluids related to reservoir processes and the production of oil and gas.

PETROENG 1003

Introduction to Petroleum Geosciences

- 2 units -semester 2
- Lectures, tutorials/practicals & field trip
- Available for Non-Award study
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assumed Knowledge: SACE Stage 2 Mathematical Studies and Specialist Mathematics, Physics
- Assessment: assignments, exam

Fundamentals of geology and geophysics with emphasis on petroleum systems. Seismic principles and basic geological mapping and correlation. Introduction to depositional environments and geological modelling. Wellsite geology and introduction to petrophysics.

Level II

PETROENG 2001

Reservoir Thermodynamics and Fluid Properties

- 2 units - semester 2
- Lectures & tutorials/practicals/labs
- Available for Non-Award study
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling.
- Assessment: assignments, exam

Fluid properties and the application of mass and energy balances to a variety of petroleum systems. Introduction to phase behavior and chemical reaction equilibria (flash calculations with k-values); and equation of state applications and modeling.

PETROENG 2005

Sedimentology and Stratigraphy

- 2 units - semester 2
- Lectures & tutorials/practicals, and field trip
- Available for Non-Award study
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling.
- Assessment: assignments, exam

Applications of sedimentology and stratigraphy to petroleum exploration and development. Details of depositional environments and diagenesis; lithostratigraphy, and biostratigraphy methods of correlation, and elements of geochemistry.

An overview of the different techniques for evaluating formation characteristics: drilling parameters and cuttings, static pressure surveys, fundamentals of pressure transient analysis, fundamentals of open hole logging and interpretation, conventional and special core analysis.

PETROENG 2007

Production & Facilities Engineering Fundamentals

- 2 units - semester 1
- Lectures & tutorials/practicals
- Available for Non-Award study

- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assessment: assignments, exam

Introduction and overview to production and facilities engineering: practical aspects of well productivity and performance, and basic well design elements; performance and design criteria for onshore production and surface facilities. Both gas and oil well/field situations are covered. The course also covers production reporting formats and requirements, and elements of production data analysis.

PETROENG 2008

Fundamentals of Reservoir Engineering

- 3 units - not offered in 2005
- Lectures & tutorials/practicals
- Available for Non-Award study
- Assumed Knowledge: PETROENG 1001 Introduction to Rock and Fluid Properties
- Assessment: assignments, exam

Darcy's Law and Applications, Concepts of permeability, Relative permeablitiy, Capillary pressure, Wettability, Material Balance Equations for Different Types of Reservoirs and Drives, Aquifer Behavior and Water Influx, Immiscible Displacement, Buckley-Leverett theory, Gravity-Stable Displacement, Water and gas Injection, Coning and Cusping, Decline Curve Analysis, Introduction to Pressure Transient Analysis, Field Development Issues and EOR/IOR.

PETROENG 2009

Formation Evaluation, Petrophysics and Rock Properties

- 3 units - semester 1
- Lectures & tutorials/practicals
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assessment: assignments, exam

Practical understanding of the interpretation: wireline tools and techniques, open and some cased hole log analysis methods for the determination of lithology, porosity, fluid content and movement and net pay. Laboratory based conventional and special core analysis techniques. Both qualitative (quick look) and quantitative analyses methods are covered. An overview of dipmeter, MWD and some cased hole logs is also given. The course covers logging operations and logging program design aspects. Practical examples, case histories and laboratory practical classes are used extensively throughout.

Level III

PETROENG 3001

Fundamentals of Numerical Reservoir Simulation

- 3 units - semester 2
- Lectures & tutorials
- Available for Non-Award study
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling.
- Assessment: assignments, exam

Fluid flow equations, numerical solutions to fluid flow equations, finite difference approximations, matrix techniques for simultaneous equations, iteration schemes, well models, simulation data and studies.

PETROENG 3002

Economic Evaluation

- 3 units - semester 1
- Lectures & tutorials
- Available for Non-Award study
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assessment: assignments, exam

Economic concepts, discounted cash flow, net present value, economic indicators, sensitivity analysis, decision tree analysis, probabilistic methods, options, introduction to different fiscal regimes, analysis of various project situations.

PETROENG 3003

Reservoir Engineering

- 3 units - semester 2
- Lectures & tutorials
- Available for Non-Award study
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assessment: assignments, exam

Physical and mathematical theory of flow; steady laminar flow of homogeneous fluids; transient laminar flow of homogeneous fluids; simultaneous flow of immiscible fluids; moving boundary problems, displacement, deposition of solids; simultaneous laminar flow of miscible fluids and flow with change in phase.

PETROENG 3005

Reservoir Characterisation and Modelling

- 3 units - semester 1
- Lectures & tutorials
- Available for Non-Award study
- Assessment: assignments, exam

Lectures on producing field situations: reservoir processes and performance; well design options and performance; production policies and government regulation; field monitoring and surveillance; facilities constraints and impact of alternative facilities concepts; uncertainties and risk.

Concepts of reservoir characterisation; integration of major elements: seismic framework, geological model, rock properties; attribute analysis; geostatistical methods: distributions, sampling, estimation, variograms; upscaling; simulation and visualisation.

PETROENG 3007

Well Testing and Pressure Transient Analysis

- 3 units - semester 1
- Lectures & tutorials
- Available for Non-Award study
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assessment: assignments, exam

Well test objectives and concepts; fluid flow equation and fundamental solution; classical methods: drawdown and buildup analysis, bounded reservoirs; gas well testing; type curves and derivatives; complex systems: multi-layer, dual-porosity, hydraulic fractures; interference and pulse testing; test design.

PETROENG 3012

Engineering Communication ESL (P)

- 2 units - semester 1 or 2
- 36 hours lectures & discipline-specific language tutorials
- Available for Non-Award study
- Eligibility: for International students from language backgrounds other than English who presented an English language score (IELTS or TOEFL) for admission, or who entered via a Foundation Studies Program; students resident in Australia whose admission was based on Year 12 matriculation studies in a language other than English; students resident in Australia who were eligible to take an ESL unit in Year 11 or 12
- Corequisite: students must be enrolled in a program offered by the Schools of Engineering
- Restriction: not to be counted towards any degree together with PURE MTH 3016 Communication Skills (ESL) or MATHS 3015 Communication Skills.
- Assessment: 3 written assignments 60%, informal & formal oral presentations 30%, tutorial participation, regular weekly language work 10%

The course provides language development in English as a second language for the purposes of oral and written communication in the context of the study of Engineering. It introduces linguistic principles as tools to assist communication in English as a second language and in cross-cultural settings. Class work is designed to develop the capacity of students for communication (in speaking, listening, writing and reading) relevant to their current studies and intended careers in the fields of engineering and computing. Language development tasks are project-based and require students to take themes chosen from the disciplines in which they are enrolled. Tasks and assignments are focussed on technical writing, preparing reports, reading, informal technical discussion and formal oral presentation.

PETROENG 3018

Drilling Engineering and Well Completion

- 3 units - semester 2
- Lectures & tutorials
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assessment: assignments, exam

The course covers the fundamentals of drilling engineering and well completion. In the area of drilling; the following are covered: the drilling process; equipment and performance; well pressure control and buoyancy; fluid design; well casing design and cementing techniques; overview of drilling operations. Well completions addresses: concepts and types of well completion design; overview of well performance; tubing string sizing and design; specialized components: wellheads, packers, expansion joints, subsurface safety valves etc; artificial lift design: beam pumping, gaslift, electric submersible pumps; introduction to well stimulation.

PETROENG 3019

Structural Geology and Seismic Methods

- 3 units - semester 2
- Lectures & tutorials
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assessment: assignments, exam

Structural Geology: Basic concepts of stress (resolving stresses and Mohr Circle) and rock failure (friction, Coulomb); present-day stresses from oil field data; implications for wellbore stability and water flooding; basic concepts of structural geology; faults; folds; structural traps and fault seal analysis. Seismic Methods: Concepts in seismic analysis; seismic data acquisition: field-concepts, elements of data acquisition systems, marine data acquisition; seismic data processing: time series analysis, processing methods,

seismic migration, inverse theory and applications; seismic data interpretation: seismic interpretation principles, structural styles, mapping, seismic stratigraphy, velocity modeling, attribute analysis.

PETROENG 3020
Production Optimisation and Project

- 3 units - semester 1
- Project discussions, project work, presentation
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assessment: assignments, project (written & oral presentation)

This course involves minimal lecturing but rather hands-on experience with students working in teams on actual field data, using a range of software packages, with the aim of optimising field production situations. As such it is a practical component or design course. The course will address the following: reservoir performance, well performance and aspects of facilities optimisation, a total systems approach (nodal analysis).

Level IV

PETROENG 4002
Enhanced Oil Recovery

- 3 units - semester 1
- Lectures & tutorials
- Available for Non-Award study
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assessment: assignments, exam

This course will cover theory and applications of various EOR processes. Also, students will be exposed to IOR techniques. Application aspects will be demonstrated through exercises and one large assignment that will require use of a commercial simulator.

PETROENG 4003
Reservoir Geology for Engineers

- 2 units - semester 1
- Lectures & tutorials
- Available for Non-Award study
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assessment: assignments, exam

This course will provide participants with a working knowledge of the main techniques (qualitative and quantitative), used by Development geologists in evaluating subsurface reservoir properties. Geological controls on porosity, permeability, relative permeability, and capillarity are discussed. Case histories review conventional methods of determination of net pay in a reservoir and demonstrate some improved techniques using data from core, sidewall core, cuttings, conventional plug measurements (porosity and permeability) in conjunction with capillary pressure data. The course focus will be on conceptual understanding and practical applications using hands-on exercises.

PETROENG 4004
Petroleum Engineering Honours Project

- 4 units - semester 1
- 96 hours minimum project discussions, project work presentation
- Eligibility: Honours students only
- Assessment: major research/study assignment & written report, presentation of project

Honors students will choose a research project from a list of available topics. A written report and an oral presentation is expected at the conclusion of various projects. The honors projects are intended to give students a taste for research and will prepare them in part to carry on their studies for a higher degree. Students are expected to work a minimum of four weeks on their projects.

PETROENG 4009
Integrated Reservoir Management

- 3 units - semester 1
- Lectures & tutorials
- Available for Non-Award study
- Eligibility: for students in specified programs only, please check Academic Rules of the program is which you are enrolling
- Assessment: assignments, exam

This course is aimed at bringing together learnings from geology, geophysics, formation evaluation reservoir engineering, wellbore engineering and surface facilities engineering. It will discuss a wide variety of reservoir description, surveillance, interpretation, studies, reserves determination, production forecasting and operational considerations which together constitute Integrated Reservoir Management. It focuses on providing a basis for practical development and implementation of integrated Reservoir Management and Reserves Optimisation programs with emphasis on cost effectiveness and economic justification.

PETROENG 4010
Project Management

- 3 units - semester 2
- Lectures & tutorials
- Available for Non-Award study
- Eligibility: for students in specified programs only, please check Academic Rules of the program is which you are enrolling
- Assessment: assignments, exam

This course will give students an understanding of all major aspects of project management, dealing with internal (company) and external requirements (government, partners, contractors etc). In particular, the course emphasizes the core requirements for major projects, from planning to scheduling and control, including management of uncertainty and risk. Participants will be introduced to the large diversity of jargon and terms, covering such important areas as the engineering Basis of Design (BoD), and project processes such as 'Tollgating' and Project Implementation Review (PIR). Guidelines and standards, as well as "best practice" will be demonstrated by numerous examples and case histories will be used throughout to demonstrate important learnings, particularly where projects have fallen short from expectations.

PETROENG 4020

Petroleum Engineering Design Project

- 4 units - semester 1
- 96 hours minimum project discussions, project work presentation
- Available for Non-Award study
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assessment: major research/study assignment & written report, presentation of project

Students will be assigned a group design project using available field data. A written report and an oral presentation is expected at the conclusion of various projects. Students are expected to work a minimum of four weeks on their projects.

PETROENG 4022

Integrated Field Development Planning and Economics Project

- 3 units - semester 2
- Lectures & tutorials
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assessment: assignments, project (written & oral presentation)

Field Development Planning, gives an overview of the process and methods for developing an optimum plan for developing a petroleum deposit. Key project drive indicators are discussed and it is shown how various disciplines interact in their quest for maximising the value of a project. The course covers all aspects of field development planning, commencing with screening studies, after discovering hydrocarbons, to project sanction. In particular, it is shown that this development phase has the potential to add maximum value, when compared to all other phases of the life cycle, as such it is most critical. Critical aspects are presented in detail in terms of actual case histories. It is shown how a proper balance has to be struck among key elements: reservoirs, wells and facilities, not to mention the balance between minimising costs and maximising recovery. Other key essentials, such as flexibility and risk management are also covered.

The project, part of the course, is based on an actual data set involving an offshore project. The aim is to study the exploration results and to develop a recommendation for the optimum field appraisal plan. When the actual plan and data is revealed, the second part of the project involves the feasibility and derivation of the optimum development plan. Course participants work in small teams and have to submit written plans and give presentations in front of a panel.

PETROENG 4023

Oil and Gas Resources and Reserves

- 3 units - semester 2
- Lectures & tutorials
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assessment: assignments, exam

This course explains the strength and weaknesses of various reserves estimating methodologies, including the difference between resources and reserves. Exploration and development views will be covered, as are deterministic and probabilistic methods, with the aim of gaining a thorough understanding of various reserves levels and their equivalence in both systems, in terms of proved, proved plus probable, and proved plus probably plus possible. Methodologies of different countries will be covered. Statistical software will be used to demonstrate important concepts and to handle complex scenarios. The course will cover alternative estimation methods, such as volumetrics, material balance and decline curve analysis. An appreciation will be gained of data limitations and uncertainty and how this is reflected in final volumes and hence risk. The course also covers management and commercial issues and regulations.

PETROENG 4024

Decision Making Under Uncertainty

- 3 units - semester 2
- Lectures & tutorials
- Eligibility: for students in specified programs only, please check Academic Rules of the program in which you are enrolling
- Assessment: assignments, exam

This course teaches the skills required for a key management role - creating value by making decisions that yield optimal returns on the allocation of human and financial resources. There are many uncertainties inherent in the oil and gas business, both in assessing current 'states-of-the world/nature' and in predicting future events. This leads to considerable uncertainty in the value that can be realised from many resource-allocation decisions. Consequently, there will be a strong emphasis on evaluating the impacts of uncertainty, managing its resultant risks and planning to exploit its up-side potential. Topics to be addressed are decision-making process, multi-objective decision making, decision–tree analysis, decision criteria and Monte Carlo simulation.

English

Level I

ENGL 1101

Introduction to English: Ideas of the Real

- 3 units - semester 1
- 2 lectures, 1 tutorial per week
- Available for Non-Award study
- Assumed Knowledge: ability to write clear, correct English
- Restriction: English IB
- Assessment: participation, assignment, essay, exam

This course will introduce students to a number of texts that deal with issues of reality and its representation. These texts will include a variety of genres: fiction, drama, short fiction, poetry and film. Students will gain an understanding of the terms Realism, Modernism and Postmodernism, as well as an introduction to contemporary approaches to English studies. The course is designed to introduce students to a range of interpretive practices, and to increase students' skills in critical reading, analysis, writing and research.

ENGL 1102

Introduction to English: Gothic

- 3 units - semester 2
- 2 lectures, 1 tutorial per week
- Available for Non-Award study
- Assumed Knowledge: ability to write clear, correct English
- Restriction: English IA
- Assessment: participation, assignment, essay and examination

The course provides an introduction to a number of key texts and films in the gothic mode. Students are encouraged to engage in a variety of contemporary approaches to examples of fiction, poetry, short fiction and film. Introduction to English: Gothic aims to increase students' skills in critical reading and viewing, analysis, writing, research and referencing.

ENGL 1104

Professional English (ESL)

- 3 units - semesters 1 & 2
- Lecture online, 2 hour workshop per week, provision for individual consultations
- Quota may apply
- Restriction: not available to students who have undertaken SACE Stage 2 English or equiv, English for Professional Purposes (ESL)
- Assessment: participation, written assignments, public speaking, exam

Professional English (ESL) is a practical course for students who are still developing fluency in written and spoken English, and who wish to improve their expression in the context of business communications. It is appropriate for students whose first language is not English. Common business documents are studied, as well as grammar, syntax and style. Workshops focus on: business letters; electronic communication; public speaking; job application packages; informative summaries and analysis; academic writing skills; grammar, tone and fluency.

ENGL 1105

Media Studies

- 3 units - semester 2
- 2 lectures, 1 tutorial per week
- Available for Non-Award study
- Assumed Knowledge: ability to write clear, correct English
- Assessment: participation, essays, assignments

Students will gain an overview of the key areas and debates in media studies. Topics examined include the Press, film, television, radio, music, the web, and new media. This course provides an introduction to methodologies for the analysis of media industries and products. Media Studies aims to increase students' skills in critical reading, research, analysis, and writing.

ENGL 1106

Landmarks in English Literature: Chaucer to Austen

- 3 units - semester 1
- 2 lectures, 1 tutorial per week
- Available for Non-Award study
- Assessment: essay 30%, exam 50%, class participation 10%, tests on written expression 10%

This course will look closely at six works from the 14th to the 18th centuries: Chaucer's General Prologue to the Canterbury Tales; Shakespeare's Coriolanus; Milton's Paradise Lost, Books 1 & 2; Fielding's Joseph Andrews; Swift's Gulliver's Travels; Austen's Northanger Abbey. Although these texts are all seminal works by major authors, they are not currently taught in other courses in the English discipline; they help to provide a sound basis for further study in English literature and to illustrate the historical development of the language. There are fewer texts in this course than is usual in the English Discipline, and students will be expected to show that they know them thoroughly. Besides discussion of literary matters, some time will be given in tutorials to discussion of current problems in English usage. The course is designed to increase students' knowledge of pre-19th century English literature and of the development of the language in the post-medieval period, and their skills in close reading, critical analysis, and effective writing.

Level II

ENGL 2001
Everyday Life in Australia

- 4 units - semester 2
- Lecture, 2 hour seminar per week
- Prerequisite: 6 units Level I Humanities/Social Sciences
- Restriction: Australian Cultural Studies
- Assessment: essays, presentations, take-home exam.

This course analyses contemporary Australian culture using theories and methodologies from the area of cultural studies. Students are expected to read widely in cultural studies and to situate their analyses of Australian culture within wider debates in cultural studies. The areas of Australian culture examined are popular literary forms, everyday life, television, and film. The course includes an optional overnight trip to the Coorong to learn from Ngarrindjeri people about their traditional and contemporary culture.

ENGL 2004
Australian Colonial Visions

- 4 units - semester 2
- Lecture, 2 hour seminar per week
- Prerequisite: 6 units Level I Humanities/Social Sciences
- Assessment: essays, seminar presentation, participation

The aim of this course is to explore the representation of colonialism in the Australian context. Students will be invited to analyse the ways in which a broad range of texts - explorer journals, settler memoirs, travel narratives, visual art and fiction - reveals the development of and shifts in Australian colonial culture. The course will particularly address such issues as the representation of indigenous people, the gendered nature of the frontier, and the changing features of colonial popular thought.

ENGL 2006
Contemporary Australian Film

- 4 units - semester 1
- Lecture, 2 hour seminar per week
- Assessment: essays, seminar presentation, participation.
- Prerequisite: 6 units level I Humanities/Social Sciences
- Assessment: participation, seminar paper, exam

This course examines recent Australian films through a cultural studies framework, introducing students to a range of theoretical approaches to film. The course has a particular focus on the way that contemporary Australian films deal with questions of gender, class, race, sexuality and national identity.

ENGL 2008
Early English Language and Literature

- 4 units - semester 2
- 2 lectures, 1 tutorial per week
- Assessment: tutorial paper on historical/cultural topic of student's choice 30%, language assignment - comparison of passage of Old English with passage of later English 30%, exam containing passages from the set texts for translation & comment 40%

This course looks at the English language in the time of the Anglo-Saxons and the changes it underwent as a result of the Viking invasions in the ninth and tenth centuries, the Norman Conquest in the eleventh, and the eventual loss of their Norman lands by the monarchs of England in the subsequent centuries. It does not assume that students can learn Old and Middle English within the space of one semester, but aims to familiarise them with examples of the literature produced, and with the major changes the language underwent, within the first 800 years after the earliest Anglo-Saxon invasions. Essay and tutorial topics will enable students to pursue historical and cultural, as well as linguistic, interests in the period.

ENGL 2016
English for Professional Purposes

- 4 units - semester 1
- Lectures online, 2 hour tutorial per week
- Prerequisite: 6 units Level I in any discipline
- Restriction: Professional English (ESL), English for Professional Purposes (ESL)
- Assessment: participation, class exercises, essays, exam

This is a developmental course for students wishing to achieve greater linguistic competence in written expression and/or to enhance fluency and style in the context of professional and business communications. Common business documents are studied, as well as grammar, syntax, the construction of an argument and editing.

ENGL 2018
Renaissance Writing

- 4 units - semester 2
- Lecture, 2 hour seminar per week
- Prerequisite: 6 units Level I Humanities/Social Sciences
- Assessment: essay, examination, class work

This course is a close study of plays, poetry and prose works from the early modern period. The course considers some of the conditions of reading and writing for men and women in the period, and it introduces debates about the importance of early modern ideas for understanding contemporary models of history, nation, difference and identity.

ENGL 2022

World Literature in English

- 4 units - semester 1
- Lecture, 2 hour seminar per week
- Prerequisite: 6 units level I Humanities/Social Sciences
- Assessment: participation, seminar paper, essay

In this course students will consider a range of new texts that span diverse cultural traditions and are representative of writing that has helped shape a new literary landscape. The main focus of the course will be on the multiplicity of literatures in English with a particular emphasis on writing that asserts difference, both in culture and genre, and demonstrates the interrelatedness of identity, place, history, gender and race in postcolonial writing. Students will have the opportunity to analyse and respond (in presentations and in writing) to works by writers such as Salman Rushdie, Michael Ondaatje, JM Coetzee, Lesley Marmon Silko (North American Indian), Kerri Hulme (NZ), Ben Okri (Nigerian), and others.

ENGL 2025

Telling Tales

- 4 units - semester 1
- Lecture, 2 hour seminar per week
- Prerequisite: 6 units level I Humanities/Social Sciences
- Assessment: participation, seminar presentation, essays

The aim of this course is to explore the nature of narrative and to look at ways in which narrative informs ideas of selfhood. It will consider the relationship between consciousness and time and the various ways in which the senses, memory, fantasy and imagination influence narrative and its interpretation. It will draw on psychoanalytic and philosophical theories to consider (gendered) concepts of desire, subjectivity, sexuality, identity, and individuality.

ENGL 2028

The Short Story: Introduction to Creative Writing

- 4 units - semester 2
- Lecture, 2 hour seminar per week
- Prerequisite: 6 units level I Humanities/Social Sciences
- Assessment: participation exercises, short story, mid-semester in-class exam.

This course is designed as an introduction to the craft and culture of short fiction and prose. Students will be introduced to a range of contemporary and some earlier short texts from American, Australian, British, European and other literatures. The course aims, through creative writing and reading, to broaden students' understanding and appreciation of the range of writing in short forms. The short story is particularly appropriate for encouraging comparative analysis between literary cultures and phases of literary development. Students will be encouraged to use short texts as models for their own creative explorations. An anthology of short texts, especially tailored for the course, will be made available to students.

ENGL 2029

Reading and Writing Poetry

- 4 units - semester 1
- 2 lectures, 1 tutorial per week
- Assessment: 4 exercises in writing different kinds of verse in traditional metres 50%, tutorial presentation on poem of student's choice 10%, exam involving scansion & critical appreciation of unseen poems 40%

This course focuses on poetic forms and metres from the sixteenth century to the present. It requires students to familiarise themselves with a wide variety of traditional forms (excluding free verse), to analyse them critically, and to compose verse themselves in a selection of the metres studied. Students will increase their knowledge of traditional forms and genres of English poetry, as well as their skills in scansion and their critical awareness of the relationship between form and meaning in poetry. This is not a creative writing course: its emphasis is on appreciation rather than composition; nevertheless, the discipline of learning to write in tight metrical forms can only be of benefit to those who have aspirations towards writing poetry.

ENGL 2031

Hollywood or Bust!

- 4 units - semester 1
- Lecture, compulsory 2 hour seminar per week
- Prerequisite: 6 units level I Humanities/Social Sciences
- Assessment: participation, research exercise, essays, seminar presentation & paper or alternative (subject to class sizes)

This course will cover the Hollywood film industry's history, with reference to key developments in film form. Students will engage with a variety of critical perspectives on the ideological implications of key developments in Hollywood cinema, and will acquire a detailed understanding of the significance of Hollywood as an artistic, industrial and ideological centre. The Hollywood film industry and its products will be considered in an international context, with reference to its influence outside the US, as well as an analysis of how Hollywood has reacted to, or absorbed, influences from other film cultures.

ENGL 2034

Representing Truth and Reconciliation

- 4 units - summer semester
- 36 hours over 3 week period (3-21 February 2005)
- Prerequisite: 6 units level I Humanities/Social Sciences
- Assessment: journal 25%, seminar participation & formal presentation 25%, research essay 50%

This course will involve close analysis of four post-apartheid South African literary texts in the context of the Truth and Reconciliation Commission (TRC) and the TRC Report. It will include some comparative work on the Australian Bringing Them Home Report and related Australian literature. Although our focus will be on official reportage, followed by autobiography and fiction, we will also be watching and discussing some film and video material. Of major interest to the course are the aesthetics and ethics of autobiographical, journalistic and fictional approaches to social inequality and social transformation. Given the creative drive to represent a range of human desires, including those that turn to unspeakable violence, how may we understand the role of art in relation to current notions of truth, justice, gender and race equality, repentance, forgiveness, and shame? We will start the course by comparing and contrasting South African and Australian responses to racial discrimination as reflected in the key official reportage and, after briefly discussing two Australian books about the 'stolen generation', we will then move into analysis of the four South African texts that comprise the main focus of the course.

ENGL 2035

Contemporary Medievalism

- 4 units - semester 2
- Lecture, 2 hour seminar per week
- Prerequisite: 6 units Level I Humanities/Social Sciences
- Assessment: participation 10%, seminar presentation 10% & write-up 10%, annotated bibliography 15%, essay 25%, take-home exam 30%

Why do the Middle Ages feature so prominently in contemporary literature and film? This course will survey some of the major manifestations of this phenomenon: the myth of the Holy Grail (Indiana Jones; Da Vinci Code), the Arthur legend (Monty Python; First Knight; The Mists of Avalon), fairy tale and the Gothic (Harry Potter), medieval outlaws (Robin Hood; Braveheart), 'Middle Earth' and fantasy (Lord of the Rings), Beowulf and other monsters (Beowulf; Buffy), and the medieval detective (Candace Robb novels; The Name of the Rose). Our companions will be some of the sources of these books and films, such as Malory's Morte d'Arthur and Seamus Heaney's translation of Beowulf, which will not only provide 'background', but also serve as instances in their own right of scholarly medievalism. Our goal will be to assess the social, artistic, and political work that 'the Middle Ages' - i.e, the contemporary concept or fantasy of the medieval, not the Middle Ages itself - performs in contemporary society. Students will learn to analyse processes of cultural formation; to engage with theoretical concepts pertaining to literature and film; and to read, view, and write critically and sensitively.

ENGL 2104

Professional English (ESL)

- 4 units - semesters 1 & 2
- Lectures online, 2 hour workshop per week; provision for individual consultations
- Quota may apply
- Prerequisite: 6 units Level I in any discipline
- Professional English (ESL) may not be counted toward a major in English
- Restriction: not available to students who have undertaken SACE Stage 2 English or equivalent; ENGL 2104 English for Professional Purposes (ESL) II; ENGL 2016 English for Professional Purposes II
- Assessment: participation, written assignments, public speaking, exam

Professional English (ESL) is a practical course for students who are still developing fluency in written and spoken English, and who wish to improve their expression in the context of business communications. It is appropriate for students whose first language is not English. Common business documents are studied, as well as grammar, syntax and style. Workshops focus on: business letters; electronic communication; public speaking; job application packages; informative summaries and analysis; academic writing skills; grammar, tone and fluency.

Level III

ENGL 3001

Everyday Life in Australia

- 4 units - semester 2
- Lecture, 2 hour seminar per week
- Prerequisite: 8 units Level II Humanities/Social Sciences
- Restriction: Australian Cultural Studies
- Assessment: essays, presentations, take-home exam

This course analyses contemporary Australian life using theories and methodologies from the area of cultural studies. Students are expected to read widely in cultural studies and to situate their analyses of Australian life within wider debates in cultural studies. The areas of Australian culture examined are popular literary forms, everyday life, television, and film. The course includes an optional overnight trip to the Coorong to learn from Ngarrindjeri people about their traditional and contemporary culture.

ENGL 3004

Australian Colonial Visions

- 6 units - semester 2
- Lecture, 2 hour seminar per week
- Prerequisite: 8 units Level II Humanities/Social Sciences
- Assessment: essays, seminar presentation, participation

The aim of this course is to explore the representation of colonialism in the Australian context. Students will be invited to analyse the ways in which a broad range of texts - explorer journals, settler memoirs, travel narratives, visual art and fiction - reveals the development of and shifts in Australian colonial culture. The course will particularly address such issues as the representation of indigenous people, the gendered nature of the frontier, and the changing features of colonial popular thought.

ENGL 3006
Contemporary Australian Film

- 6 units - semester 1
- Lecture, 2 hour seminar per week
- Prerequisite: 8 units level II Humanities/Social Sciences
- Assessment: participation, seminar paper, essay, exam.

This course examines recent Australian films through a cultural studies framework, introducing students to a range of theoretical approaches to film. The course has a particular focus on the way that contemporary Australian films deal with questions of gender, class, race, sexuality and national identity.

ENGL 3008
Early English Language and Literature

- 6 units - semester 2
- 2 lectures, 1 tutorial per week
- Assessment: tutorial paper on historical or cultural topic of student's choice 20%, language assignment requiring comparison of passage of Old English with passage of later English 20%, assignment of literary type on one of set texts 20%, exam containing passages from set texts for translation & comment 40%

This course looks at the English language in the time of the Anglo-Saxons and the changes it underwent as a result of the Viking invasions in the ninth and tenth centuries, the Norman Conquest in the eleventh, and the eventual loss of their Norman lands by the monarchs of England in the subsequent centuries. It does not assume that students can learn Old and Middle English within the space of one semester, but aims to familiarise them with examples of the literature produced, and with the major changes the language underwent, within the first 800 years after the earliest Anglo-Saxon invasions. Essay and tutorial topics will enable students to pursue historical and cultural, as well as linguistic, interests in the period.

ENGL 3016
English for Professional Purposes

- 6 units - semester 1
- lectures online, 2 hour tutorial
- Prerequisite: 8 units Level II in any discipline
- Restriction: Professional English (ESL), English for Professional Purposes (ESL)
- Assessment: participation, class exercises, essays, assignments, exam

This is a developmental course for students wishing to achieve greater linguistic competence in written expression and/or to enhance fluency and style in the context of professional and business communications. Common business documents are studied, as well as grammar, syntax, the construction of an argument and editing.

ENGL 3018
Renaissance Writing

- 6 units - semester 2
- Lecture, 2 hour seminar per week
- Prerequisite: 8 units Level II Humanities/Social Sciences
- Assessment: essay, exam, class work

This course is a close study of plays, poetry and prose works from the early modern period. The course considers some of the conditions of reading and writing for men and women in the period, and it introduces debates about the importance of early modern ideas for understanding contemporary models of history, nation, difference and identity.

ENGL 3022
World Literature in English

- 6 units - semester 1
- Lecture, 2 hour seminar per week
- Prerequisite: 8 units Level II Humanities/Social Sciences
- Assessment: participation, seminar paper, essays

In this course students will consider a range of new texts that span diverse cultural traditions and are representative of writing that has helped shape a new literary landscape. The main focus of the course will be on the multiplicity of literatures in English with a particular emphasis on writing that asserts difference, both in culture and genre, and demonstrates the interrelatedness of identity, place, history, gender and race in postcolonial writing. Students will have the opportunity to analyse and respond (in presentations and in writing) to works by writers such as Salman Rushdie, Michael Ondaatje, JM Coetzee, Lesley Marmon Silko (North American Indian), Kerri Hulme (NZ), Ben Okri (Nigerian), and others.

ENGL 3025
Telling Tales

- 6 units - semester 1
- Lecture, 2 hour seminar per week
- Prerequisite: 8 units Level II Humanities/Social Sciences
- Assessment: participation, seminar presentation & paper, essays

The aim of this course is to explore the nature of narrative and to look at ways in which narrative informs ideas of selfhood. It will

consider the relationship between consciousness and time and the various ways in which the senses, memory, fantasy and imagination influence narrative and its interpretation. It will draw on psychoanalytic and philosophical theories to consider (gendered) concepts of desire, subjectivity, sexuality, identity, and individuality.

ENGL 3028

The Short Story: Introduction to Creative Writing

- 6 units - semester 2
- Lecture, 2 hour seminar per week
- Prerequisite: 8 units Level II Humanities/Social Sciences
- Assessment: participation exercises, short story, mid-semester in-class exam

This course is designed as an introduction to the craft and culture of short fiction and prose. Students will be introduced to a range of contemporary and some earlier short texts from American, Australian, British, European and other literatures. The course aims, through creative writing and reading, to broaden students' understanding and appreciation of the range of writing in short forms. The short story is particularly appropriate for encouraging comparative analysis between literary cultures and phases of literary development. Students will be encouraged to use short texts as models for their own creative explorations. An anthology of short texts, especially tailored for the course, will be made available to students.

ENGL 3029

Reading and Writing Poetry

- 6 units - semester 1
- 2 lectures, 1 tutorial per week
- Prerequisite: 8 units Level II Humanities/Social Sciences
- Assessment: 6 exercises in writing different kinds of verse in traditional metres 50%, tutorial presentation on poem of student's choice 10%, exam involving scansion & critical appreciation of unseen poems 40%

This course focuses on poetic forms and metres from the sixteenth century to the present. It requires students to familiarise themselves with a wide variety of traditional forms (excluding free verse), to analyse them critically, and to compose verse themselves in a selection of the metres studied. Students will increase their knowledge of traditional forms and genres of English poetry, as well as their skills in scansion and their critical awareness of the relationship between form and meaning in poetry. This is not a creative writing course: its emphasis is on appreciation rather than composition; nevertheless, the discipline of learning to write in tight metrical forms can only be of benefit to those who have aspirations towards writing poetry.

ENGL 3031

Hollywood or Bust!

- 6 units - semester 1
- Lecture, compulsory 2 hour seminar per week
- Prerequisite: 8 units Level II Humanities/Social Sciences
- Assessment: participation, research exercise, essays, seminar presentation & paper or alternative (subject to class sizes)

This course will cover the Hollywood film industry's history, with reference to key developments in film form. Students will engage with a variety of critical perspectives on the ideological implications of key developments in Hollywood cinema, and will acquire a detailed understanding of the significance of Hollywood as an artistic, industrial and ideological centre. The Hollywood film industry and its products will be considered in an international context, with reference to its influence outside the US, as well as an analysis of how Hollywood has reacted to, or absorbed, influences from other film cultures.

ENGL 3034

Representing Truth and Reconciliation

- 6 units - summer semester
- 36 hours over 3 week period (3 - 21 February 2005)
- Prerequisite: 8 units Level II Humanities/Social Sciences
- Assessment: journal 25%, seminar participation and formal presentation 25%, research essay 50%

This course will involve close analysis of four post-apartheid South African literary texts in the context of the Truth and Reconciliation Commission (TRC) and the TRC Report. It will include some comparative work on the Australian Bringing Them Home Report and related Australian literature. Although our focus will be on official reportage, followed by autobiography and fiction, we will also be watching and discussing some film and video material. Of major interest to the course are the aesthetics and ethics of autobiographical, journalistic and fictional approaches to social inequality and social transformation. Given the creative drive to represent a range of human desires, including those that turn to unspeakable violence, how may we understand the role of art in relation to current notions of truth, justice, gender and race equality, repentance, forgiveness, and shame? We will start the course by comparing and contrasting South African and Australian responses to racial discrimination as reflected in the key official reportage and, after briefly discussing two Australian books about the "stolen generation", we will then move into analysis of the four South African texts that comprise the main focus of the course.

ENGL 3035

Contemporary Medievalism

- 6 units - semester 2
- Lecture, two-hour seminar per week
- Prerequisite: 8 units Level II Humanities/Social Sciences
- Assessment: participation 10%, seminar presentation 10% & write-up 10%, annotated bibliography 15%, essay 25%, take-home exam 30%

Why do the Middle Ages feature so prominently in contemporary literature and film? This course will survey some of the major manifestations of this phenomenon: the myth of the Holy Grail (Indiana Jones; Da Vinci Code), the Arthur legend (Monty Python; First Knight; The Mists of Avalon), fairy tale and the Gothic (Harry Potter), medieval outlaws (Robin Hood; Braveheart), 'Middle Earth' and fantasy (Lord of the Rings), Beowulf and other monsters (Beowulf; Buffy), and the medieval detective (Candace Robb novels; The Name of the Rose). Our companions will be some of the sources of these books and films, such as Malory's Morte d'Arthur and Seamus Heaney's translation of Beowulf, which will not only provide 'background', but also serve as instances in their own right of scholarly medievalism. Our goal will be to assess the social, artistic, and political work that 'the Middle Ages' - i.e, the contemporary concept or fantasy of the medieval, not the Middle Ages itself - performs in contemporary society. Students will learn to analyse processes of cultural formation; to engage with theoretical concepts pertaining to literature and film; and to read, view, and write critically and sensitively.

Honours

ENGL 4401

Honours English

- 24 units - full year
- Prerequisite: UG degree & credit average in courses contributing to major in English or equivalent approved by English Honours Sub-Committee.
- Students wishing to take Honours English should consult the Honours Coordinator prior to commencing Level II to ensure that appropriate course choices are made in preparation for Honours.
- Assessment: coursework (2 topics), 15000 word thesis

The work for the Honours year consists of taking a common course (Critical Theory), one other topic, and the writing of a thesis. A list of topics for 2005 will be available from the English Office late in 2004 and students should consult the English Honours Handbook.

In some circumstances Honours English can be studied part-time over two years or can be combined with Honours in another discipline.

ENGL 4402

Honours Creative Writing

- 24 units - full year
- Prerequisite: UG degree & credit average in courses contributing to major in English or equiv. approved by Creative Writing Honours Sub-Committee; presentation of a suitable portfolio of creative writing - see Creative Writing Coordinator for details
- Students wishing to take Honours Creative Writing should consult English and/or Creative Writing Coordinator(s) prior to commencing level II to ensure that appropriate course choices are made in preparation for Honours
- Assessment: coursework (2 topics), major piece of creative writing 15000 words

The Honours year in creative writing allows students to extend skills in creative writing demonstrated in the portfolio which is a pre-requisite for the course. The portfolio may include creative writing developed and presented in undergraduate studies in English. The work for the year consists of two courses: one a creative writing workshop and the other a course that focuses on the reading and analysis of literary texts, exploring the cross-flow between critical and creative writing and reading. In second semester students complete a major piece of creative writing. A Handbook for Creative Writing Honours will be available from the English Office late in 2004.

In some circumstances Honours Creative Writing can be studied part-time over two years.

Environmental Biology

Level I

ENV BIOL 1002

ENV BIOL 1002RW

Environmental Biology I

- 3 units - semester 1
- 3 lectures per week, 3 hours practical/tutorial per fortnight, 3 field trips
- Restriction: not available to B.Sc.students
- Assessment: exam, written assignments

This course is an introduction to the physical and biological resources of Australia with an emphasis on ecological processes and resource management. Topics will draw examples and principals from the freshwater, marine and terrestrial environments. Particular attention will be placed upon resource utilisation, ecosystem services, biodiversity, conservation, agricultural practices as well as the impacts of humans on natural ecosystems. The course places emphasis on generic skills such as report writing and the quantitative assessment of data derived from practical work.

Level II

ENV BIOL 2000
Zoology EB II

- 4 units - semester 2
- 3 lectures per week, 1 practical per week
- Assumed Knowledge: six units of approved Level I Biology courses or permission of Head of Discipline
- Restriction: ENV BIOL 2900A/B Zoology II
- Assessment: practical work, exam

The principles of animal phylogeny followed by an introduction to the diversity and biology of major animal groups. This will include major events in animal evolution as demonstrated by the major phyla and adaptations to parasitism, the marine environment and life on land. The biology of the vertebrates will follow groups from fishes to terrestrial vertebrates and the evolution of mammals. The relationship between structure and function will then be considered. Topics in animal physiology will include energetics and respiration, nervous and sensory systems and muscle function. The course will be rounded off with a review of major trends in animal phylogeny.

ENV BIOL 2001
Evolutionary Biology EB II

- 4 units - semester 1
- 3 lectures per week, 1 practical per week
- Assumed Knowledge: 6 units of approved Level I Biology courses or permission of Head of Discipline
- Restriction: ENV BIOL 2900A/B Zoology II
- Assessment: practical work, seminar presentations, exam

This course addresses key components of evolutionary biology from the perspective of molecular evolution, from the perspective of individual organisms evolving attributes to cope with and exploit spatially and/or temporally variable and different environments, and from a macro-evolutionary perspective. Natural selection, sexual selection, kin selection and inclusive fitness are used to develop an understanding of the behavioural, morphological and physiological adaptations of individual organisms to their environments, as well as an understanding of the interactions and co-evolutionary processes that occur between organisms both intra- and inter-specific (reproductive strategies, mating systems, competition, predator-prey, plant-herbivore, host-parasite, mutualisms, facilitation). Molecular evolution and population genetics provide the mechanics for evolution. Knowledge of these and biogeographic changes are used to develop the ideas of species and speciation, to construct phylogenies, and to interpret the fossil record and patterns of extinction.

ENV BIOL 2003
Ecology EB II

- 4 units - semester 2
- 3 lectures, 1 practical per week, 4-day field camp (first week of mid-semester break)
- Assumed Knowledge: six units of approved Level I Biology courses or permission of Head of Discipline
- Restriction: ENV BIOL 2901A/B Botany II, ENV BIOL 2005 Plant Ecology E
- Assessment: practical/field work, exam

This course aims to teach students the core principles of modern ecology, to provide basic skills for the conduct of field studies, and to foster the development of scientific analysis of ecological systems. The topics are integrated into a conceptual framework that will allow students the analysis of real situations. Topics include the description and study of biological communities, the factors that determine their properties and dynamics, the properties of fragmented systems, the patterns and consequences of species diversity, and the biotic and abiotic factors that control the dynamics of ecological systems. Case studies are used to illustrate the underlying theory, and the application of the ecological theory to the management of natural resources for exploitation and conservation. The course is relevant for students interested in furthering their understanding of the basic ecological principles, in the management of rangelands, fisheries, forests, and human made systems, and in the conservation of natural ecosystems.

ENV BIOL 2005
Plant Ecology E

- 3 units - not offered in 2005
- 30 contact hours - lectures, tutorials; 3-4 day field camp
- Restriction: ENV BIOL 2901A/B Botany II, ENV BIOL 2003 Ecology EBII
- Assessment: assignments and/or exam - further details available at beginning of semester

To appreciate their complexity and understand how plant communities respond to human intervention we have chosen three lecture themes. The first explains communities in terms of individuals, how they have evolved, how they reproduce and what specialisations have occurred. Numerical ecology techniques and the species concept are used to formalise relationships between individuals, biodiversity and community boundaries. The second theme explores relationships between terrestrial plants and their environment, via experimental design and field experiments to assess vegetation scales and responses to soils, disturbance and aridity. The third concentrates on the aquatic environment and relates biology to water quality and management of freshwater systems, in particular nutrient enrichment, pollution and the occurrence of cyanobacteria.

An integral part of the course is the field camp during which the concepts covered in the lectures are illustrated via real plants representative of South Australia's vegetation.

ENV BIOL 2006
Botany II

- 4 units - semester 1
- 3 Lectures, 4 hour practical & tutorial per week
- Assumed knowledge: Biology I: Organisms; Biology I: Molecules Genes and Cells
- Restriction: Agricultural Botany; Botany EBII, Biology of Plants and Animals

This course provides an introduction to the biology of higher plants. The lecture series has a core component that introduces general principles of plant biology relating to structure and function, systematics, floral biology and the physiology of growth and development. These general principles are then explored further in a series of case studies on topics such as plant nutrition, symbioses, responses to biotic and abiotic stress and photosynthesis.

ENV BIOL 2010RW
Population Ecology

- 3 units - not offered in 2005
- 2 lectures, 1 tutorial per week, compulsory 1 week vacation field camp
- Assumed Knowledge: APP ECOL 1003RW Biology of Plants and Animals and APP ECOL 1006RW Plant and Animal Diversity
- Assessment: exam, practicals/assignments

This course aims to provide a theoretical and practical understanding of the ecology of populations. Topics covered include: demographic attributes of populations which illustrate the structure, organisation and dynamic nature of populations (including density, natality, mortality, survivorship, dispersal); the adaptive nature of these attributes in terms of for example, life history strategies; sampling and survey design, models of population growth and regulation; and the nature of interspecific interactions (including predation, competition and mutualisms). Theoretical principles are combined with practical work.

Level III

ENV BIOL 3000
Terrestrial Ecology III

- 3 units - summer semester
- 9 days field work, 2.5 weeks in Environmental Biology during January
- Quota will apply
- Assumed Knowledge: 8 units of Level II courses from Discipline, including either ENV BIOL 2003 Ecology EB II or ENV BIOL 2001 Evolutionary Biology EB II
- Restriction: 8318 Rangelands Ecology, 9222 Terrestrial Plant Ecology; 2179 Ecology of Terrestrial Plants
- Assessment: exam 50%, written reports 50%

The course focuses on terrestrial evolutionary, population and community ecology, covering both theoretical and methodological aspects. Emphasis is placed on ecological strategies, theories of community structure and biodiversity, and biological interactions. The methodological aspect covers field survey techniques, data analysis, and experimental design. The intensive field work focuses on the ecology of arid lands of South Australia, the effect of human introduced disturbances and their effects on the biodiversity of the system, and the sustainability of the use of vegetation as a natural resource. The field work allows in-depth study of one particular system and the practice of several different field methods. The course provides training for students interested in ecology, evolution, rangelands management and environmental sciences.

ENV BIOL 3002
Australian Biota: Past, Present and Future

- 3 units - semester 1
- 2 lectures, 4 hours practical/tutorial work per week
- Assumed Knowledge: 2 EB II courses, one of which must be ENV BIOL 2000 Zoology EB II or ENV BIOL 2002 Botany EB II, or equivalents
- Restriction: 3488 Biodiversity and Evolution of Plants III
- Assessment: practical work, exam, project

This course examines the origins and evolution of Australia's unique flora and fauna, and the way it has been shaped by historical and more contemporary events. Topics will include continental connections and isolation; past climates and geology; past vegetation assemblages and 'ancient' habitats; the unique Tertiary fauna; the Pleistocene megafauna; the Quaternary 'filter' and how it has shaped the present day biota; composition of the present day flora including the impact of poor soils and fire; the dominance of Myrtaceae and Proteaceae, and their pollination systems; origins and unique aspects of the invertebrate and vertebrate faunas; the impact of aboriginal people and the effect of European settlement on the continent's biota. Several major

themes will be explored in detail throughout the course, in particular the evolution of pollination systems; adaptations among plants and animals to arid environments, and the evolution of vertebrate reproductive strategies.

ENV BIOL 3003
Ecophysiology of Animals III

- 3 units - semester 1
- 2 lectures, 1 tutorial, 4 hours practical work a week
- Assumed Knowledge: 8 units of Level II Environmental Biology courses, SACE Stage 2 Chemistry and/or Physics
- Restriction: 5224 Comparative and Environmental Physiology
- Assessment: quizzes, practical work and essay

This course covers the intersection between three biological fields - physiology, ecology and behaviour, and examines some of the ways animals are adapted to the environments in which they live. In many cases, these are adaptations to severe environments such as deserts, polar regions, high altitude and deep sea, where nature poses apparently insurmountable problems to survival. The primary approach is to examine the biophysical exchanges between the animal and its environment. Another approach is to look at the physiology of animals with different life styles, and examine their evolutionary strategies for locomotion, digestion, reproduction, thermoregulation, osmoregulation, circulation and respiration.

ENV BIOL 3004
Freshwater Ecology III

- 3 units - semester 1
- 2 lectures, 5 hours practical work per week, compulsory 3-4 day field camp in first week of mid-semester break - students unable to attend camp should consult course coordinator before enrolment
- Assumed Knowledge: 8 units of Level II Environmental Biology courses (Science students), ENV BIOL 2005 Plant Ecology E, or approval of Head for B.Eng students
- Restriction: 7839 Aquatic Plant Biology, 8896 Freshwater Ecology

This course introduces ideas in freshwater ecology through the work of staff and postgraduate students, with special attention to the ecology of reservoirs, lakes and wetlands and to the ecology of the River Murray and the ways that it has responded to flow regulation. Lectures explore the major freshwater habitats (rivers, reservoirs and wetlands) through studies of plankton, plants, invertebrates and fish and their responses to environmental change. Practical work involves laboratory and field projects in which students participate in the design, execution, analysis and report writing. The field camp provides more intensive experience of investigations under field conditions.

ENV BIOL 3005
Palaeobiology III

- 3 units - summer semester
- Full-time contact for three weeks
- Assumed Knowledge: GEOLOGY 1000A/B Planet Earth or ENV BIOL 1000A/B Biology I
- Restriction: 5043 Palaeontology and Macroevolution III, 5506 Biogeohistory III
- Assessment: written reports

Neoproterozoic and Early Phanerozoic organic evolution - the emergence of metaphytes and metazoans. The place of the Ediacaran assemblage. The Cambrian explosion as a problem of disparity in radiation. Three billion years of evolution and environments. Theories of Neoproterozoic environmental impact on evolution. The evolution of terrestrial floras, evolutionary innovations in clothing the terrestrial environment. The greening of Gondwana. Vertebrate evolution function and evolution in the archosaurs. The Australian Cainozoic radiation. The Australian megafauna and its extinction. Evolution at geological time scales. Mega-evolution and global environmental change. Fossils and the theory of evolution. Palaeoceanographic transformation and environmental forcing of evolution. Punctuations in the record of life, mass extinctions.

ENV BIOL 3006
Research Methods in Environmental Biology III

- 3 units - semester 1
- 2 lectures, 1 tutorial, 4 hours practical work per week
- Assumed Knowledge: 8 units of Level II Environmental Biology courses plus STATS 1000 Statistical Practice I or STATS 1003 Biomathematics and Statistics or equivalent
- Restriction: 1427 Research Methods in Ecology
- Assessment: practical work, exam, review assignment

An introduction to systematic methods of collection, analysis and reporting of field and laboratory data, and basic experimental design. Lectures outline the nature of research and the value of experimental methods. Some knowledge of basic statistics is required. Experimental design will be emphasized, and the elements of statistical tests, particularly analysis of variance, will be considered in a biological context. Practical work involves use of computers and software, and generally will complement methods introduced in lectures.

ENV BIOL 3007
Systematics and Biodiversity

- 3 units - semester 2
- 2 lectures, 4 hours practical/tutorial work per week
- Assumed Knowledge: 8 units of Level II Environmental Biology courses or equivalents

- Restriction: ENV BIOL 3007 Animal Biodiversity and Systematics III, ENV BIOL 3002 Biodiversity and Evolution of Plants, and Evolution, Systematics and Biogeography
- Assessment: practical work, exam, project

This course explores the theory and practice of animal and plant systematics, and its applications in ecology, evolutionary biology, and biodiversity. Topics discussed will include: species concepts; characterising species using morphological, biological, ecological and genetic/cytogenetic criteria; the history of taxonomy and phylogenetics; approaches to the classification of organisms; methods for assessing evolutionary relationships, particularly cladistics; molecular approaches to systematics; constructing the tree of life; measuring biodiversity at different scales; phylogenetic approaches to understanding life history and ecology; importance of fossils for understanding relationships and major evolutionary events; bioinformatics; systematics and biogeography.

ENV BIOL 3008
Ecological Management and Restoration III

- 3 units - semester 2
- 2 lectures, 3 hours practical work per week, 4-5 days fieldwork (during semester or mid semester break)
- Assumed Knowledge: 8 units of Level II Environmental Biology courses or equivalent
- Assessment: exam, project, continuous assessment

This course will examine theoretical and practical aspects of ecological management and restoration of natural systems. The course will focus on terrestrial systems. It will cover the effects of introduced herbivores, carnivores, competitors, pathogens, vegetation clearance, habitat fragmentation, habitat degradation, disturbances (e.g. fire) and remedial actions (e.g. revegetation) on Australian flora, fauna and ecological processes (e.g. dryland salinisation, pollination, gene flow, animal dispersal) with an emphasis on South Australian case histories. Edge effects, corridors, succession, endangered species management; abundant species management; biological and mechanical control of unwanted species; rehabilitation, re-introduction and translocation biology including temporal, spatial and genetic scales to these processes will be covered also. Establishing adequate and effective monitoring programs, use of rapid assessment techniques, application of cost-benefit analysis and social and political factors in decision making will provide a practical element to the course. Students will be expected to conduct a small research project on some current ecological management or restoration issue as part of the course.

ENV BIOL 3009
Ecophysiology of Plants III

- 3 units - semester 2
- 2 lectures, 4 hours practical work per week, 3 day field trip
- Assumed Knowledge: ENV BIOL 2002 Botany EB II, one other Level II Environmental Biology course or equivalent; or PLANT SC 2001WT Agricultural Botany, one other Level II Plant Science or Horticulture, Viticulture & Oenology course
- Restriction: 2778 Ecophysiology of Plants, 7901 Terrestrial Plant Ecophysiology, 1458 Ecophysiology of Terrestrial Plants
- Assessment: exam and continuous assessment

This course explores interactions between plants and their environment from a physiological perspective. It will consolidate and extend knowledge of the processes involved in the acquisition and transport of resources by plants and use this knowledge to examine the ways plants have adapted to a range of environments, some of which can be considered as extreme. The course will also look at how plants respond to environmental challenges such as climate change, ozone depletion, salinisation and heavy metal toxicity. Interactions with other organisms will also be examined including mycorrhizas and parasitism. Practical work will include small group experiments and a field trip in the mid-semester break.

ENV BIOL 3010
Marine Ecology III

- 3 units - semester 2
- 2 lectures, 4 hours practical work per week, 5 day field trip
- Assumed Knowledge: 8 units of Level II Environmental Biology courses or equivalent. ENV BIOL 3006 Research Methods in Environmental Biology III would be advantageous.
- Restriction: 9035 Marine Ecology, 3301 Marine Ecology Theory, 6896 Marine Ecology Practical
- Assessment: exam, assignments, field trip report

This course will provide an understanding of the patterns of abundance and diversity of marine plants and animals and the processes that structure these patterns. Emphasis is placed on the challenges and solutions to understanding the complexity of marine systems. This course will demonstrate the use of coherent logical procedures and rigorous experimental design to provide practical evidence for the development of theory and solutions to environmental and conservation problems in coastal habitats. The habitats and organisms used to illustrate lectures are derived from ecological studies of subtidal rocky and coral reefs, intertidal rocky reefs, mangrove forests, salt marshes, seagrass meadows, urban structures and pelagic habitats.

ENV BIOL 3011WT
Biology and Diversity of Insects

- 3 units - not offered in 2005
- 2 lectures, 4 hours practicals a week
- Assumed Knowledge: ENV BIOL 2000 Zoology EB II or ANIML SC Agricultural Zoology or equivalent.
- Assessment: to be advised

After a brief review covering the internal anatomy of insects and the processes involved in metamorphosis, excretion and reproduction, a number of specific topics will be explored in more detail, including: morphological and biological characteristics of the major insect orders; life histories of selected pest and beneficial species; sociality, caste formation and nest building in termites; sound production methods and functions; feeding mechanisms; adaptations and biology of vertebrate ectoparasites; insects as disease vectors of plants and animals; production and function of silk in insects and arachnids; mimicry and defensive adaptations; sociality and parasitism in the Hymenoptera.

The practical component will examine collecting techniques, identification of adult insects to family level, identification of immature stages and feeding damage. A requirement of the course is the presentation of a well-curated insect collection and attendance at a compulsory field trip during semester.

ENV BIOL 3012WT

Integrated Catchment Management III

- 3 units - semester 2 (mid semester break)
- 24 lectures, 48 practicals in field and laboratory
- Assumed Knowledge: ENV BIOL 2003 Ecology EBII or SOIL&WAT 2005WT Soil Resources or AGRONOMY 2000ARW/BRW Principles of Sustainable Agriculture
- Assessment: theory 50%, practicals/assignments 50%

This course provides students with an understanding of ecological and hydrological processes governing catchment systems and concepts for the assessment and management of catchment systems. Catchments are characterized by their geology, soils, land use, hydrology and water quality. Management of catchments considers changed land use and vegetation, soil treatment, riparian wetlands, water quality management and environmental flows. A multidisciplinary team of lecturers jointly teach the course. Field practicals are conducted in the Bradbury Catchment of the Mt. Lofty Ranges.

ENV BIOL 3013WT

Ecology & Management of Freshwater Systems III

- 3 units - not offered in 2005
- 2 lectures, 4 hours laboratory/field practicals per week
- Assumed Knowledge: ENV BIOL 2003 Ecology EBII or APP ECOL 2010RW Population Ecology

This course provides students with an understanding of ecological processes, food webs and nutrient cycles governing freshwater lakes, wetlands and streams. The course also introduces concepts for the assessment and management of algal blooms, eutrophication, salinity and environmental flows of freshwater systems. Field practicals will be conducted on water quality monitoring and biological surveys of South Australian drinking water reservoirs and the Urrbrae wetland.

ENV BIOL 3015

Ecosystem Modelling for Environmental Management III

- 3 units - summer semester
- Assumed Knowledge: ENV BIOL 2003 Ecology EB II or APP ECOL 2010RW Population Ecology
- Restriction: ENV BIOL 3001 Ecosystem Modelling for Environmental Management
- Assessment: theory 50%, practicals/assignments 50%

This course provides students with an understanding and concepts of systems ecology,ecological modelling and ecoinformatics. On completion of the course students will be able to develop models relevant to terrestrial and aquatic ecosystems, and applicable as tools for explanation and informed decisions. Modelling practicals will be conducted to model complex ecological data by means of user-friendly software for statistical regression, ordinary differential equations, artificial neural networks, evolutionary algorithms, and to apply existing simulation models for lakes, wetlands, fisheries, forests and agro-ecosystems.

ENV BIOL 3023

Conservation Biology

- 3 units - semester 1
- 2 lectures, 4 hours practical per week
- Assumed Knowledge: ENV BIOL 2003 Ecology EBII, STATS 1002RW Data Management & Interpretation or equivalent
- Assessment: exam, practicals/assignments

This course deals with key biological characteristics of native plant and animal species which influence their survival in increasingly disturbed and fragmented habitats. Topics include reproduction and renewal, conservation genetics, plant and animal interactions, habitat management, endangered species management, population viability analysis, reserve design in theory and practice, use of corridors, impacts of fragmentation. The politics, legislation and economics of conservation issues like endangered species and regional biodiversity management planning are explored.

Honours

ENV BIOL 4000

Honours Environmental Biology

- 24 units - full year
- Prerequisite: credit standard in 9 units of Level III courses offered by Environmental Biology or related disciplines and agreement from supervisor appropriate for research project
- Assessment: research thesis and seminar 55%, literature review and research proposal 20%, two essays 25%

Candidates are expected to study Environmental Biology more deeply in a research exercise and to present the results in a written thesis. In addition to the thesis, students will be assigned

essays and a research proposal, all designed to broaden the learning experience relevant to environmental science. There will be emphasis on developing written and oral communication skills that are expected of an environmental scientist.

Interested students should consult the Honours Coordinator during the final year of the degree program. The Honours program normally commences at the beginning of first or second semester.

ENV BIOL 4001

Honours Bachelor of Environmental Science (Environmental Biology)

- 12 units - full year
- Prerequisite: credit or higher in at least two Level III courses approved by the Head of Discipline
- Assessment: project 60%, average of coursework result 40%

Honours Environmental Science (Environmental Biology) students extend their study of Environmental Biology by embarking on a research project that is mutually agreed upon with an appropriate supervisor. The results of this study are presented as a written thesis, incorporating a literature review and a seminar. During the year, students also enrol in 12 units of Level III courses relevant to Environmental Science.

Interested student should consult the Honours Coordinator during the final year of the degree program. The Honours program normally commences at the beginning of the first or second semester.

ENV BIOL 4002

Honours Botany and Geology

- 24 units - full year
- Assessment: thesis, exams, seminar

The course allows students who have completed at least 6 units of both Botany and Geology at a credit standard or better to undertake an honours project unique to their skills. Students undertake a major research project in Botany and undertake minor components (eg coursework, minor projects, essays) in Geology and Geophysics. The program may be particularly relevant to students interested in palaeobotany, plant/mineral interactions or minesite reclamation/rehabilitation.

Intending candidates should consult the Head of Discipline and potential supervisors during the final year of the degree and be prepared to begin studies in early February or August.

ENV BIOL 4003

Honours Rangeland Science and Management S

- 24 units - full year
- Prerequisite: satisfactory (usually credit) standard in appropriate Level III courses (9 units) including 2179 Terrestrial Ecology III or special permission of program coordinators

Candidates are expected to acquire a more detailed knowledge of rangeland science and management than is required for the Ordinary degree. Candidates are expected to study deeply in one branch of rangelands science and management. Candidates are required to carry out research in this field and to present the results in a written thesis. Approximately two-fifths of the total program is flexible and candidates choose, with approval, between additional project work, essays, and course work.

Candidates should consult a Coordinator of the program and potential supervisors during the final year of the degree. The Honours program commences at the beginning of February or at the beginning of semester 2.

ENV BIOL 4010

Honours Environmental Biology (B.Nat Res Mgt)

- 24 units - full year
- Prerequisite: credit standard in 9 units of Level III courses offered by Environmental Biology o related disciplines and an agreement from a supervisor appropriate for research project
- Assessment: research thesis and seminar 55%, literature review and research proposal 20%, 2 essays 25%

Candidates are expected to study Environmental Biology more deeply in a research exercise and to present the results in a written thesis. In addition to the thesis, students will be assigned essays and a research proposal, all designed to broaden the learning experience relevant to environmental science. There will be emphasis on developing written and oral communication skills that are expected of an environmental scientist.

Interested students should consult the Honours Coordinator during the final year of the degree program. The Honours program normally commences at the beginning of first or second semester.

Environmental Studies

Level I

ENVT 1110

Sustaining Australia: The Environmental Challenge

- 3 units - semester 1
- 2 lectures, 2 hour workshop per week, 2 half-day field trips
- Restriction: ENVT 1110 Sustainable Cities and Liveable Neighbourhoods
- Assessment: workshop participation 15%, workshop & field exercises 65%, essay 20%, total approx. 4500 words

This course examines the new approaches to environmental policy-making, planning and management being adopted by government and community groups to solve the increasingly complex environmental problems threatening the sustainability of Australian

society. While the impacts of many of these environmental problems are most obvious in rural and remote areas, their sources can often be traced to Australian cities. Urban environmental problems also directly impact the lives of the majority of Australians who live in cities. The course begins by outlining the impacts of European colonisation and urbanisation on the Aboriginal communities and pre-settlement environments of Australia. Then the course considers the environmental problems resulting from urbanisation. Specific topics include: environmental justice and community participation; the ecological footprint of a city; urban resource use (transportation, energy, water) and waste production (storm water, garbage and air pollution); the greening of Australian cities through biodiversity restoration projects; urban futures (ecovillages and liveable neighbourhood design). The course uses practical exercises and fieldwork to illustrate ideas and information presented in the lectures and assigned reading and to assist students to develop research and communication skills, especially skills in information collection, in written and oral presentation of information, in discussion of ideas and in collaborative work.

Level II

ENVT 2005

Environmentalism: Principles and Practice

- 4 units - semester 1
- 2 lectures, 1 tutorial per week
- Prerequisite: 6 units Level I Humanities/Social Sciences
- Restriction: History and Philosophy of Environmentalism, Environmental Ethics and Action
- Assessment: tutorial participation 10%, tutorial presentations/ exercises 30%, essays/reports 60%, total approx. 6000 words

The aim of this course is to introduce and critically evaluate the scientific, political and social sets of ideas called environmentalism. Modern environmentalism forcefully emerged in western societies in the late 1960s. Apart from forming the premises upon which environmental studies is based, it has also informed a variety of environmental movements across the globe, both in the west, and now in the less affluent parts of the world. This course reviews the diversity of these ideas and dominant responses of societies towards them: from resisting environmentalism; to proposing reform (such as sustainable development); and then, eventually to the development of more fundamental philosophies of change, such as social and deep ecology, as well as environmental justice. The course will also compare environmental movements in different parts of the world, from their ideology, to their actions. Although the course is global in nature, a feature of this course will be the practical and local investigation of these ideas and actions.

ENVT 2008

Environmental Policy in Australia

- 4 units - semester 2
- 2 hour lectures, 1 tutorial per week
- Prerequisite: 6 units Level I Humanities/Social Sciences
- Restriction: Environmental Politics
- Assessment: tutorial participation 10%, tutorial presentations/ exercises 30%, essays/reports 60%, total approx. 6000 words

Environmental Policy in Australia is divided into three parts. Part One provides basic theoretical tools used for policy analysis, and investigates the specific developments in Australian environmental policy over the past thirty years. During this time frame, environmental policy-making can be divided into three distinct periods: i) unrestrained use; ii) sustainable and multiple use; and iii) `wise' and sequential use. For each period we investigate the dominant political ideology of the state towards the environment; analyse the use of particular policy-making models; and examine environmental responses and strategies. There are many hands-on examples explored which help bring the theory to life. Part Two investigates, analyses and differentiates between the environmental policy processes of interest/pressure groups and associations, institutions (including the parliament and the cabinet), different levels of government (local, state, federal); bureaucracies (both local and global) and corporations. Part Three is based on a practical policy workshop, orientated towards group work. This workshop is designed to produce environmental policy for actual community purposes.

ENVT 2009

Introduction to Environmental Impact Assessment

- 4 units - semester 1
- 2 lectures, 1 tutorial per week, plus fieldwork
- Prerequisite: 6 units Level I Humanities/Social Sciences/Science
- Assessment: seminar participation and presentations 25%, essays/reports 75%, total approx. 6000 words

This course introduces the methodology of environmental impact assessment (EIA) and examines the development and practice of EIA overseas. The course then focuses on EIA in Australia and, in particular, draws on case studies of EIA from around Australia with a focus on South Australia. Different levels of EIA are examined alongside key stages in the EIA process such as screening, scoping, EIA document preparation, public involvement, review and assessment, monitoring and auditing, appeal rights and decision-making. A number of major projects with environmental impact statements (EISs) are critically examined together with the EIA process in South Australia. This includes discussion of recent changes to legislation.

ENVT 2010

Tourism Development and Sustainability

- 4 units - semester 2
- 2 lectures, 2 hour workshop per week, plus fieldwork
- Prerequisite: 6 units Level I Humanities/Social Sciences
- Assessment: workshop exercises 40%, field exercises 40%, essay 20%, total approx. 6000 words

This course is focused on ecotourism in the Asia-Pacific region, with particular emphasis on Australia and South Australia. The term `ecotourism' refers to sustainable forms of nature/culture-based tourism. This course provides an understanding of the principles of ecotourism (as sustainable nature/culture-based tourism) and practical experience in applying these principles to the management of ecotourism projects. To achieve these objectives the course will: examine current and forecasted trends in the tourism industry, particularly in the context of South Australia, but also with reference to Australia and the wider Asia-Pacific region; provide an understanding of the economics of the tourism industry and its social and ecological impacts, both positive and negative; outline the key elements of ecotourism, where ecotourism involves a sustainable approach to the management of nature/culture-based tourism projects; examine ecotourism codes and guidelines for tourists, tourism operators and destinations; review the methodology of tourism impact assessment, tourism visitor management, community participation in tourism projects, ecotourism accreditation and ecotourism site and activity design; demonstrate the development of ecotourism strategies for regions and destinations.

Level III

ENVT 3005

Environmentalism: Principles and Practice

- 6 units - semester 1
- 2 lectures, 1 tutorial per week
- Prerequisite: 8 units Level II Humanities/Social Sciences
- Restriction: History and Philosophy of Environmentalism, Environmental Ethics and Action
- Assessment: tutorial participation 10%, tutorial presentations/ exercises 30%, essays/reports 60%, total approx. 9000 words

The aim of this course is to introduce and critically evaluate the scientific, political and social sets of ideas called environmentalism. Modern environmentalism forcefully emerged in western societies in the late 1960s. Apart from forming the premises upon which environmental studies is based, it has also informed a variety of environmental movements across the globe, both in the west, and now in the less affluent parts of the world. This course reviews the diversity of these ideas and dominant responses of societies towards them: from resisting environmentalism; to proposing reform (such as sustainable development); and then, eventually to the development of more fundamental philosophies of change, such as social and deep ecology, as well as environmental justice. The course will also compare environmental movements in different parts of the world, from their ideology, to their actions. Although the course is global in nature, a feature of this course will be the practical and local investigation of these ideas and actions.

ENVT 3008

Environmental Policy in Australia

- 6 units - semester 2
- 2 hour lectures, 1 tutorial per week
- Prerequisite: 8 units Level II Humanities/Social Sciences
- Restriction: Environmental Politics
- Assessment: tutorial participation 10%, tutorial presentations/ exercises 30%, essays/reports 60%; total approx. 9000 words

Environmental Policy in Australia is divided into three parts. Part One provides basic theoretical tools used for policy analysis, and investigates the specific developments in Australian environmental policy over the past thirty years. During this time frame, environmental policy-making can be divided into three distinct periods: i) unrestrained use; ii) sustainable and multiple use; and iii) `wise' and sequential use. For each period we investigate the dominant political ideology of the state towards the environment; analyse the use of particular policy-making models; and examine environmental responses and strategies. There are many hands-on examples explored which help bring the theory to life. Part Two investigates, analyses and differentiates between the environmental policy processes of interest/pressure groups and associations, institutions (including the parliament and the cabinet), different levels of government (local, state, federal); bureaucracies (both local and global) and corporations. Part Three is based on a practical policy workshop, orientated towards group work. This workshop is designed to produce environmental policy for actual community purposes.

ENVT 3009

Introduction to Environmental Impact Assessment

- 6 units - semester 1
- 2 lectures, 1 tutorial per week, plus fieldwork
- Prerequisite: 8 units Level II Humanities/Social Sciences/Science
- Assessment: seminar participation and presentations 25%, essays/reports 75%, total approx. 9 000 words

This course introduces the methodology of environmental impact assessment (EIA) and examines the development and practice of EIA overseas. The course then focuses on EIA in Australia and, in particular, draws on case studies of EIA from around Australia with a focus on South Australia. Different levels of EIA are examined alongside key stages in the EIA process such as screening, scoping, EIA document preparation, public involvement, review and assessment, monitoring and auditing, appeal rights and decision-

making. A number of major projects with environmental impact statements (EISs) are critically examined together with the EIA process in South Australia. This includes discussion of recent changes to the legislation.

ENVT 3010

Tourism Development and Sustainability

- 6 units - semester 2
- 2 lectures, 2 hour workshop per week, plus fieldwork
- Prerequisite: 8 units Level II Humanities/Social Sciences/Science
- Assessment: workshop exercises 40%, field exercises 40%, essay 20%, total approx. 9000 words

This course is focused on ecotourism in the Asia-Pacific region, with particular emphasis on Australia and South Australia. The term `ecotourism' refers to sustainable forms of nature/culture-based tourism. This course provides an understanding of the principles of ecotourism (as sustainable nature/culture-based tourism) and practical experience in applying these principles to the management of ecotourism projects. To achieve these objectives the course will: examine current and forecasted trends in the tourism industry, particularly in the context of South Australia, but also with reference to Australia and the wider Asia-Pacific region; provide an understanding of the economics of the tourism industry and its social and ecological impacts, both positive and negative; outline the key elements of ecotourism, where ecotourism involves a sustainable approach to the management of nature/culture-based tourism projects; examine ecotourism codes and guidelines for tourists, tourism operators and destinations; review the methodology of tourism impact assessment, tourism visitor management, community participation in tourism projects, ecotourism accreditation and ecotourism site and activity design; demonstrate the development of ecotourism strategies for regions and destinations.

ENVT 3015

Environmental Studies Internship

- 6 units - semester 1
- 3 hour seminar per week (except during main work experience)
- Eligibility: B.Environmental Studies students only
- Quota will apply
- Prerequisite: Environmental Ethics & Action/History, Philosophy of Environmentalism, at least two other Level II Environmental Studies courses at acceptable standard - (students not eligible for, or who choose not to take this course may take another Level III Environmental Studies course))
- Restriction: ENVT 3015 Environmental Studies: Working in the Field
- Assessment: seminar participation and presentation 20%, 6000 word project report 80%

This course allows students to spend up to two days per week during the semester working as an intern with a community, business/industry or government agency engaged in environmental policy, planning and management activities, or with an individual or group engaged in environmental research. During their internships students will be assigned specific projects by their 'sponsors' and will prepare reports on the methodology and results of their projects. The course coordinator will assist students to identify suitable sponsors and projects and will monitor student progress in weekly seminars. Students are expected to choose their sponsors and projects in consultation with the course coordinator before the beginning of the semester, as admission to the course will depend on approval of the sponsor and project by the course coordinator.

Honours

ENVT 4401

Honours Environmental Studies

- 24 units - full year
- Prerequisite: UG degree, credit average in courses contributing to a major in Environmental Studies or equiv. approved by Head of Discipline
- Students wishing to take Honours Environmental Studies should consult Honours Coordinator prior to commencing Level II to ensure appropriate course choices are made in preparation for Honours
- Assessment: 15000-20000 word dissertation, essays/project work for each elective topic totalling 7000-9000 words per topic

The course consists of two parts - the first, equivalent to 50% of the course, is a compulsory workshop on research methodology leading to submission of a dissertation. The second part consists of two coursework topics, each equivalent to 25% of the course each studied during a single-semester of lecture/seminars and tutorials/ practicals. Details of the Honours coursework topics available each year are given in the Environmental Studies Honours Handbook.

In some circumstances Honours Environmental Studies can be studied part-time over two years or can be combined with Honours in another discipline.

European Studies

Level I

EUST 1000

Modern Imagination in Europe

- 3 units - semester 1
- 1 lecture, 2 hour seminar per week
- Available for Non-Award study
- Assessment: 1 x 2 000, 1 x 2500 word) essays 70%; participation based on class contribution & presentation 30%

This course introduces students to the expression of the modern condition in major nineteenth and twentieth-century works of European prose, poetry, and the visual arts. Each of the works/artistic movements is representative, in both its form and content, of the modern predicament. We will explore such themes as realism, nihilism, absurdism, the boredom and alienation of urban life, fascism, the Holocaust, existentialism and new modes of representation. In the visual arts, we will be looking at French impressionism, German expressionism, cubism and abstractionism. We will be reading Camus' The Outsider, Sartre's Nausea, Flaubert's Madame Bovary, Kafka's The Trial and Louis Ferdinand Céline's Journey to the End of the Night. In poetry, we will be studying Baudelaire's Flowers of Evil, a selection of Surrealist poems (Breton, Desnos), and Holocaust poems by Paul Celan, Nelly Sachs and Gertrud Kolmar.

Level II

EUST 2003

European Philosophy: The Death of God

- 4 units - semester 1
- 3 hour seminar per week
- Prerequisite: 6 units Level I Humanities/Social Sciences
- Assessment: 2 x 3000 word essays 80%, seminar participation 20%

This course introduces students to the modern European philosophical tradition from Baruch Spinoza to Friedrich Nietzsche and explores the major metaphysical and existential problem that runs through that tradition. That problem was formulated by Friedrich Nietzsche as the 'death of God': the stringent demands for scientific certitude lead to the conclusion that there is neither an objective purpose to human existence nor an objective set of moral guidelines. This is the condition of nihilism. We will examine why so many philosophers in the modern European tradition reached this conclusion and how they responded to it. We will look at the impact of modern science on seventeenth-, eighteenth- and nineteenth-century European philosophy such as the application of scientific techniques to the study of the Bible (Bayle, Spinoza and Reimarus), and the attack upon rationalist metaphysics by Immanuel Kant and the anthropological readings of Christianity in the neo-Hegelians. We will examine the attempts to find some meaning in the light of the crisis that European philosophers feel emerges with the 'death of God'. We will look at how Kant tries to ground morality, how Hegel attributes purposefulness to history, and Nietzsche's ideas of the superman and the eternal return.

EUST 2005

Great Ideas of Western Civilisation

- 4 units - semester 2
- 1 lecture, 2 hour seminar per week
- Prerequisite: 6 units Level I Humanities/Social Sciences
- Assessment: 2 x 3000 word essays 80%, seminar participation 20%

This course focuses upon the great innovations and reference units in religion, politics, philosophy, the arts and science in the Western Tradition. We will be studying some of the most powerful, beautiful, exciting and dangerous books that have ever been written. The ideas to be discussed in this course (and the writers we will focus upon) are: philosophy versus poetry (Plato and Homer); 'God' (the Bible, Plato and Aristotle); Rome and early Christendom (Cicero, St. Paul and St. Augustine); scholasticism and mysticism (St. Thomas Aquinas, Meister Eckhart and Hildegard of Bingen); learning, freedom and faith (Erasmus and Luther); the scientific revolution (Galileo, Bacon, Descartes and Newton); the evolution of liberalism and commercial society (Locke, Montesquieu, Rousseau); the tribunal of reason (Voltaire and Kant); romanticism and music (Wagner); communism, evolution and the superman (Marx, Darwin and Nietzsche); psychoanalysis and feminism (Freud and de Beauvoir).

EUST 2011

Opera as Idea and Ideal

- 4 units - semester 2
- 2 lectures, 1 seminar per week
- Prerequisite: 6 units Level I Music/Humanities/Social Sciences
- Assessment: 1000 word seminar discussion paper 20%, 1500 word journal 30%, 2500 word research essay 50%

Since the moment of its inception in 16th century Italy, opera has been one of the most fiercely contested sites of European culture. Its texts and its music, its stars and its extravagance, its perceived power to subvert morals or undermine the political status quo, all have been the subject of bitter controversy at different times in its 400 year existence. Within the historical framework of the development of opera in the German-speaking countries from the time of Mozart, this course investigates key aspects of its social and cultural impact, its role in reflecting and constructing national and gender identities and its ability to seduce its audience with a sense of higher ideals beyond the immediate world of physical reality.

Composers whose works will be discussed in more detail include Mozart, Beethoven, Weber, Wagner, Strauss, Berg and Weill and for comparative purposes reference will also be made to developments in other European countries in the same period. Lectures will be in English, translations will be provided for all German texts and no previous knowledge of music is assumed.

EUST 2012

Power: Love and Evil

- 4 units - semester 2
- 3 hour seminar per week
- Prerequisite: 6 units Level I Humanities/Social Sciences
- Assessment: seminar participation (including personal dossier & group presentation - may include creative project, eg, original song, poem, video or short piece of creative writing) 35%, 3000 word major essay 40%, 1500 word tutorial paper 25%

The dominant trend in social theory is to explore the dynamics of power and social relationships in terms of social structures and variables of identity such as class, race, gender and ethnicity. In this course we will be taking a different path. We will approach social relationships and power through reflecting on the passions and the two most intense modes of power, the existential and the cosmological. In recognition of the severe methodological constraints which the languages of social theory and philosophy place upon our understanding of the passions, we will draw upon images and experiences expressed in religion, literature, film and popular music as well as philosophy and social theory. We will be considering material as diverse as the Bible, Plato's Symposium, writings of the Marquis de Sade and the novelist Josephine Hart, the philosophers Spinoza, Nietzsche, Kierkegaard and Rosenstock-Huessy, the films Seven, Dangerous Liaisons and Damage and personal testimonies of Brian Keenan, Rian Malan, Dietrich Bonhoeffer and Helmuth von Moltke.

Level III

EUST 3003

European Philosophy: The Death of God

- 6 units - semester 1
- 3 hour seminar per week
- Prerequisite: 8 units Level II Humanities/Social Sciences
- Assessment: 2 x 4500 word essays 80%, seminar participation 20%

This course introduces students to the modern European philosophical tradition from Baruch Spinoza to Friedrich Nietzsche and explores the major metaphysical and existential problem that runs through that tradition. That problem was formulated by Friedrich Nietzsche as the 'death of God': the stringent demands for scientific certitude lead to the conclusion that there is neither an objective purpose to human existence nor an objective set of moral guidelines. This is the condition of nihilism. We will examine why so many philosophers in the modern European tradition reached this conclusion and how they responded to it. We will look at the impact of modern science on seventeenth-, eighteenth- and nineteenth-century European philosophy such as the application of scientific techniques to the study of the Bible (Bayle, Spinoza and Reimarus), and the attack upon rationalist metaphysics by Immanuel Kant and the anthropological readings of Christianity in the neo-Hegelians. We will examine the attempts to find some meaning in the light of the crisis that European philosophers feel emerges with the 'death of God'. We will look at how Kant tries to ground morality, how Hegel attributes purposefulness to history, and Nietzsche's ideas of the superman and the eternal return.

EUST 3005

Great Ideas of Western Civilisation

- 6 units - semester 2
- 1 lecture, 2 hour seminar per week
- Prerequisite: 8 units Level II Humanities/Social Sciences
- Assessment: seminar participation 20%, 2 x 4500 word essays 80%

Great Ideas of Western Civilisation focuses upon the great innovations and reference units in religion, politics, philosophy, the arts and science in the Western Tradition. We will be studying some of the most powerful, beautiful, exciting and dangerous books that have ever been written. The ideas to be discussed in this course (and the writers we will focus upon) are: philosophy versus poetry (Plato and Homer); 'God' (the Bible, Plato and Aristotle); Rome and early Christendom (Cicero, Virgil, St. Paul and St. Augustine); scholasticism and mysticism (St. Thomas Aquinas, Meister Eckhart and Hildegard of Bingen); learning, freedom and faith (Erasmus and Luther); the scientific revolution (Galileo, Bacon, Descartes and Newton); the evolution of liberalism and commercial society (Locke, Montesquieu, Rousseau); the tribunal of reason (Voltaire and Kant); romanticism and music (Wagner); communism, evolution and the superman (Marx, Darwin and Nietzsche); and psychoanalysis and feminism (Freud and de Beauvoir).

EUST 3011

Opera as Idea and Ideal

- 6 units - semester 2
- 2 lectures, 1 seminar per week
- Prerequisite: 8 units Level II Music/Humanities/Social Sciences
- Assessment: 1500 word seminar discussion paper 20%, 2500 word journal 30%, 4000 word research essay 50%

Since the moment of its inception in 16th century Italy, opera has been one of the most fiercely contested sites of European culture. Its texts and its music, its stars and its extravagance, its perceived power to subvert morals or undermine the political status quo, all have been the subject of bitter controversy at different times in its 400 year existence. Within the historical framework of the development of opera in the German-speaking countries from the time of Mozart, this course investigates key aspects of its social and cultural impact, its role in reflecting and constructing national and gender identities and its ability to seduce its audience with a sense of higher ideals beyond the immediate world of physical reality. Composers whose works will be discussed in more detail include Mozart, Beethoven, Weber, Wagner, Strauss, Berg and

Weill and for comparative purposes reference will also be made to developments in other European countries in the same period. Lectures will be in English, translations will be provided for all German texts and no previous knowledge of music is assumed.

EUST 3012

Power: Love and Evil

- 6 units - semester 2
- 3 hour seminar per week
- Prerequisite: 8 units Level II Humanities/Social Sciences
- Assessment: seminar participation (incl. personal dossier and group presentation - may include a creative project, eg, original song, poem, video or short piece of creative writing) 35%, 4500 word major essay 40%, 3000 word tutorial paper 25%

The dominant trend in social theory is to explore the dynamics of power of power and social relationships in terms of social structures and variables of identity such as class, race, gender and ethnicity. In this course we will be taking a different path. We will approach social relationships and power through reflecting on the passions and the two most intense modes of power, the existential and the cosmological. In recognition of the severe methodological constraints which the languages of social theory and philosophy place upon our understanding of the passions, we will draw upon images and experiences expressed in religion, literature, film and popular music as well as philosophy and social theory. We will be considering material as diverse as the Bible, Plato's Symposium, writings of the Marquis de Sade and the novelist Josephine Hart, the philosophers Spinoza, Nietzsche, Kierkegaard and Rosenstock-Huessy, the films Seven, Dangerous Liaisons and Damage and personal testimonies of Brian Keenan, Rian Malan, Dietrich Bonhoeffer and Helmuth von Moltke.

Honours

EUST 4401

Honours European Studies

- 24 units - full year
- Prerequisite: major sequence in European Studies with Level III credit standard, at least one full year of a European language
- Assessment: 2 x 7000 word seminar papers 25% each and thesis (approx. 15000 words) 50%

A thesis topic would normally be drawn from the central themes explored in European Studies at undergraduate level and would be supervised by a staff member teaching in an area of European Studies. Students also do two seminars in the area of European Studies.

Food Technology and Management

Level I

FOODT&M 1000RG

Introduction to Food Technology

- 3 units - semester 2
- Assessment: written exam 50%, two laboratory reports 15%, two assignments 20%, report of industry visits 15%

This course overviews the food processing industry at local national and international levels. Emphasis is at the local (South Australian level and covers many of the key areas of responsibility of a food technologist. A nationally accredited short course - Hygiene for Food Handlers – is included. Food processing techniques, particularly techniques for analysing and preserving food and processing meat, cereals, milk, fruit and vegetables are described. Management operations including total quality management, plant hygiene and sanitation, occupational health, safety and welfare, HACCP, ISO, and legislation are overviewed. The course includes industry tours and guest lectures by industry representatives.

Level II

FOODT&M 2001RG

Food Engineering Principles

- 2 units - semester 1
- 2 lectures, 3 hours practical/tutorial per week
- assumed knowledge CHEM ENG 1001 Engineering Physics

Continuous and batch processing. Equipment and facility design. Advanced separation techniques. Automation and process control. Bio-reactors: sterilization and maintenance of microbial monocultures and oligocultures. Food processing facilities will be visited to illustrate the application of engineering principles.

FOODT&M 2002WT

Nutrition II

- 4 units - semester 2
- 2 lectures, 1 hour tutorial, 4 hours practical per week
- Assumed knowledge: PLANT SC 2002WT Chemistry of Biopolymers

The role of fats, carbohydrates, dietary fibre, vitamins, minerals, alcohol and water in human nutrition is studied and current trends analysed. Students will have the opportunity to examine their own diet using computerised food composition tables, dietary assessment methods and Australian RDI's. Functional foods are considered and students will prepare a presentation on a food that they have modified to include a functional ingredient.

FOODT&M 2003RG

Food Microbiology II

- 4 units - semester 2
- 2 lectures, 4 hours practical per week
- Assumed Knowledge: APP ECOL 2003WT General Microbiology
- Assessment: to be advised

This course aims to provide instruction in the general principles of food microbiology. It is assumed that students will have received adequate introduction to microbiology per se. The course covers the biology and epidemiology of foodborne microorganisms of public health significance, including bacteria, yeasts, fungi, protozoa and viruses, and food spoilage microorganisms; the microbiology of food preservation and food commodities; fermented and microbial foods; principles and methods for the microbiological examination of foods; microbiological quality control, and quality schemes.

Level III

FOODT&M 3003RG

Food Preservation and Packaging

- 3 units - semester 1
- 2 lectures, four hour practical per week
- Assumed Knowledge: FOODT&M 2001RG Food Engineering Principles

Advanced food preservation and packaging: heat and cold preservation including chilling, freezing, freezing systems, retorting, pasteurization, sterilization and heating processes. Preservation by fermentation, concentration, drying and dehydration, by chemical agents and ionizing radiation. Shelf life and nutritional consequences of preservation. Principles of flexible and rigid packaging of foods. Selection of packaging and packaging permeability. Passive and active packaging including modified atmosphere packaging and controlled atmosphere storage. Reuse, disposability and printing of packaging. Labelling techniques and legislation.

FOODT&M 3011RG

Food Chemistry

- 3 units - semester 1
- 2 lectures, four hour practical per week
- Assumed Knowledge: (insert correct code) Biological Chemistry

The chemistry and analysis of food and its components: water, amino acids, peptides and protein, sugars, polysaccharides, lipids, vitamins, minerals. Reactions of food components during processing: Maillard reaction, enzymic browning. Non-microbial contaminants such as heavy metals and pesticides, colour pigments, aroma compounds, sugar and fat replacers.

FOODT&M 3014RG

Food Quality and Regulation

- 3 units - semester 2
- 2 lectures, four hours of practicals per week
- Assumed Knowledge: FOODT&M 3003RG Food Preservation and Packaging

The principles of quality assurance, management and total quality management, HACCP (hazard analysis of critical control points) system implementation, flow charts and identification of hazards and critical points, ISO and NATA accreditation. Hygiene and sanitation, including good manufacturing practices, chemistry and application of cleaners and sanitizers, verification of sanitiser action, equipment design to minimize process failure and health risk. Product recall and national and international food legislation including role of ANZFA, Food Standards Code, legislation hierarchy and audit.

FOODT&M 3020AWT

Research Project A
(Food Technology and Management)

- 6 units - semester 1
- Assessment: thesis, a supervisor mark, final presentation

A research project on a food related topic.

FOODT&M 3020BWT

Research Project B
(Food Technology and Management)

- 6 units - semester 2
- Assessment: thesis, a supervisor mark, final presentation

A research project on a food related topic.

FOODT&M 3021RG

Food Product Development

- 3 units- semester 1
- 2 lectures, 4 hours practicals per week
- Assumed Knowledge: FOODT&M 3003RG Food Preservation and Packaging

Product Development: Scale of new product development in market place, concept generation, consumer testing, quality function deployment. R&D process. Trends and new techniques in processing, for example extrusion, sous vide, high pressure, electrical and magnetic fields, light pulses, minimal processing, home meal replacements, hurdle technology. Food ingredients and their functions.

FOODT&M 3025RG

Animal Food Processing

- 3 units - semester 2
- Odd years only
- 2 lectures, four hour practical per week

Assumed Knowledge: FOODT&M 2003WT Food Microbiology II

Red meat processing: Animal slaughter. Factors affecting meat quality. Meat microbiology. Chemistry and physiological structure of meat. Manufactured meat products including non-meat ingredients. Dairy processing: composition of milk. Hazards associated with raw milk. Microbiology of milk. Milk products and processing techniques including membrane technologies. Fish and seafood processing: classification of edible seafoods. Harvesting, storage and processing techniques. Seafood microbiology. Sensory evaluation. Fish and seafood products. Poultry and egg processing: animal slaughter and processing. Poultry microbiology. Handling and storage. Egg structure and composition. Assessment of egg quality. Poultry and egg microbiology. Egg products. HACCP programs and Food Regulations. Students will produce a variety of foods that contain animal tissue and extracts.

FOODT&M 3026RG

Plant Food Processing

- 3 units - semester 2
- even years only
- 2 lectures, four hour practical per week
- Assumed Knowledge: FOODT&M 2003WT Food Microbiology II

Fruit and vegetables: definition, structure, ripening and composition of fruit and vegetables. Harvesting and storage techniques. Microbiological, chemical and physical causes of spoilage. Processing techniques. Fruit and vegetable products. Edible fats and oils: sources, chemical composition and reactivity. "Plasticised" fats. Processing techniques, storage and handling. Confectionary and sugar technology: sugars and sweeteners. Products and manufacturing techniques. Beverages: Variety of beverages. Raw material selection. Manufacturing techniques. Testing procedures. Cereal and baking technology: variety, structure and composition of cereal grains. Production techniques. Functions of leavening agents, gluten and other ingredients of bread, cakes and pastry. Product development. HACCP programs and Food Regulation. Students will produce a variety of foods that contain plant tissue and extracts.

FOODT&M 3027WT

Sensory Evaluation of Foods

- 3 units - semester 1
- 2 lectures, 1 practical per week
- Assessment: to be advised

The role of sensory evaluation in marketing of food and beverages, physiological and psychological factors affecting sensory perception, relationships between sensory properties and product acceptability, measurement of sensory perception, design and conduct of sensory evaluation experiments, difference testing, preference testing, panel selection procedures, taste and aroma profiling, texture profiling, shelf life determination, sensory quality control, product development and optimisation, strategies for developing sensory evaluation programs. A range of food and beverage products will be assessed using the techniques and principles present in the lecture program.

French Studies

Level I

FREN 1002

French IA: Beginners' French Part 1

- 3 units - semester 1
- 4 hours language classes, 1 hour language laboratory each week
- Available for Non-Award study
- Restriction: not available to students who have obtained more than 14/20 in SACE Stage 2 French (or equiv.)
- Assessment: regular assignments, tests, exam

This course introduces students to the language and culture of contemporary France. In addition to intensive language training in the four basic skills - listening, speaking, reading and writing - various aspects of French society and culture will be introduced through audio and video extracts and short texts. The emphasis throughout will be on communicative skills, both oral and written.

FREN 1003

French IA: Beginners' French Part 2

- 3 units - semester 2
- 4 hours of language classes; 1 hour reading class
- Available for Non-Award study
- Prerequisite: FREN 1002 French IA: Beginners' French Part 1
- Assessment: regular assignments, tests, written exam

This course continues the intensive language training undertaken in French IA Part 1 with the addition of a weekly class devoted to the development of reading and analytical skills.

FREN 1011

French I: Language and Culture Part 1

- 3 units - semester 1
- 2 lectures (cultural studies & grammar), 2 hours tutorials (oral/language laboratory & written expression) per week
- Available for Non-Award study
- Prerequisite: SACE Stage 2 French with scaled score of higher than 14/20 (or equiv.)
- Assessment: regular tests, language assignments, essays, language exam

This course constitutes the advanced first-year stream which consolidates the language skills of those with prior knowledge of French and develops reading and research skills in the area of cultural studies. Students will acquire knowledge of current issues in French society, as well as develop critical and analytic skills to apply to their reading and analysis of different kinds of texts.

FREN 1012

French I: Language and Culture Part 2

- 3 units - semester 2
- 2 lectures (cultural studies & grammar), 2 hours tutorials (written expression & cultural studies incl. oral expression) per week
- Available for Non-Award study
- Prerequisite: FREN 1011 French I: Language and Culture Part 1 or equivalent
- Assessment: regular tests, language assignments, essays, language exam

This course continues the intensive language training undertaken in Part 1 and introduces other aspects of French and Francophone culture and society. Students have a choice of two cultural studies options: Le roman policier or The Francophone World.

Level II

FREN 2002

French IIA: Language and Culture Part 1

- 4 units - semester 1
- 2 lectures (grammar & cultural studies), 3 tutorials (2 hours language, 1 hour language laboratory) per week
- Prerequisite: FREN 1003 French IA Part 2 (Pass Div 1) or FREN 1012 French I Part 2 (Pass Div 2)
- Assessment: regular written assignments, oral exercises, written class tests, essays, oral exam, language exam

This course builds on and consolidates the language skills acquired in French IA. In addition to the study of the language, students will acquire knowledge of French culture and develop critical and analytic skills through the study of various texts and resources.

FREN 2003

French IIA: Language and Culture Part 2

- 4 units - semester 2
- 2 lectures (grammar & cultural studies), 3 tutorials (1 hour cultural studies, 1 hour language, 1 hour language laboratory) per week
- Prerequisite: FREN 2002 French IIA: Language and Culture Part 1
- Assessment: regular written assignments, oral exercises, written class tests, essays, oral exam, language exam

This course continues the intensive language training undertaken in Part 1 and introduces other aspects of French and Francophone culture and society. Students have a choice of two cultural studies options in common with French I: Le roman policier or The Francophone World.

FREN 2007

French Studies II

- 4 units - semester 1 & 2
- There are two topic choices this course

Culture

- Lecture, tutorial each week
- Prerequisite: FREN 1012 French I: Language and Culture Part 2 (Pass Div 1) or FREN 2003 French IIA Part 2
- Assessment: tutorial papers, essays

The Culture topic involves an individual research project (topic to be negotiated with the course coordinator) and a cultural studies option. In semester 1 the option will be either Mediaeval France or Short Stories of the 19th Century; and in semester 2 students choose from either The Theatre and Fictions of Beckett or another option to be announced.

Language

- 5 hours per week
- Prerequisite: semester 1 - 6 units Level I Humanities/Social Sciences, semester 2 - French Studies II: Language
- Restriction: not available to students who have studied French at any level
- Assessment: regular assignments, tests, exam 60%, 1500 word essay in English on French culture 40%

This course also offers the opportunity for students in second year to be introduced to French language and culture at a more intensive level than at first year. It is particularly appropriate for prospective postgraduates needing reading skills in French and/or students wishing to do an Honours degree in the areas of European Studies and General Linguistics who are not majoring in a European language but who need to develop reading ability in the French language for research purposes. The research essay component of the course enables students to choose a topic in line with their own research interests. Students will be required to read selected French texts, although they will write their essay in English.

FREN 2011

French II: Language and Culture Part 1

- 4 units - semester 1
- 2 lectures (cultural studies & language), 2 tutorials (cultural studies & language) per week
- Prerequisite: FREN 1012 French I: Language and Culture Part 2 (Pass Div 1)
- Assessment: regular oral & written exercises, class tests, end of semester paper for language, tutorial papers, essays, tests for cultural studies course

Language training in the speaking and writing of French builds on the skills and knowledge acquired in first year. The language programme will include grammar exercises, written expression, grammar commentary and translation. The cultural studies course is based on a wide range of texts: one option to be chosen (either Mediaeval France or Short Stories of the 19th Century).

FREN 2012

French II: Language and Culture Part 2

- 4 units - semester 2
- 2 lectures (cultural studies & language), 2 tutorials (cultural studies & language) per week
- Prerequisite: FREN 2011 French II: Language and Culture Part 1 or equiv.
- Assessment: regular oral & written exercises, class tests, end of year 3 hour exam, oral interview for language, tutorial papers, essays, tests for cultural studies course

Language training in the speaking and writing of French builds on the skills and knowledge acquired in first semester. The language programme will include grammar exercises, written expression, grammar commentary and translation. The cultural studies course is based on a wide range of texts: one option to be chosen (either The Theatre and Fictions of Beckett, Adelaide High School Mentoring Scheme or another option to be announced).

FREN 2021

French in France II

- 4 units - summer semester
- Prerequisite: 6 units Level I French
- Assessment: oral expose on one of cultural studies topics & presented at the Alliance Francaise de Rouen (end of 4th week) 40%, 2000 word essay on history, literature or culture of Normandy (due after return to Adelaide and before commencement of semester 1) 60%

The course comprises two components which are run concurrently: a) An intensive language course undertaken at the Alliance Frangaise in Rouen over a period of four weeks. Students will undertake 4 hours of instruction per day in a totally French-speaking environment in small groups; b) A cultural/historical programme organised in cooperation with the Alliance Francaise de Rouen and the Universite de Haute Normandie. This program will involve a series of lectures devoted to the culture, the literature and the history of the Normandy region. As a follow-up to these lectures, a number of guided tours and field trips to sites of cultural and historical significance will also be organised. Topics to be covered include: the art and architecture of Rouen (its famous cathedral, the Museum of Fine Arts with its collection of Norman Impressionist paintings); mediaeval Norman art and architecture (the streets of Rouen, the Bayeux tapestry, Bayeux cathedral, the Mont Saint-Michel); World War II and the Allied invasion (Omaha Beach, the Musee du Debarquement at Arromanches); travel and exploration (Nicolas Baudin); and the great writers of Normandy (Flaubert, Maupassant). For further details, contact the French Discipline.

Level III

FREN 3002

French IIIA: Language and Culture Part 1

- 6 units - semester 1
- 2 lectures (language and cultural studies), 2 tutorials (language and cultural studies) per week
- Prerequisite: FREN 2003 French IIA: Language and Culture Part 2
- Assessment: oral & written exercises, class tests, end of semester paper for language; tutorial papers, essays, tests for cultural studies course

Language training in the speaking and writing of French builds on the skills and knowledge acquired in second year. The language programme will include grammar exercises, written expression, grammar commentary and translation. The cultural studies course is based on a wide range of texts: one option to be chosen (either Mediaeval France or Short Stories of the 19th Century).

FREN 3003

French IIIA: Language and Culture Part 2

- 6 units - semester 2
- 2 lectures (language & cultural studies), 2 tutorials (language & cultural studies) per week
- Prerequisite: FREN 3002 French IIIA: Language and Culture Part 1
- Assessment: oral & written exercises, class tests, end of year 3 hour exam, oral interview for language, tutorial papers, essays, tests for the cultural studies course

Language training in the speaking and writing of French builds on the skills and knowledge acquired in semester 1. The language program will include grammar exercises, written expression, grammar commentary and translation. The cultural studies course is based on a wide range of texts: one option to be chosen (either The Theatre and Fictions of Beckett, Adelaide High School Mentoring Scheme or another option to be announced).

FREN 3007

French Studies III

- 6 units - semester 1 & 2
- There are two topic choices in this course

Culture

- Lecture, tutorial each week
- Prerequisite: consult course coordinator
- Assessment: tutorial papers, essays

The Culture topic involves an individual research project (topic to be negotiated with the course coordinator) and a cultural studies option. In semester 1 the option will be either Mediaeval France or Short Stories of the 19th Century; and in semester 2 students choose from either The Theatre and Fictions of Beckett or another option to be announced.

Language

- 5 hours per week
- Prerequisite: semester 1 - 8 units Level II Humanities/Social Sciences, semester 2 - French Studies III: Language
- Restriction: not available to students who have studied French at any level
- Assessment: regular assignments, tests, exam 60%, 3000 word essay in English on French culture 40%

This course also offers the opportunity for students in third year to be introduced to French language and culture at a more intensive level than at first or second year. It is particularly appropriate for prospective postgraduates needing reading skills in French and/or students wishing to do an Honours degree in the areas of European Studies and General Linguistics who are not majoring in a European language but who need to develop reading ability in the French language for research purposes. The research essay component of the course enables students to choose a topic in line with their own research interests. Students will be required to read selected French texts, although they will write their essay in English.

FREN 3011

French III: Language and Culture Part 1

- 6 units - semester 1
- 2 lectures (cultural studies and language), 2 tutorials (cultural studies and language) per week
- Prerequisite: FREN 2012 French II: Language and Culture Part 2
- Assessment: oral & written exercises, class tests, end of semester paper for language, tutorial papers, essays, tests for cultural studies course

This course comprises two strands - language acquisition and cultural studies - which have in common an emphasis on the acquisition of research skills. The language strand gives tuition in stylistics, advanced grammar and syntax, through regular assignments and class exercises (oral and written). The cultural studies strand involves choosing one cultural studies option (either Mediaeval France or Short Stories of the 19th Century.).

FREN 3012

French III: Language and Culture Part 2

- 6 units - semester 2
- 2 lectures (cultural studies and language), 2 tutorials (cultural studies and language) per week
- Prerequisite: FREN 3011 French III: Language and Culture Part 1
- Assessment: oral & written exercises, class tests, end of year 3 hour exam, oral interview for language, tutorial papers, essays, tests for the cultural studies course

This course comprises two strands - language acquisition and cultural studies - which have in common an emphasis on the acquisition of research skills. The language strand gives tuition in stylistics, advanced grammar and syntax, through regular assignments and class exercises (oral and written). The cultural studies strand involves choosing one cultural studies option (either The Theatre and Fictions of Beckett, Adelaide High School Mentoring Scheme or another option to be announced).

FREN 3021

French in France III

- 6 units - summer semester
- Prerequisite: 8 units Level II French
- Assessment: oral expose on one of the cultural studies topics and presented at the Alliance Francaise de Rouen (end of 4th week) 40%, 3000 word essay on history, literature or culture of Normandy (due after return to Adelaide and before commencement of semester 1)60%

The course comprises two components which are run concurrently: a) An intensive language course undertaken at the Alliance Francaise in Rouen over a period of four weeks. Students will undertake 4 hours of instruction per day in a totally French-speaking environment in small groups; b) A cultural/historical programme organised in cooperation with the Alliance Francaise de Rouen and the Universite de Haute Normandie. This programme will involve a series of lectures devoted to the culture, the literature and the history of the Normandy region. As a follow-up to these lectures, a number of guided tours and field trips to sites of cultural and historical significance will also be organised. Topics to be covered include: the art and architecture of Rouen (its famous cathedral, the Museum of Fine Arts with its collection of Norman Impressionist paintings); mediaeval Norman art and architecture (the streets of Rouen, the Bayeux tapestry, Bayeux cathedral, the Mont Saint-Michel); World War II and the Allied invasion (Omaha Beach, the Musie du Dibarquement at Arromanches); travel and exploration (Nicolas Baudin); and the great writers of Normandy (Flaubert, Maupassant). For further details, contact the French Discipline.

FREN 3103WT

Technical French (Oenology)

- 3 units - semester 2
- 4 hours per week
- Eligibility: B.Science (Oenology) students only
- Assessment: assignments, exams

This is a beginners intensive French course, with an application to students of oenology. The language component referred to as Basic French language and wine culture will be taught using a textbook in conjunction with a basic introduction to the language of wine culture in France, the emphasis being on pronunciation, simple conversation and comprehension. The Wine specialist French programme will focus on the language of wine production in France and Australia, looking at such topics as wine growing areas, grape varieties and characteristics, soils and climates, wine industry. Students are welcome to suggest areas of interest and documents they wish to study.

Honours

FREN 4401

Honours French Studies

- 24 unit - full year
- Prerequisite: BA degree, credit average in courses contributing to major in French Studies or equiv. approved by Head of Discipline.
- Assessment: continuous assessment in language program 25%, cultural studies 25%, thesis and oral interview 50%

The content of Honours French Studies is as follows : Language - two hours per week in semesters 1 and 2 focussing on literary translations and advanced written and oral skills ; Cultural Studies - two hours per week in semester 1 on a cultural topic (to be negotiated with the Honours coordinator) ; 12,000 word thesis in French and an oral interview on the thesis topic. Students enrolling in French Honours from French IIIA may choose to write a 15,000 word thesis in English.

In some circumstances Honours in French Studies can be studied part-time over two years or can be combined with Honours in another discipline.

Gender Studies

Level I

GEND 1003

Gender, Work and Society

- 3 units - semester 2
- 2 hour lecture, 1 tutorial per week
- Available for Non-Award study
- Assessment: essays, other written work; total approx. 4500 words

This course explores how work in Australia and in all countries is gendered, how the specific experiences of women and men are different and are shaped by the changing nature of work and of gender. It aims to equip students with a set of analytical tools and perspectives to enable them to understand their own experience of work, its treatment in public life and the various approaches that exist in understanding and interpreting it, and of gender itself.

GEND 1013

Introduction to Gender Studies

- 3 units - semester 1
- 2 hour lecture, 1 tutorial per week - format will vary to include combinations of 2 hour lecture (including video screenings), 90 minute workshops, site visits
- Available for Non-Award study
- Assessment: written work totaling 4500 words

The course examines contemporary gender relations in Australian society, in the school, the workplace, and the home. To what extent can we explain these relations in terms of women's and men's choices and to what extent in terms of masculinities and femininities, laws and institutions and the distribution of power and resources in Australian society? In a brief overview of the history of the women's and men's movements in Australia, we ask who has been excluded and who included by feminist activists, for example Aboriginal people, migrants, young men and women?

Level II

GEND 2007

Life Stories: Australia 1850-1980

- 4 units - semester 1
- 3 hours per week
- Prerequisite: 6 units Level I Humanities/Social Sciences
- Assessment: major & minor essays, reports, oral presentations totalling up to 6000 words

This course draws on biographical and autobiographical writing between 1850 and 1980 in order to explore the lives of Australian men, women and children in their social context. Key concerns will

be masculinity, femininity, class and ethnicity. The course is structured into six units where each explores a particular tradition of life writing and analyses the life story of a particular individual or group as a window onto the socio-cultural history of a specific decade. We will examine the conventions of secular hagiography detailing the work of constitutional and political figures of the 1890s. Exploring the traditions of social history, we will consider lives potentially lost to history in the 1930s and 1950s and examine life-writing as a political strategy in the 1970s and 1980s.

GEND 2014

Risk and Moral Panic in Australian Society

- 4 units - semester 1
- 2 hour lecture, 1 tutorial per week
- Prerequisite: 6 units Level I Humanities/Social Sciences
- Assessment: research exercises 30%, essay 20%, research project 30%, preparation & participation in lectures & tutorials 20%

The concept of risk and risk minimisation currently pervade public discussions of a wide range of social issues. The concept of risk both to individuals, and to broader society, typically underpin 'moral panics' about a wide range of social issues and personal practices. The course will explore, as case studies, several current debates in Australia such as those surrounding: HIV/AIDS, terrorism, the crisis in masculinity, assisted reproduction, the application of gene technology, infertility, border protection, the falling birth rate, and relationship violence. The course will introduce key sociological and feminist approaches to the analysis of these public issues, in particular students will investigate the ways in which gender, sexuality, religion, ethnicity and class are mobilised within these morally charged discourses. The course provides the opportunity to learn and apply social research methods and offers a degree of student choice in the topic of the research assignment.

GEND 2015

Screening Australian Social Issues

- 4 units - semester 2
- 3 hour seminar each week
- Prerequisite: 6 units Level I Humanities/Social Sciences
- Assessment: seminar participation, critical literature review & final essay

Rather than being a film theory course, this course analyses films as social texts, as mechanisms by which narratives of difference and inequality are told. The vectors of discrimination and difference to be studied will be chosen from class (working life experiences; millionaires versus the homeless), race, ethnicity, region (rural versus CBD dwellers), sexualities (gay and straight), humans and other animals, people with and without disabilities, people in different generations.

Why are films better at exploring some of these vectors of inequality compared with others? To what extent can films popularise social science understandings of the world?

Level III

GEND 3007

Life Stories: Australia 1850-1980

- 6 units - semester 1
- 3 hours per week
- Prerequisite: 8 units Level II Humanities/Social Sciences
- Assessment: major & minor essays, reports, oral presentations totalling up to 8000 words

This course draws on biographical and autobiographical writing between 1850 and 1980 in order to explore the lives of Australian men, women and children in their social context. Key concerns will be masculinity, femininity, class, race and ethnicity. The course is structured into six units where each explores a particular tradition of life writing and analyses the life story of a particular individual or group as a window onto the socio-cultural history of a specific decade. We will examine the conventions of secular hagiography detailing the work of constitutional and political figures of the 1890s. Exploring the traditions of social history, we will consider lives potentially lost to history in the 1930s and 1950s and examine life-writing as a political strategy in the 1970s and 1980s.

GEND 3014

Risk and Moral Panic in Australian Society

- 6 units - semester 1
- 2 hour lecture, 1 tutorial per week
- Prerequisite: 8 units Level II Humanities/Social Sciences
- Assessment: research exercises 30%, essay 20%, research project 30%, preparation & participation in lectures & tutorials 20%

The concept of risk and risk minimisation currently pervade public discussions of a wide range of social issues. The concept of risk both to individuals, and to broader society, typically underpin 'moral panics' about a wide range of social issues and personal practices. The course will explore, as case studies, several current debates in Australia such as those surrounding: HIV/AIDS, terrorism, the crisis in masculinity, assisted reproduction, the application of gene technology, infertility, border protection, the falling birth rate, and relationship violence. The course will introduce key Sociological and Feminist approaches to the analysis of these public issues, in particular students will investigate the ways in which gender, sexuality, religion, ethnicity and class are mobilised within these morally charged discourses. The course provides the opportunity to learn and apply social research methods and offers a degree of student choice in the topic of the research assignment.

GEND 3015

Screening Australian Social Issues

- 6 units - semester 2
- 3 hour seminar each week
- Prerequisite: 8 units Level II Humanities/Social Sciences
- Assessment: seminar participation, critical literature review, final essay

Rather than being a film theory course, this course analyses films as social texts, as mechanisms by which narratives of difference and inequality are told. The vectors of discrimination and difference to be studied will be chosen from class (working life experiences; millionaires versus the homeless), race, ethnicity, region (rural versus CBD dwellers), sexualities (gay and straight), humans and other animals, people with and without disabilities, people in different generations.

Why are films better at exploring some of these vectors of inequality compared with others? To what extent can films popularise social science understandings of the world?

Honours

GEND 4401

Honours Gender Studies

- 24 units - full year
- Prerequisite:UG degree, minimum credit average in courses contributing to Gender Studies major or equiv. approved by Discipline
- Students wishing to take Honours Gender Studies should consult the Honours Coordinator prior to commencing Level III to ensure appropriate course choices are made in preparation for Honours
- Assessment: coursework (2 topics each 25% with written work of approx.7500-9000 words), 15000-20000 word thesis 50%

The Gender Studies Honours program consists of a core theory/ research course titled 'Critique and Construct in Gender Studies', one elective course and an Honours thesis of 15000-20000 words. A list of Honours electives to be offered is available from the Honours Coordinator. We encourage students who are eligible for Honours in more than one discipline to consider a joint Honours program with the approval of the respective Honours Coordinators.

In some circumstances Honours Gender Studies can be studied part-time over two years.

General Practice

Level II

GEN PRAC 2000HO

Indigenous Health II

- 3 units - semester 1 or 2
- 3 hour session per week
- Eligibility: MBBS students only
- Assessment: oral presentation 10%, written tutorial assignment 30%, final essay assignment 50%

This course aims to introduce students to an analysis of Indigenous health that draws on inter-disciplinary theoretical frameworks from the social sciences and humanities, including reference to frameworks developed by Indigenous social scientists, writers and artists. Students will explore historical, social and cultural contexts and their application to an analysis of particular Indigenous health problems. The will also gain an understanding of issues connected to identity and cultural diversity as they relate to developments in the relationship between the health professional and the indigenous subject. Furthermore, students will complete the elective with an increased understanding of some of the underlying historical, social and cultural issues, and their relationship to health and wellbeing as defined by Indigenous people.

GEN PRAC 2001HO

Indigenous Health IIHS

- 4 units - semester 1 or 2
- 3 hour session per week
- Eligibility: B.Hlth.Sc. students only
- Assessment: oral presentation 10%, written tutorial assignment 30%, final essay assignment 50%

This course aims to introduce students to an analysis of Indigenous health that draws on inter-disciplinary theoretical frameworks from the social sciences and humanities, including reference to frameworks developed by Indigenous social scientists, writers and artists. Students will explore historical, social and cultural contexts and their application to an analysis of particular Indigenous health problems. The will also gain an understanding of issues connected to identity and cultural diversity as they relate to developments in the relationship between the health professional and the indigenous subject. Furthermore, students will complete the elective with an increased understanding of some of the underlying historical, social and cultural issues, and their relationship to health and wellbeing as defined by Indigenous people.

Honours

GEN PRAC 4000HO

Honours General Practice

- 24 units - full year
- Eligibility: available to B.Med.Sc. students. appropriately qualified B.Hlth.Sc. students, or with permission of Head of Department
- Assessment: to be advised at start of year

Students requiring further information concerning syllabuses and work required for the Honours degree of Bachelor of Medical Science are advised to consult the Head of the appropriate department as early as possible.

Genetics

Level II

GENETICS 2100

Genetics IIA: Foundation of Genetics

- 4 units - semester 1
- 3 lectures, 1 tutorial, 1 practical per week
- Available for Non-Award study
- Prerequisite: one of BIOLOGY 1101 Biology I: Molecules, Genes and Cells A or BIOLOGY 1102 Biology I: Molecules, Genes and Cells B and one of BIOLOGY 1201 Biology I: Human Perspectives or BIOLOGY 1102 Biology I: Organisms
- Restriction: GENETICS 2102 Genetics IIA (Molecular Biology), GENETICS 2106 Genetics IIA (Biomedical Science)
- Assessment: exam, tutorial & practical component assessment

This course aims to provide a broad understanding of some of the foundation concepts of genetics. We begin with examining different patterns of inheritance and the nature of linkage and genetic recombination, move onto discussing the nature of mutations, their use in analysis of biological processes, and the connections between genotype and phenotype. The semester concludes by focussing on human genetics, including the Human Genome Project, disease gene cloning, and DNA-based diagnosis.

The practical component for this course draws from the MBS Prac A, Prac B and Prac C series. Refer to Current Students Online Enrolment information at www.sciences.adelaide.edu.au for information on enrolling in these practicals.

GENETICS 2102

Genetics IIA (Molecular Biology)

- 3 units - semester 1
- 3 lectures, 1 tutorial per week
- Eligibility: for B.Sc (Molecular Biology) students only
- Prerequisite: one of BIOLOGY 1101 Biology I: Molecules, Genes and Cells A or BIOLOGY 1102 Biology I: Molecules, Genes and Cells B and one of BIOLOGY 1201 Biology I: Human Perspectives or BIOLOGY 1102 Biology I: Organisms
- Restriction: GENETICS 2100 Genetics IIA: Foundation of Genetics
- Assessment: exam, tutorial assessment

This course aims to provide a broad understanding of some of the foundation concepts of genetics. We begin with examining different patterns of inheritance and the nature of linkage and genetic recombination, move onto discussing the nature of mutations, their use in analysis of biological processes, and the connections between genotype and phenotype. The semester concludes by focussing on human genetics, including the Human Genome Project, disease gene cloning, and DNA-based diagnosis. This course is equivalent to the lecture and tutorial component GENETICS 2100 Genetics IIA: Foundation of Genetics.

GENETICS 2106

Genetics IIA (Biomedical Science)

- 4 units - semester 1
- 3 lectures, 1 tutorial, 1 practical per week
- Eligibility: B.Sc (Biomedical Science) students only
- Prerequisite: one of BIOLOGY 1101 Biology I: Molecules, Genes and Cells A or BIOLOGY 1102 Biology I: Molecules, Genes and Cells B and one of BIOLOGY 1201 Biology I: Human Perspectives or BIOLOGY 1102 Biology I: Organisms
- Restriction: GENETICS 2100 Genetics IIA: Foundation of Genetics
- Assessment: exam, tutorial & practical component

This course aims to provide a broad understanding of some of the foundation concepts of genetics, with a specialised emphasis on human genetics. We begin with examining different patterns of inheritance and the nature of linkage and genetic recombination, move onto discussing the nature of mutations, their use in analysis of biological processes, and the connections between genotype and phenotype. The semester concludes by using a case-study approach to focus on human genetics, including disease gene cloning, and DNA-based diagnosis .

The practical component for this course draws from the MBS Prac A, Prac B and Prac C series. Refer to Current Students Online Enrolment information at www.sciences.adelaide.edu.au for information on enrolling in these practicals.

GENETICS 2200

Genetics IIB: Function and Diversity of Genomes

- 4 units - semester 2
- 3 lectures, 1 tutorial, 1 practical per week
- Available for Non-Award study
- Prerequisite: one of BIOLOGY 1101 Biology I: Molecules, Genes and Cells A or BIOLOGY 1102 Biology I: Molecules, Genes and

Cells B and one of BIOLOGY 1201 Biology I: Human Perspectives or BIOLOGY 1102 Biology I: Organisms

- Assumed Knowledge: GENETICS 2100 Genetics IIA: Foundation of Genetics
- Restriction: GENETICS 2202 Genetics IIB (Molecular Biology), GENETICS 2206 Genetics IIB (Biomedical Science)
- Assessment: exam, tutorial & practical component

This course aims to provide an appreciation of the power of genetic analysis, building on the concepts developed in GENETICS 2100. Topics include the regulation of gene expression, inheritance of extranuclear genomes, cancer as a genetic disease, and genetic control of embryo development. The course concludes with an overview of molecular evolution and the genetics of populations.

The practical component for this course draws from the MBS Prac A, Prac B and Prac C series. Refer to Current Students Online Enrolment information at www.sciences.adelaide.edu.au for information on enrolling in these practicals.

GENETICS 2202

Genetics IIB (Molecular Biology)

- 3 units - semester 2
- 3 lectures, 1 tutorial per week
- Eligibility: B.Sc (Molecular Biology) students only
- Prerequisite: one of BIOLOGY 1101 Biology I: Molecules, Genes and Cells A or BIOLOGY 1102 Biology I: Molecules, Genes and Cells B and one of BIOLOGY 1201 Biology I: Human Perspectives or BIOLOGY 1102 Biology I: Organisms
- Assumed Knowledge: GENETICS 2200 Genetics IIA (Molecular Biology)
- Restriction: GENETICS 2200 Genetics IIB: Function and Diversity of Genomes
- Assessment: exam, tutorial assessment

This course aims to provide an appreciation of the power of genetic analysis, building on the concepts developed in GENETICS 2102. Topics include the regulation of gene expression, inheritance of extranuclear genomes, cancer as a genetic disease, and genetic control of embryo development. The course concludes with an overview of molecular evolution and the genetics of populations. This course is equivalent to the lecture and tutorial component GENETICS 2200 Genetics IIB: Function and Diversity of Genomes.

GENETICS 2206

Genetics IIB (Biomedical Science)

- 4 units - semester 2
- 3 lectures, 1 tutorial, 1 practical per week
- Eligibility: B.Sc.(Biomedical Science) students only
- Prerequisite: one of BIOLOGY 1101 Biology I: Molecules, Genes and Cells A or BIOLOGY 1102 Biology I: Molecules, Genes and Cells B and one of BIOLOGY 1201 Biology I: Human Perspectives or BIOLOGY 1102 Biology I: Organisms
- Assumed Knowledge: GENETICS 2106 Genetics IIA (Biomedical Science)
- Restriction: GENETICS 2200 Genetics IIB: Function and Diversity of Genomes
- Assessment: exam, tutorial & practical component

This course aims to provide an appreciation of the power of genetic analysis, building on the concepts developed in GENETICS 2100/2106. Topics include the regulation of gene expression, inheritance of extranuclear genomes, cancer as a genetic disease, and genetic control of embryo development. The course concludes with an overview of molecular evolution and the genetics of populations. The practical component of this course consists of discussion topics with researchers in human genetics, advanced analysis of genetic linkage as applied in human genetics, and contact with research laboratories.

Level III

GENETICS 3000

Molecular Genetics: Genomes and Gene Expression

- 6 units - semester 1
- 6 lectures, 1 tutorial, 3 four-hour practicals per fortnight
- Available for Non-Award study
- Prerequisite: GENETICS 2100 Genetics IIA: Foundation of Genetics and GENETICS 2200 Genetics IIB: Function and Diversity of Genomes, or GENETICS 2102 Genetics IIA (Molecular Biology) and GENETICS 2202 Genetics IIB (Molecular Biology), or GENETICS 2106 Genetics IIA (Biomedical Science) and GENETICS 2206 Genetics IIB (Biomedical Science)
- Restriction: GENETICS 3002 Molecular Genetics III (Molecular Biology)
- Assessment: exam, practical component, written reports

The DNA that comprises the genetic material is collectively referred to as the genome. In this course, the organisation and expression of the genome is explored using molecular genetic analysis. Topics include - structure and function of genomes and chromosomes; genomics; genome evolution; interactions between nuclear, mitochondrial and chloroplast genomes; mechanisms for the generation and maintenance of diversity in diploid genomes; regulation of gene expression; chromosome structure and gene expression; epigenetic mechanisms; the cell cycle and cell proliferation.

GENETICS 3002

Molecular Genetics III (Molecular Biology)

- 4 units - semester 1
- 6 lectures, 1 tutorial per fortnight
- Eligibility: B.Sc (Molecular Biology) students only
- Prerequisite: GENETICS 2100 Genetics IIA: Foundation of Genetics and GENETICS 2200 Genetics IIB: Function and Diversity of Genomes, or GENETICS 2102 Genetics IIA (Molecular Biology) and GENETICS 2202 Genetics IIB (Molecular Biology)
- Restriction: GENETICS 3000 Molecular Genetics: Genomes and Gene Expression
- Assessment: exam

The DNA that comprises the genetic material is collectively referred to as the genome. In this course, the organisation and expression of the genome is explored using molecular genetic analysis. Topics include: structure and function of genomes and chromosomes; genomics; genome evolution; interactions between nuclear, mitochondrial and chloroplast genomes; mechanisms for the generation and maintenance of diversity in diploid genomes; regulation of gene expression; chromosome structure and gene expression; epigenetic mechanisms; the cell cycle and cell proliferation. This course consists of the lecture and tutorial components of GENETICS 3000 Molecular Genetics: Genomes and Gene Expression.

GENETICS 3005

Developmental and Medical Genetics (Biomed.)

- 6 units - semester 2
- 6 lectures, 1 tutorial, 3 x 4 hour practicals per fortnight
- Eligibility: B.Hlth Sc. and B.Sc.(Biomed.) students only
- Prerequisite: 2100 Genetics IIA: Foundation of Genetics and GENETICS 2200 Genetics IIB: Function and Diversity of Genomes, or GENETICS 2106 Genetics IIA (Biomedical Science) and GENETICS 2206 Genetics IIB (Biomedical Science)
- Assumed Knowledge: GENETICS 3000 Molecular Genetics: Genomes and Gene Expression
- Restriction: GENETICS 3006 Human, Developmental and Evolutionary Genetics;
- Assessment: exam, practical component, written reports

This advanced course examines the dynamic nature of genomes revealed by the study of human genetics, developmental genetics and evolutionary genetics. Topics include the human genome, human genome diversity, human genetic disease, genetic basis of cancer, neurogenetics, gene therapy, genetic control of animal development, genes and animal behaviour. The course includes specialist topics in clinical genetics, including prenatal diagnosis, genetic counselling and ethical issues in clinical genetics. Subject to availability, the practical component of this course is a placement with a genetics laboratory. Students who are unsuccessful in securing a laboratory placement will undertake alternative practical activities.

GENETICS 3006

Human, Developmental and Evolutionary Genetics

- 6 units - semester 2
- 6 lectures, 1 tutorial, 3 x 4 hour practicals per fortnight
- Available for Non-Award study
- Prerequisite: GENETICS 2100 Genetics IIA: Foundation of Genetics and GENETICS 2200 Genetics IIB: Function and Diversity of Genomes, or GENETICS 2102 Genetics IIA (Molecular Biology) and GENETICS 2202 Genetics IIB (Molecular Biology), or GENETICS 2106 Genetics IIA (Biomedical Science) and GENETICS 2206 Genetics IIB (Biomedical Science)
- Assumed Knowledge: GENETICS 3000 Molecular Genetics: Genomes and Gene Expression
- Restriction: GENETICS 3005 Developmental & Medical Genetics (Biomed.)
- Assessment: exam, practical component, written reports

This advanced genetics course examines the dynamic nature of genomes revealed by the study of human genetics, developmental genetics and evolutionary genetics. Topics include: the human genome, human genome diversity, human genetic disease, genetic basis of cancer, neurogenetics, gene therapy, genetic control of animal development, genes and animal behaviour, the genetic basis of evolution, the roles of natural selection and chance, molecular evolution, molecular phylogeny, species concepts and the speciation process, and conservation genetics.

Honours

GENETICS 4000

Honours Genetics

- 24 units - full year
- Prerequisite: satisfactory performance in appropriate Level III courses offered by School of Molecular & Biomedical Science - students from other departments or institutions who have passed suitable Level III courses may be considered
- Assessment: details available from School

Candidates are required to give their full attendance for one academic year to a program of study. Each candidate will carry out a research investigation under the supervision of a member of staff. The program will include participation in seminars and discussions on advanced topics, essay writing and a research proposal. Candidates will be required to present the results of their research work in written form.

Intending Honours candidates should consult the Head of Genetics during the final year of the B.Sc.

Geography

Level I

GEOG 1004
Population, Globalisation and Social Justice

- 3 units - semester 2
- 2 lectures, 1 hour tutorial/practical work per week
- Available for Non-Award study
- Assessment: tutorial participation 20%, essays/projects 30%, exam 50%, total approx. 4500 words

Inequalities between individuals, groups, regions and nations are some of the most pervasive global problems. This course shows how a spatial approach can be utilised to understand these issues and assist in the development of policies to reduce them. Important inequalities at international, national and community levels are examined with particular focus on one Less Developed region (the Pacific Islands region) and one More Developed Nation (Australia). The major demographic, socio-economic, political and environmental processes that operate to create and maintain inequality are examined. Particular attention is paid to processes of population growth and change, globalisation, and emerging environmental problems. The course is strongly people-oriented with students investigating how global, national and regional populations change and the consequences of those changes. The issues investigated in the course include poverty, health, employment, power relationships and environmental impact. The course also equips students with a range of techniques and methodologies used by geographers to investigate these issues.

Level II

GEOG 2001
Biogeography and Biodiversity Conservation

- 4 units - semester 2
- 2 lectures, 1 x 3 hour practical/tutorial per week, plus fieldwork
- Prerequisite: 6 units Level I Humanities/Social Sciences
- Restriction: Aquatic and Biotic Environments
- Assessment: practical & field trip reports, poster, written exam, total approx. 6000 words

This course provides an introduction to the spatial patterns of plants and animals in relation to the physical environment around us. The themes addressed in this course include climatic systems at global and local scales, soils, ecosystems, environmental gradients and feedbacks, species adaptations to environments and the structure and dynamics of selected Australian biogeographic regions. An overlying theme will be the conservation of biodiversity at global, regional and local scales. The material presented in lectures will be supported by weekly practical exercises. The field trips involve surveys of vegetation-environment relations and participation in on-ground management of urban remnant vegetation to maximise biodiversity.

GEOG 2002
Cities and Globalisation

- 4 units - semester 2
- 2 lectures, 1 tutorial per week
- Prerequisite: 6 units Level I Humanities/Social Sciences
- Restriction: Cities and Housing
- Assessment: essay, tutorial participation and/or presentation, exam

At the pinnacle of urban development are global cities. Global cities are considered to be the basing points of globalisation. As such, cities such as New York and London have come to be perceived as being global rather than local places. The geographic study of urban environments is significant due to the central position cities occupy within the human imagination and experience. This course examines the social, political and economic functions of global cities and the ways in which global city relations constitute a network of global interaction. Drawing from a range of sources, including literature, film and television, other intellectual fields and the mass media, this course examines life within the global city. It provides a critique of the changes globalisation heralds for places and the communities that occupy them. In doing so, the course explores what global cities are and how changing power relations within and between global cities shapes urban life. Wherever possible Australian examples are used in order to ground theoretical debates more firmly into the lived experience of each student.

GEOG 2011
Environmental and Regional Planning

- 4 units - semester 1
- 2 lectures, 1 tutorial per week
- Prerequisite: 6 units Level I Humanities/Social Sciences
- Assessment: tutorial participation 20%, essay 40%, exam 40%; total approx. 6000 words

The course will provide a critical survey of the contemporary field of environmental planning in the Australian context. The course is centrally concerned with understanding deliberate efforts to translate (environmental) knowledge into action in order to achieve particular outcomes in the way the Australian landscape is used and managed. It will also consider how the objectives for land and resource use are shaped, fashioned and contested in democratic settings. The course will begin by introducing students to the long-dominant "command and control" approach (or rational planning model). It will then shift focus to address a set of intellectual and socio-political changes - new theories of ecology, the interrelationship between values and knowledge, the restructuring of the public sphere and the emergence of new actors - to set the

scene for contemporary approaches to environmental planning. A feature of the course's examination of contemporary approach will be in-depth analysis of nationally prominent cases of environmental management: the Regional Forest Agreement process, the Natural Heritage Trust and the Resource Assessment Commission's inquiry into land use at Coronation Hill. The course will critically examine contemporary thinking about environmental planning including: decentralised environmental management, the role of NGOs, community-based approaches and regional planning.

GEOG 2014

Population and Health

- 4 units - semester 2
- 2 lectures, 1 tutorial per week
- Prerequisite: 6 units Level I Humanities/Social Sciences
- Assessment: tutorial participation 10%, tutorial presentation 20%, project 30%, exam 40%; total approx. 6000 words

This course is aimed at introducing students to geographical and demographic perspectives in the study of health. It is concerned with providing students with the empirical knowledge, theoretical background and analytical studies to examine the distribution and determinants of health related states and mortality in populations. Such analyses involve both examination of variations between different types of groups; socio economic, ethnic, etc., and between different spatial areas. There will be a particular focus on migration and health. There will be an emphasis on developing applied skills in students so that they are familiar with the data sources required to study health and mortality in populations as well as with the major techniques involved. In particular, students will learn how new technologies in geographical information systems can be used to analyse the spatial patterns of disease and health, the geographical spread of diseases and in planning the allocation of health resources and location of health services. While there is a focus on the Australian situation in the course students will also be introduced to some of the major population and health issues in Asia. There will not only be an emphasis on examination of health and disease patterns in populations but also on planning the interventions needed to address health problems.

GEOG 2016

Australian Cultural Geographies

- 4 units - semester 1
- 2 lectures, 1 tutorial per week, plus 1 day fieldtrip
- Prerequisite: 6 units Level I Humanities/Social Sciences
- Assessment: essay, fieldtrip report, exam; total approx. 6000 words

This course provides a critical introduction to the geographic examination of culture. Culture provides what may be referred to as a complex 'map of meaning' through which we make sense of the world. This 'map' is pervasive as it shapes every facet of our social structures including our perceptions, values, morals and interactions. Yet culture is neither benign nor static. Focusing upon Australian case studies, the first part of this course traces the development of an Australian cultural identity. In doing so the first half of the course examines how cultural identities are shaped through the processes of nation building. Cornerstones of these processes that are critically examined include the bushman mythology and the ANZAC legend. The second part of this course questions the validity of this Australian cultural identity. Drawing upon examples ranging from Australia's migration history, to the feminist revolution and Sydney's Mardi Gras, the notion of a cohesive Australian cultural identity will be problematised. This course will present a range of primary evidence drawn from the mass media, literature, cinema, television and music, which will be analysed and discussed using theories ranging from identity politics, feminist theory, queer theory and the politics of difference.

GEOG 2018

Environmental Change

- 4 units - semester 1
- 2 lectures, 3 hour practical/tutorial per week, plus fieldwork
- Prerequisite: 6 units Level I Humanities/Social Sciences
- Assessment: practical & field report, exam, tutorial; total approx. 6000 words

The aim of this course is to introduce students to the global environmental fluctuations over the last two million years as context to recent anthropogenic change. Our focus is on the interactions between the geological, biological and hydrological processes that have given rise to the landscapes and ecosystems we see today. We then explore the affects of accelerating human impact on the environment and consider how far the long-term record may be useful in understanding recent change and predicting future environmental change. Topics include natural cycles of Quaternary climate change, glacials and interglacials, sea-level fluctuations, hydrological changes and the waxing and waning of vegetation communities. The past and future impacts of greenhouse warming, regulation and abstraction, deforestation, pollution, desertification and other recent perturbations are then examined in relation to natural rates and magnitudes of change.

GISC 2010

Introductory Spatial Information Systems

- 4 units - semester 1
- Lecture, 1 tutorial, 2 hour practical per week
- Prerequisite: 6 units Level I Humanities/Social Sciences
- Assumed Knowledge: intermediate computer skills
- Assessment: practical exercises/reports 50%, tutorial 10%, exam 40% - total approx. 6 000 words

This course provides an introduction to the theory behind and application of a variety of spatial information systems such as

geographic information systems, remote sensing, and geographic positioning systems. The course will explain what spatial information systems are and how they are used, and will discuss some of the basic concepts behind the input, storage, maintenance, manipulation, analysis, modelling and communication of spatial information. Fundamental concepts such as scale, reference data, projections and coordinate systems will be discussed along with just how we model reality within a computer using the vector and raster data models. The lectures will cover some basic spatial data visualisation and analysis techniques such as map overlay. Importantly, the focus of this course will be the application of spatial information systems to solving real world problems in many diverse areas including social, urban and the environment. The practical sessions will implement some basic spatial analytical techniques in some of the above areas of application using spatial information systems.

Level III

GEOG 3001

Biogeography and Biodiversity Conservation

- 6 units - semester 2
- 2 lectures, 1 x 3 -hour practical/tutorial per week, fieldwork
- Prerequisite: 8 units Level II Humanities/Social Sciences
- Restriction: Aquatic and Biotic Environments
- Assessment: practical & field trip reports, poster, essay, written exam; total approx. 9000 words

This course provides an introduction to the spatial patterns of plants and animals in relation to the physical environment around us. The themes addressed in this course include climatic systems at global and local scales, soils, ecosystems, environmental gradients and feedbacks, species adaptations to environments and the structure and dynamics of selected Australian biogeographic regions. An overlying theme will be the conservation of biodiversity at global, regional and local scales. The material presented in lectures will be supported by weekly practical exercises. The field trips involve surveys of vegetation-environment relations and participation in on-ground management of urban remnant vegetation to maximise biodiversity.

GEOG 3002

Cities and Globalisation

- 6 units - semester 2
- 2 lectures, 1 tutorial per week
- Prerequisite: 8 units Level II Humanities/Social Sciences
- Restriction: Cities and Housing
- Assessment: essay, tutorial participation and/or presentation, exam

At the pinnacle of urban development are global cities. Global cities are considered to be the basing points of globalisation. As such, cities such as New York and London have come to be perceived as being global rather than local places. The geographic study of urban environments is significant due to the central position cities occupy within the human imagination and experience. This course examines the social, political and economic functions of global cities and the ways in which global city relations constitute a network of global interaction. Drawing from a range of sources, including literature, film and television, other intellectual fields and the mass media, this course examines life within the global city. It provides a critique of the changes globalisation heralds for places and the communities that occupy them. In doing so, the course explores what global cities are and how changing power relations within and between global cities shapes urban life. Wherever possible Australian examples are used in order to ground theoretical debates more firmly into the lived experience of each student.

GEOG 3011

Environmental and Regional Planning

- 6 units - semester 1
- 2 lectures, 1 tutorial per week
- Prerequisite: 8 units Level II Humanities/Social Sciences
- Assessment: tutorial participation 20%, essay 40%, exam 40%, totalling approx. 9 000 words

The course will provide a critical survey of the contemporary field of environmental planning in the Australian context. The course is centrally concerned with understanding deliberate efforts to translate (environmental) knowledge into action in order to achieve particular outcomes in the way the Australian landscape is used and managed. It will also consider how the objectives for land and resource use are shaped, fashioned and contested in democratic settings. The course will begin by introducing students to the long-dominant "command and control" approach (or rational planning model). It will then shift focus to address a set of intellectual and socio-political changes – new theories of ecology, the interrelationship between values and knowledge, the restructuring of the public sphere and the emergence of new actors – to set the scene for contemporary approaches to environmental planning. A feature of the course's examination of contemporary approach will be in-depth analysis of nationally prominent cases of environmental management: the Regional Forest Agreement process, the Natural Heritage Trust and the Resource Assessment Commission's inquiry into land use at Coronation Hill. The course will critically examine contemporary thinking about environmental planning including: decentralised environmental management, the role of NGOs, community-based approaches and regional planning.

GEOG 3014

Population and Health

- 6 units - semester 2
- 2 lectures, 1 tutorial per week
- Prerequisite: 8 units Level II Humanities/Social Sciences
- Assessment: tutorial participation 10%, tutorial presentation 20%, project 30%, exam 40%, totalling approx. 9 000 words

This course is aimed at introducing students to geographical and demographic perspectives in the study of health. It is concerned with providing students with the empirical knowledge, theoretical background and analytical studies to examine the distribution and determinants of health related states and mortality in populations. Such analyses involve both examination of variations between different types of groups; socio economic, ethnic, etc., and between different spatial areas. There will be a particular focus on migration and health. There will be an emphasis on developing applied skills in students so that they are familiar with the data sources required to study health and mortality in populations as well as with the major techniques involved. In particular, students will learn how new technologies in geographical information systems can be used to analyse the spatial patterns of disease and health, the geographical spread of diseases and in planning the allocation of health resources and location of health services. While there is a focus on the Australian situation in the course students will also be introduced to some of the major population and health issues in Asia. There will not only be an emphasis on examination of health and disease patterns in populations but also on planning the interventions needed to address health problems.

GEOG 3016

Australian Cultural Geographies

- 6 units - semester 1
- 2 lectures, 1 tutorial per week, plus 1 day fieldtrip
- Prerequisite: 8 units Level II Humanities/Social Sciences
- Assessment: essay, fieldtrip report, exam, total approx. 9000 words

This course provides a critical introduction to the geographic examination of culture. Culture provides what may be referred to as a complex 'map of meaning' through which we make sense of the world. This 'map' is pervasive as it shapes every facet of our social structures including our perceptions, values, morals and interactions. Yet culture is neither benign nor static. Focusing upon Australian case studies, the first part of this course traces the development of an Australian cultural identity. In doing so the first half of the course examines how cultural identities are shaped through the processes of nation building. Cornerstones of these processes that are critically examined include the bushman mythology and the ANZAC legend. The second part of this course questions the validity of this Australian cultural identity. Drawing upon examples ranging from Australia's migration history, to the feminist revolution and Sydney's Mardi Gras, the notion of a cohesive Australian cultural identity will be problematised. This course will present a range of primary evidence drawn from the mass media, literature, cinema, television and music, which will be analysed and discussed using theories ranging from identity politics, feminist theory, queer theory and the politics of difference.

GEOG 3018

Environmental Change

- 6 units - semester 1
- 2 lectures, 1 x 3 hour practical/tutorial per week, plus fieldwork
- Prerequisite: 8 units Level II Humanities/Social Sciences
- Assessment: practical & field report, essay, exam, tutorial, total approx.9000 words

The aim of this course is to introduce students to the global environmental fluctuations over the last two million years as context to recent anthropogenic change. Our focus is on the interactions between the geological, biological and hydrological processes that have given rise to the landscapes and ecosystems we see today. We then explore the affects of accelerating human impact on the environment and consider how far the long-term record may be useful in understanding recent change and predicting future environmental change. Topics include natural cycles of Quaternary climate change, glacials and interglacials, sea-level fluctuations, hydrological changes and the waxing and waning of vegetation communities. The past and future impacts of greenhouse warming, regulation and abstraction, deforestation, pollution, desertification and other recent perturbations are then examined in relation to natural rates and magnitudes of change.

GISC 3010

Introductory Spatial Information Systems

- 6 units - semester 1
- Lecture, 1 tutorial, 2 hour practical per week
- Prerequisite: 8 units Level II Humanities/Social Sciences
- Assumed Knowledge: intermediate computer skills
- Assessment: practical exercises/reports 50%, tutorial 10%, exam 40%, total approx. 9 000 words

This course provides an introduction to the theory behind and application of a variety of spatial information systems such as geographic information systems, remote sensing, , and geographic positioning systems. The course will explain what spatial information systems are and what they are used for, and will discuss some of the basic concepts behind the input, storage, maintenance, manipulation, analysis, modelling and communication of spatial information. Fundamental concepts such as scale, reference data, projections and coordinate systems will be discussed along with just how we model reality within a computer using the vector and raster data models. The lectures will cover some basic spatial data visualisation and analysis techniques such as map overlay. Importantly, the focus of this course will be the

application of spatial information systems to solving real world problems in many diverse areas including social , urban and the environment. The practical sessions will implement some basic spatial analytical techniques in some of the above areas of application using spatial information systems.

GISC 3020
Advanced Spatial Analysis

- 6 units - semester 2
- 2 lectures, 1 tutorial, 2 hour practical per week
- Prerequisite: GISC 2010/3010 Introductory Spatial Information Systems, 4 units Level II Humanities/Social Sciences
- Assumed Knowledge: intermediate computer skills
- Assessment: practical exercises/reports 50%, tutorial 10%, exam 40%, total approx. 9000 words

This course builds upon and consolidates the work from GISC 2010/3010 Introductory Spatial Information Systems and broadens considerably the theoretical basis and practical implementation of these systems. The lectures introduce different data models used in the analysis of spatial information such as rasters and surfaces, geometric networks, topological editing, data acquisition and metadata, raster analysis and model-building with both social and environmental examples. Practical sessions implement these concepts with real applications in ArcGIS. Practical sessions will involve data management and analysis in a modern GIS environment, and topics such as data management and utilization, topological editing, network analysis, raster data management, analysis and modelling.

Honours

GEOG 4401
Honours Geography

- 24 units - full year
- Prerequisite: UG degree, credit average in courses contributing to major in Geography or equiv. approved by Head of Discipline
- Students wishing to take Honours Geography should consult the Honours Coordinator prior to commencing level II to ensure appropriate course choices are made in preparation for Honours
- Assessment: 2 coursework topics; essays, project work and/or exam for each coursework topic totalling 7000-9000 words per topic; 15000-20000 word thesis

The course consists of two parts - the first, equivalent to 50% of the course, is a compulsory workshop on research methodology leading to submission of a dissertation. The second consists of two coursework topics, each equivalent to 25% of the course and each studied during a single semester of lecture/seminars and tutorial/practicals. Details of the coursework topics available each year are given in the Geography Honours Handbook.

In some circumstances Honours Geography can be studied part-time over two years or can be combined with Honours in another discipline.

Geology

Level I

GEOLOGY 1100
Earth's Interior I

- 3 units - semester 1
- 3 lectures, 3 hours practical work per week, field work
- Assessment: written exams, assignments, practical work

This course provides a global perspective of Planet Earth and the dynamic processes that have modified it over its 4 billion-year history. We explore Earth's place in space and time and examine the operation of its internal chemical and physical processes. Fundamental concepts are developed: the formations and structure of the Earth; the driving forces of plate tectonics and continental drift; earthquakes and volcanoes, the formation and identification of geological materials, mountain building and rock deformation; the development of the geologic timescale. Emphasis is given to the geological evolution of Australia.

GEOLOGY 1200
Earth's Environment I

- 3 units - semester 2
- 3 lectures, 3 hours practical work per week, field work
- Assessment: written exams, assignments, practical work

This course looks at the dynamic global processes that affect the Earth and its environment today. Important problems are stressed: our use of finite natural resources, human impact on the planetary environment, landslides and subsidence, and extremes in the ocean-atmosphere system. We examine the development of the Earth's hydrosphere and atmosphere through time; the formation of ancient oceanic environments and the reconstruction of ice age climates; and the critical importance of soils to the environment. The course treats the Earth as a global system and gives perspective to common modern concerns such as 'greenhouse' and 'icehouse'.

Level II

GEOLOGY 2005

Geology for Engineers

- 2 units - semester 2
- 50 contact hours comprising lectures and practical work
- Assessment: theory exam 50%, practical exams, laboratory work, field excursions (attendance & report) (compulsory & non-redeemable) 50% - minimum 40% necessary in both theory and practical to obtain pass

An introduction to the basic geological background needed for civil and environmental engineers, covering the theory of plate tectonics and the evolution of our planet; igneous, metamorphic and sedimentary rock genesis; geophysics and the structure of the Earth's interior; economic geology; structural geology; mineralogy; exploration geophysics. Environmental geology issues will be dealt with at the end of the semester. There will be laboratory-based practicals introducing geological mapping, identification of minerals and rocks and geophysical site investigations, and also field-based practicals including visits to civil engineering constructions, with an emphasis on the geological aspects.

GEOLOGY 2006

Igneous and Metamorphic Geology II

- 4 units - semester 2
- 3 hours lecturers, 6 hours practical classes per week/12 weeks, single day field excursion
- Prerequisite: GEOLOGY 1100 Earth's Interior, GEOLOGY 1200 Earth's Environment
- Assumed knowledge: Some secondary school chemistry
- Restriction: GEOLOGY 2000 Mineralogy and Petrology II

This is a systematic course in the understanding of the materials of the geosciences. Students will be introduced to the study of igneous, metamorphic and ore rocks and their minerals. The course will develop skills and understanding in the area of methods of analysis, identification, determination and genesis of minerals and the igneous, metamorphic and ore rocks that these form. The course will introduce the students to mineralogical methods that include an understanding of optical, X-ray and chemical analysis.

GEOLOGY 2007

Sedimentary & Structural Geology II

- 4 units - semester 1
- 8 hours lectures & practicals per week/11 weeks
- Assumed knowledge: GEOLOGY 1100 Earth's Interior I or GEOLOGY 1200 Earth's Environment I

The course begins with an introduction to the composition, textures, structures and depositional settings of both siliciclastic and chemical sediments and their significance as indicators of modern and ancient environments. The second module deals with the deformation of sedimentary strata once they have become lithified. The key elements of structural geology are outlined: fractures (faults, joints, veins), folds and fold geometry, rock fabrics (foliations, lineations) and the forces that produced them (rock mechanics). The geological structures observed at the Earth's surface are represented on two-dimensional maps. This module (and the mapping camp) equips the student to visualise sedimentary rock sequences in the third dimension by way of constructing subsurface cross-sections. Fieldwork, in the form of local and regional excursions, is an integral component of this course. The eight-day excursion to the Southern Flinders Ranges is a seminal learning experience wherein the main elements of stratigraphic and structural mapping, field interpretation, and field safety are taught.

The final module, palaeontology introduces the fourth dimension of geology (time) by way of a survey of the major fossil ecosystems and how they changed over geological time. This modern approach to palaeonyology is taught using key South Australian examples.

GEOLOGY 2008

Surficial Geology II

- 4 units - semester 2
- 3 hours lectures, 5 hours practical per week/12 weeks, 7 days in field - soil and regolith surveys
- Assumed knowledge: GEOLOGY 1200 Earth's Environment I

This course will develop skills and knowledge in 'reading' and understanding landscapes and the Earth materials encountered specifically at and near the Earth's surface. The approaches covered are fundamental to environmental geoscience and the management of the Earth's resources. This includes the morphological, geochemical and physical description of pedological and regolith materials such as soils, weathering profiles, surficial sediments, indurated regolith as well as how they interact with other components of the lithosphere, biosphere and hydrosphere. An emphasis will be given to describing these materials in the field and to collecting field data and its later presentation and interpretation. A field trip to arid zone landscapes in the Broken Hill region (during mid-semester break) provides experience in field mapping and description as well as survey design and sample collection for later laboratory study and data presentation and interpretation for both environmental and mineral exploration applications.

Level III

GEOLOGY 3008

Theoretical Geophysics III

- 3 units - semester 2
- 3 lectures, 3 hours practical, 1 tutorial a week
- Prerequisite: MATHS 1007A/B Mathematics I Part 1/Part 2 or equivalent
- Assumed knowledge: GEOLOGY 1100 Earth's Interior, GEOLOGY 1200 Earth's Environment
- Restriction: GEOLOGY 3008 Theoretical Geophysics IIIS
- Assessment: practical assignments 40%, 3 hour exam 60%

Geophysicists are employed in a wide range of industries, including petroleum and mineral exploration, groundwater, contaminants and salinity evaluation, state and government geological surveys, defence science and academic research. This course provides the mathematical and physical background for a career in solid-earth, exploration and environmental geophysics. It is split into (i) potential field theory (gravity and magnetics), (ii) seismic methods and (iii) electromagnetic methods. In each section, we start with the underlying theory and examine applications at global, exploration and environmental scales. The course is aimed at students from a range of numerate scientific backgrounds including geoscience, physics, engineering, mathematics and computer sciences.

GEOLOGY 3010

Remote Sensing (S)

- 3 units - semester 2
- 2 lectures, 3 hours practical work, 1 tutorial per week
- Prerequisite: 16 units of Level II science courses units or equiv
- Restriction: GEOG 3008 Remote Sensing III(A), Remote Sensing IIIA, SOIL&WAT 3008 Remote Sensing for Environmental and Agricultural Sciences
- Assessment: exam 50%, practical exercises 50%

Remote sensing interprets image-based information gathered by space and airborne platforms using various scanning systems. This course examines the principles and applications of remote sensing to a range of disciplines. Principles include the interaction of electromagnetic radiation with the Earth's atmosphere and surface, spectral characteristics of earth surface materials, and the nature of imagery collected by a variety of earth-observation sensors. We will discuss the use of spectral data to identify and characterise objects (rocks, soils, vegetation, water), produce thematic maps and monitor changes over time. The nature and application of specialized forms of remote sensing including radiometric data, hyperspectral, radar and thermal imagery are also considered. These data are relevant to a wide range of applications including geology, environmental and agricultural science. Information is extracted using digital image processing: correction, enhancement and classification of the digital data and its integration with geographic information systems. Practicals are used to give 'hands-on' experience with the basics of digital image interpretation and processing and application to specific projects.

GEOLOGY 3013

Tectonics III

- 3 units - semester 1
- 7 hours lectures/tutorials, practicals per week/12 weeks
- Assumed knowledge: GEOLOGY 1100Earth's Interior, GEOLOGY 1200 Earth's Environment, GEOLOGY 2000 Mineralogy and Petrology II, GEOLOGY 2001 Structural and Field Geology II

This course will develop knowledge of the Earth as a four-dimensional dynamic system. The megascopic structure of the earth –oceanic and continental crust and lithosphere, and the asthenosphere, will be introduced and compared. The basic dynamic potentials acting on the Earth (heat, gravity) will be examined, and their diverse first order effects explored (isostasy, convection, exhumation, pluming). The concepts of rifting and ocean formation will be examined, as will those of subduction and mantle plumes. Processes of orogenesis will be examined in depth. Recent and Mesozoic evidence (structural, geochemical, geophysical, sedimentological) for the operation of these processes will be examined. We will then turn to examine evidence and constraints on interpretation of these processes operating in past geological eras: the Palaeozoic, Proterozoic and Archaean. Emphasis will be placed upon understanding the tectonic evolution of the Australian Plate and its current boundary conditions with neighbouring oceanic and continental plates.

GEOLOGY 3014

Surficial Geology III

- 3 units - semester 2
- 2 Lectures, 4 hour practical, 1 tutorial per week, 2 days field work
- Assumed knowledge: GEOLOGY 2008 Surficial Geology II
- Restrictions: GEOLOGY 3009 Environmental Geology III, GEOLOGY 3011 Environmental Geology IIN

This course covers advanced aspects geological processes in near-surface geological environments and the methods used to quantify these processes in time and space. The evolution of soil and regolith are treated in a context of landscape evolution and climatic variation on local, regional and global scales. Thus the course will draw on the basic principles of sedimentation, erosion and weathering on the earth's surface. Geo-microbiological principles are introduced as an integrative part of the soil/regolith evolution process.

Environmental issues such as contamination resulting from industrial activity, sea level changes and coastal erosion and

agriculture and soil degradation will be discussed in the frame of their scientific background, their social and economic relevance on local, national and global scale. Practical work includes soil classification methods, quantitative regolith geochemistry, coastal erosion in urban planning and an introduction into the evaluation of contamination from mining wastes. The course will further include three days of field visits to sites of integrated field work and site inspection in the vicinity of Adelaide.

GEOLOGY 3015

Surficial Geology III Field Program

- 3 units - semester 2
- 2 hours lectures/tutorials, 3 hours practicals per week/ 4 weeks, 6 days in field - soil and regolith survey
- Corequisite: GEOLOGY 3014 Surficial Geology III; GEOLOGY 3010 Remote Sensing III
- Assumed knowledge: GEOLOGY 2008 Surficial Geology II

This course will develop skills in pedological and regolith survey. Students will gain an understanding of soil classification systems and methods of describing and evaluating the potential of soils and weathered materials for agricultural and engineering use by undertaking a field survey at 1:10,000 scale. The recognition and description of regolith materials and their relation to land form, climate, and lithology will be introduced in the laboratory and reinforced during actual field survey. Students will be introduced to the statistical techniques for measuring variability in map units and variation of soil properties and regolith characteristics. In the field and in the laboratory, students will learn how to measure hydrological properties - infiltration, sorptivity and hydraultic conductivity - and a range of other physicochemical, mineralogical and biological properties.

GEOLOGY 3016

Igneous & Metamorphic Geology III

- 3 units- semester 1
- 7 hours lectures/tutorials, practicals per week/12 weeks
- Prerequisite: GEOLOGY 2006 Igneous & Metamorphic Geology II or GEOLOGY 2000Mineralogy and Petrology II
- Assumed knowledge: some secondary school chemistry
- Restriction: GEOLOGY 3004 Igneous and Metamorphic Petrology III, Earth's Internal Processes III

This course is concerned with aspects of the long-term thermal and material history of the earth's lithosphere and mantle. The course has as its foundation the basic skills learnt at level II in Igneous and Metamorphic Geology II. Included amongst the skills learnt in this course are understanding of the governing theory describing high temperature element partitioning between fluids and melts, the thermodynamic theory that governs and predicts sub-solidus mineral growth and reaction and the principles of natural radioactive decay and the application of isotopes to geochronology. Metamorphic Geology: This examines the nature and change of sub-solidus mineral assemblages and textures in rocks. This information provides a sound basis with which to examine orogenic processes. Igneous Geology: This section examines the physical controls on the generation and differentiation of silicate melts within the earth and the contribution these processes have made to the composition of the crust and mantle through time. Part of this section of the course is devoted to case studies of magma generation in key tectonic settings on the current earth and the extrapolation of this knowledge back through time

GEOLOGY 3017

Petroleum Exploration III

- 3 units - semester 1
- 7 hours lectures, practicals per week/12 weeks
- Assumed knowledge: GEOLOGY 2007 Sedimentary and Structural Geology II

This course introduces the unifying concept of a petroleum system and shows how it may be used in the exploration of sedimentary basins for their oil and gas resources. The course has three inter-related themes: sequence stratigraphy, seismic methods and applied organic geochemistry. The basic principles of sequence stratigraphy are outlined including how cyclical stratigraphic patterns reflect changes in sediment supply and accommodation. The building blocks of sedimentary sequences (facies successions, key surfaces and stacking patterns) are highlighted, and how these are displayed on seismic sections and well logs. The history of the development of modern seismic and sequence stratigraphy is discussed. Current sequence stratigraphic models for siliciclastic and carbonate depositional settings in different types of basins are introduced, but the emphasis is on the flexible and pragmatic application of stratigraphic concepts and principles.

The second module covers the seismic techniques (refraction and reflection) that play a crucial role in delineating the sub-surface architecture of basins, in particular hydrocarbon kitchens, migration pathways, reservoirs and traps. The final module examines the use of geochemistry as a tool in petroleum exploration. Specific topics include source rock evaluation; the generation and migration of hydrocarbons; and the geological controls on crude oil consumption.

GEOLOGY 3018

Mineral Exploration III

- 3 units - semester 1
- 2 lectures, 3 hours practical, 1 tutorial a week, 4 days fieldwork
- Assumed knowledge: GEOLOGY 1100 Earth's Interior, GEOLOGY 1200 Earth's Environment, GEOLOGY 2006 Igneous and Metamorphic Geology II
- Restrictions: GEOLOGY 3003 Economic Mineral Deposits; GEOLOGY 3006 Mineral and Environmental Geophysics

This course covers genetic processes and geological setting of economic mineral deposits, and the exploration strategies employed by industry. Mineralising processes are seen in the framework of the tectonic, petrogenetic and geochemical evolution of the Earth's crust on local, regional and global geological scales. Thus, we will draw upon igneous and metamorphic petrology, geochemistry, sedimentary facies analysis, and the science of soils, weathering and diagenesis in the setting of evolving landscapes.

Mineral exploration will be examined in terms of the physical and chemical characteristics of mineral deposits, and their geophysical and geochemical detection, with an emphasis on exploration strategies in regolith-covered environments. We will also discuss the tightly interrelated issues of economics of natural resources, environmental conservation and rehabilitation, and social impacts of the mining industry. Practical work includes ore microscopy, quantitative analytical methods, thermodynamic calculations, geophysical field methods, as well as an introduction to exploration software packages. The course will include at least three days of integrated geochemical and geophysical fieldwork, with industry visits to South Australian mineral deposits, PIRSA and mineral exploration companies in Adelaide.

GEOLOGY 3019

Field Geoscience Program III

- 3 units - semester 2
- 15 days fieldwork
- Corequisite: Tectonics III, Igneous and Metamorphic Geology III
- Assumed knowledge: GEOLOGY 1100 Earth's Interior, GEOLOGY 1200 Earth's Environment, GEOLOGY 2000 Mineralogy and Petrology II, GEOLOGY 2001 Structural and Field Geology II

This course provides a comprehensive introduction to independent geological mapping and the construction of geological maps. You will develop the skills required to interpret and solve geological relationships at a variety of scales, and synthesise them into four-dimensional models that describe the geological evolution of terrains. These skills include hand specimen and outcrop geology, mapping and stratigraphic analysis at a range of scales, aerial photo interpretation, remote sensing and the integration of geophysical datasets into geological mapping and interpretation. Thus, the course will draw upon the principals of structural geology and combine them with an understanding of sedimentary, igneous and metamorphic rock systems. Fieldwork will focus on the Precambrian terrains of southern and central Australia, however the acquired skills will be transferable into any aged geological system.

Honours

GEOLOGY 4000

Honours Geology

- 24 units - full year
- Prerequisite: Pass in minimum of two courses, at level acceptable to Head or nominee, passed Geology III mapping camp
- Assumed Knowledge: other third year courses offered by Discipline of Geology and Geophysics
- Assessment: course work related 30%, research project related 70%

Candidates may be required to attend course programs in specialised earth science topics. Candidates will undertake supervised individual research projects. Specific research programs will be generated for each individual candidate, usually involving field and laboratory work and literature review. This will require their full time. Candidates will be required to present a series of seminars, to prepare a poster and a manuscript on their research. An interstate study tour is normally held early in the year.

Intending Honours students must apply, before the end of the year preceding that in which they wish to enrol, to the Head of Geology and Geophysics or nominee for approval of their candidature. They are advised to access the Discipline's web site for more detailed information:www.geology.adelaide.edu.au/

GEOLOGY 4001

Honours Geophysics

- 24 units - full year
- Prerequisite: passes satisfactory to Head of Discipline in 3 Level III Geophysics courses & at least one of other Level III courses offered by Discipline or Applied Mathematics or Physics and Mathematical Physics - students with a different background of may be accepted at discretion of Head of Discipline or nominee

Candidates will be required to attend a core program of geophysics courses. These include some combination of signal analysis, airborne geophysics, electrical and EM techniques, seismic processing, seismic interpretation, and geophysical field work. Honours students may, after consultation with the Head or nominee, also be required to take some level III courses in Geology and Geophysics, Applied Mathematics or Physics and Mathematical Physics which they did not take in third year. In addition, candidates will undertake supervised individual projects; possible topics should be discussed with the Head or nominee before the end of the preceding year. Special programs of reading and laboratory studies will be laid down and each candidate will be required to give all the time not required for lectures or in the field to work in the laboratory. Candidates will be required to contribute to a series of seminars.

Intending Honours students must apply, before the end of the year preceding that in which they wish to enrol, to the Head of Discipline of Geology and Geophysics or nominee for approval of their proposed programs of study.

GEOLOGY 4002

Honours Geology and Botany

- 24 units - full year
- Prerequisite: Level III Botany courses at credit level of at least 6 units and Level III geology at credit level of at least 6 units
- Assessment: thesis, exams, seminar

The course allows students who have completed at least 6 units of both Geology and Botany at a credit standard or better to undertake an honours project unique to their skills. Students undertake a major research project in Geology and Geophysics and undertake minor components (eg coursework, minor projects, essays) in Botany.The course may be particularly relevant to students interested in palaeobotany, plant/mineral interactions or minesite reclamation/ rehabilitation.

Intending candidates should consult the Head of Discipline and potential supervisors during the final year of study in the degree and be prepared to begin studies in early February or August.

GEOLOGY 4003

Honours B.Environmental Science (Geology)

- 12 units - full year
- Prerequisite: credit or higher standard in at least two Level III courses approved by Head of Discipline, Geology and Geophysics
- Requirement: modest research project of student's choosing (on topic acceptable to Discipline) normally taken at same time as coursework (4 Level III courses - 12 units - relevant to student's Honours project and approved by Head of the Discipline)
- Assessment: research proposal, literature review, seminars, thesis 60%, average of 4 specified Level III courses 40%

Intending candidates should consult the Head of Discipline and potential supervisors during the third year and be prepared to begin studies in the Discipline at the beginning of February or July (mid year intake).

GEOLOGY 4007

Level IV Geological Study Tour

- 3 units - semester 1
- 3 hours per day/5 days, excursion, 8 hours per day/7 days
- Eligibility: for B.Env.Sc. students only
- Prerequisite: GEOLOGY 1000A/B Planet Earth I, GEOLOGY 1001 Environmental Geoscience or GEOLOGY 2005 Geology for Engineers
- Corequisite: GEOLOGY 4003A/B Honours Environmental Science (Geology)
- Assessment: assignments, presentations, field performance, oral exam

The course is introduced with one week of workshop style lectures, tutorials and practicals, during which students are introduced to the geological and environmental themes and issues that will be illustrated during the field study tour. Students are given background reading and are individually assigned to research and report on a geological issue relevant to the excursion.

GEOPHYS 4001

Honours Geophysics

- 24 units - full year
- Prerequisite: passes satisfactory to Head of Geology & Geophysics in 9661 Earth's Structure, Geophysics and Geostatistics III, 5787 Geophysics IIIS, at least one other Level III courses offered by Discipline, or School of Applied Mathematics or Discipline of Physics & Mathematical Physics - students with different background may be accepted at discretion of Head of Discipline

Candidates will be required to attend a core program of geophysics courses. These will include signal analysis, geostatistics, aeromagnetics, electrical and EM techniques, seismic processing, seismic interpretation, and geophysical field work. Honours students may, after consultation with the Head or nominee, also be required to take some level III courses in the Disciplines of Geology and Geophysics, Applied Mathematics or Physics which they did not take in third year. In addition, candidates will undertake supervised individual projects; possible topics should be discussed with the Head or nominee before the end of the preceding year. Special programs of reading and laboratory studies will be laid down and each candidate will be required to give all the time not required for lectures or in the field to work in the laboratory. Candidates will be required to contribute to a series of seminars.

Intending Honours students must apply, before the end of the year preceding that in which they wish to enrol, to the Head of Geology and Geophysics or nominee for approval of their proposed program of study.

PETROL 4000TB

Honours Petroleum Geology and Geophysics

- 24 units - full year
- Prerequisite: typically a B.Sc. majoring in Geology and/or Geophysics, or equivalent - students require a background in some/all of the following: sedimentology, stratigraphy, structural geology and exploration geophysics; combinations of third year geoscience courses with other appropriate science or mathematics courses may be acceptable
- Assessment: includes formal written & oral assessments, marked practical exercises, assignments & seminars - coursework 50%, project thesis 50%

The program comprises three components: (a) five months of coursework, commencing in late January. This provides a thorough grounding in petroleum geoscience. All students take a set of core topics, with additional specialist geology or geophysics units. Details can be found at www.asp.adelaide.edu.
(b) six-week internship in the petroleum industry, normally commencing in late June. (c) supervised individual research project, which is written up as a thesis, and submitted in early November. Work done during the internship usually forms the basis of the thesis.

Depending on the nature of their previous studies and experience, coursework exemptions, substitutions or additions may be granted or required for some students. Intending students must apply before the end of the year preceding that in which they wish to enrol.

German Studies

Level I

GERM 1002

German IA: Beginners' German Part 1

- 3 units (4.5 Flinders units) - semester 1
- 4 hours lectures per week
- Flinders students should enrol in GERM 1002FL
- Available for Non-Award study
- Restriction: except with permission SACE Stage 2 German or equiv.
- Assessment: class tests, end of semester test, oral exam

With no previous knowledge of German assumed, special emphasis will be placed on speaking and comprehension, then on reading, writing and grammar. It is expected that each student will spend at least six hours of private study reviewing work done in class and preparing for lessons. Aspects of German culture will be a component of language instruction throughout the semester.

GERM 1003

German IA: Beginners' German Part 2

- 3 units (4.5 Flinders units) - semester 2
- 4 hours lectures per week
- Flinders students should enrol in GERM 1003FL
- Available for Non-Award study
- Prerequisite: GERM 1002 German Studies IA: Beginners' German Part 1 (Pass Div 1)
- Restriction: except with permission SACE Stage 2 German or equiv.
- Assessment: class tests, end of semester test, oral exam

This second semester course is a sequel to German IA Beginners' German Part 1. It is expected that each student will spend at least six hours of private study reviewing work done in class and preparing for lessons. Aspects of German culture will be a component of language instruction throughout the semester.

GERM 1011

German Studies I Part 1

- 3 units (4.5 Flinders units) - semester 1
- 3 lectures, 1 tutorial per week
- Flinders students should enrol in GERM 1011FL
- Available for Non-Award study
- Assumed Knowledge: SACE Stage 2 German or equiv.
- Assessment: language - class tests, end of semester tests, tutorial participation; other - essays, end of semester tests or working papers, reasonable balance of achievement in all areas required to pass course

The aim of this course is to introduce students to the life and language of German-speaking countries, to make them more skilled at speaking and writing the language and more informed about contemporary German culture. Three out of four hours are devoted to practical language instruction in formal language classes and small tutorial groups, and one hour per week to cultural and historical studies. Students with outstanding qualifications in language may, with the permission of the Discipline Convenor, take the language components of the course at a more advanced level. Further information on course content can be obtained from the discipline of German Studies.

GERM 1012

German Studies I Part 2

- 3 units (4.5 Flinders units) - semester 2
- 3 lectures, 1 tutorial per week
- Flinders students should enrol in GERM 1012FL
- Available for Non-Award study
- Prerequisite: GERM 1011 German Studies I Part 1 (Pass Div 1)
- Assessment: language - weekly exercises, end of semester tests, tutorial participation; other - essays, end of semester tests or working papers; reasonable balance of achievement in all areas required to pass course

The aim of this course is to introduce students to the life and language of German-speaking countries, to make them more skilled at speaking and writing the language and more informed about contemporary German culture. Three out of four hours are devoted to practical language instruction in formal language classes and small tutorial groups, and one hour per week to cultural and historical studies. Students with outstanding qualifications in language may, with the permission of the Discipline Convenor, take the language components of the course at a more advanced level. Further information on course content can be obtained from the discipline of German Studies.

Level II

GERM 2002

German Studies IIA: Language and Culture Part 1

- 4 units (6 Flinders units) - semester 1
- Flinders students should enrol in GERM 2002FL
- 2 hours language instruction, 1 lecture, 1 tutorial per week
- Prerequisite: GERM 1003 German Studies IA: Beginners' German (Pass Div 1)
- Assessment: language - class tests, semester tests, tutorial participation; other - essays, end of semester tests or working papers; reasonable balance of achievement in all areas required to pass course

This course offers a balance between practical language instruction and teaching a critical appreciation of literature, culture and society in German-speaking countries. German Studies IIA students will do the lectures and language classes with German Studies I, but will be required to do some additional work appropriate to their level.

GERM 2003

German Studies IIA: Language and Culture Part 2

- 4 units (6 Flinders units) - semester 2
- Flinders students should enrol in GERM 2003FL
- 2 hours language instruction, 1 lecture, 1 tutorial per week
- Prerequisite: GERM 2002 German Studies IIA: Language and Culture Part 1 (Pass Div 1)
- Assessment: language - class tests, semester tests, tutorial participation; other - essays, end of semester tests or working papers; reasonable balance of achievement in all areas required to pass course

This course offers a balance between practical language instruction and teaching a critical appreciation of literature, culture and society in German-speaking countries. German Studies IIA students will do the lectures and language classes with German Studies I, but will be required to do some additional work appropriate to their level.

GERM 2005

German in Germany

- 4 units - summer semester (10 Jan - 18 Feb 2005 at Stuttgart Winter University)
- Prerequisite: 24 units at Level 1 or equivalent
- Assessment: as specified for specific language & culture courses taken as part of Stuttgart Winter University program - students should keep all work in a folder to show to staff in German Studies when they return; if they intend to count this course towards a major in German, the Discipline reserves the right to require completion of an essay in addition to work completed in Germany

The course is divided into two components running concurrently: (a) an intensive language course - students undertake 16 hours of instruction per week in a totally German-speaking language environment; (b) a cultural/historical program which will entail 8 hours per week of the chosen elective. There will also be visits to museums and art galleries as well as to other significant cultural centres. For details, contact the German Studies discipline or the International Office.

GERM 2008

German Special Topic II

- 4 units - semester 1 & 2
- There are two topic choices in this course

Culture

- 2 lectures, 1 tutorial per week
- Prerequisite: German Studies I Part 2 (Pass Div 1) or German Studies IA: Beginners' German Part 2 (Pass Div 1)
- Restriction: please consult the German Studies discipline
- Assessment: as specified by Discipline of German Studies

Students will attend lectures in a European Studies course as advised by the discipline of German Studies or an option offered by German Studies. Assignments and tutorials will be in German.

Language

- 4 hours per week
- Prerequisite: 6 units Level I Humanities/Social Sciences
- Restriction: not available to students who have completed Level I German
- Assessment: as for German Studies IA or German Studies I 60%; 1500 word essay in English on German culture to be negotiated with the course coordinator 40%

This course offers the opportunity for students in second year to be introduced to German language and culture at a more intensive level than at first year. It is particularly appropriate for prospective postgraduates needing reading skills in German and/or students wishing to do an Honours degree who are not majoring in a European language but need to develop a reading ability of the German language for research purposes. The research essay component of the course enables students to choose a topic in line with their own research interests. Students will be required to read selected German texts, although they will write their essay in English.

GERM 2011

German Studies II: Language and Culture Part 1

- 4 units (6 Flinders units) - semester 1
- Flinders students should enrol in GERM 2011FL
- 3 lectures, 1 tutorial per week
- Prerequisite: GERM 1012 German Studies I Part 2 (Pass Div 1)

- Assessment: language - weekly exercises, end of semester tests, tutorial participation; other - essays, end of semester tests; reasonable balance of achievement in all areas required to pass course

Like all courses in German at second and third year level, this course offers a balance between practical language instruction and studying the social, literary and political culture of German-speaking countries in the past and present, with particular emphasis on the last 250 years, from the eighteenth century Enlightenment to the present. Language instruction consists of one formal hour per week and one weekly tutorial in small groups. In addition, all students will normally take the Core Course: Studies in German Literature and Cultural Background. Details are available in the discipline handbook. Students with outstanding qualifications in language may, with the permission of the Convenor of the Discipline, take the language components of the course at a more advanced level.

GERM 2012

German Studies II: Language and Culture Part 2

- 4 units (6 units at Flinders) - semester 2
- Flinders students should enrol in GERM 2012FL
- 3 lectures, 1 tutorial per week
- Prerequisite: GERM 2011 German Studies II: Language and Culture Part 1 (Pass Div 1)
- Assessment: language - weekly exercises, end of semester tests, tutorial participation; essays - reasonable balance of achievement in all areas required to pass course

Like all courses in German at second and third year level, this course offers a balance between practical language instruction and studying the social, literary and political culture of German-speaking countries in the past and present, with particular emphasis on the last 250 years, from the eighteenth century Enlightenment to the present. Language instruction consists of one formal hour per week and one weekly tutorial in small groups. In addition, all students will choose one of various options offered. Details are available in the discipline handbook.

Students with outstanding qualifications in language may, with the permission of the Convenor of the Discipline, take the language components of the course at a more advanced level.

Level III

GERM 3002

German Studies IIIA: Language and Culture Part 1

- 6 units (6 Flinders units) - semester 1
- Flinders students should enrol in GERM 3002FL
- 3 lectures, 1 tutorial per week
- Prerequisite: GERM 2003 German IIA: Language & Culture Part 2 or equivalent
- Assessment: language - written exercises, end of semester tests, tutorial participation; other - essays/end of semester tests/working paper; reasonable balance of achievement in all aspects required to pass course

This course is a continuation of German Studies IIA. Students will do the language section of the course with German Studies II and the core course and options with German Studies III. Language instruction consists of one formal hour per week and one weekly tutorial. In addition, students will normally take the core course: Studies in German Literature and Cultural Background. Details are available in the discipline handbook.

GERM 3003

German Studies IIIA: Language and Culture Part 2

- 6 units (also 6 Flinders units) - semester 2
- Flinders students should enrol in GERM 3003FL
- 3 lectures, 1 tutorial per week
- Prerequisite: GERM 3002 German IIIA: Language & Culture Part 1 or equivalent
- Assessment: language - written exercises, end of semester tests, tutorial participation; other - essays/end of semester tests/working paper; reasonable balance of achievement in all aspects required to pass course

This course is a continuation of German Studies IIIA Part 1. Students will do the language section of the course with German Studies II and the core course and options with German Studies III. Language instruction consists of one formal hour per week and one weekly tutorial. In addition, all students will choose one of the various options offered. Details are available in the discipline handbook.

GERM 3005

German in Germany

- 6 units - summer semester (10 Jan - 18 Feb 2005 at Stuttgart Winter University)
- Prerequisite: 24 units at Level I or equivalent
- Assessment: As specified for specific language & culture courses taken as part of Stuttgart Winter University program - students should keep all work in a folder to show to staff in German Studies when they return; if they intend to count this course towards a major in German, the Discipline reserves the right to require completion of an essay in addition to work completed in Germany

The course is divided into two components running concurrently: (a) an intensive language course. Students undertake 16 hours of instruction per week in a totally German-speaking language environment; (b) a cultural/historical program which will entail 8 hours per week of the chosen elective. Students who have completed GERM 2012 German Studies II will normally be expected to take the culture elective offered in German. There will also be visits to museums and art galleries as well as to other

significant cultural centres. For details, contact the German Studies discipline or the International Office.

GERM 3008

German Special Topic III

- 6 units - semester 1 & 2
- There are two topic choices in this course

Culture

- 2 lectures, 1 tutorial per week
- Prerequisite: German Studies II Part 2 or German Studies IIA or German Studies IIB Part 1 or German Studies IIB Part 2
- Restriction: consult the German Studies discipline for information
- Assessment: as specified by Discipline of German Studies

Students will attend lectures in a European Studies course as advised by the discipline of German Studies or an option offered by German Studies. Assignments and tutorials will be in German.

Language

- 4 hours per week
- Prerequisite: 8 units Level II Humanities/Social Sciences
- Restriction: not available to students who have completed German language at any level
- Assessment:as for German Studies IA or German Studies I 60%; 1500 word essay in English on German culture to be negotiated with the course coordinator 40%

This course offers the opportunity for students in third year to be introduced to German language and culture at a more intensive level than at first or second year. It is particularly appropriate for prospective postgraduates needing reading skills in German and/or students wishing to do an Honours degree who are not majoring in a European language but need to develop a reading ability of the German language for research purposes. The research essay component of the course enables students to choose a topic in line with their own research interests. Students will be required to read selected German texts, although they will write their essay in English.

GERM 3011

German Studies III: Language and Culture Part 1

- 6 units (also 6 Flinders units) - semester 1
- Flinders students should enrol in GERM 3011FL
- 3 lectures, 1 tutorial per week
- Prerequisite: GERM 2012 German Studies II: Language and Culture Part 2 or equivalent
- Assessment: language - weekly exercises, end of semester tests, tutorial participation; other - essays, end of semester tests or working papers
- Where students take course components also available to second year students, a higher level of achievement is required and additional work must be completed.

Like all courses in German Studies at second and third year level, German Studies III offers a balance between practical language instruction and studying the social, literary and political culture of German-speaking countries in the past and present, with particular emphasis on the last 250 years, from the eighteenth century Enlightenment to the present. Language instruction consists of one formal hour per week and one weekly tutorial in small groups. In addition, all students will normally take the core course: Studies in German Literature and Cultural Background. Details are available in the German Studies handbook.

GERM 3012

German Studies III: Language and Culture Part 2

- 6 units (also 6 Flinders units) - semester 2
- Flinders students should enrol in GERM 3012FL
- 3 lectures, 1 tutorial per week
- Prerequisite: GERM 3011 German Studies III: Language and Culture Part 1 or equivalent
- Assessment: language - weekly exercises, end of semester tests, tutorial participation; other - essays, end of semester tests or working papers
- Where students take course components also available to second year students, a higher level of achievement is required and additional work must be completed.

Like all courses in German Studies at second and third year level, German Studies III offers a balance between practical language instruction and studying the social, literary and political culture of German-speaking countries in the past and present, with particular emphasis on the last 250 years, from the eighteenth century Enlightenment to the present. Language instruction consists of one formal hour per week and one weekly tutorial in small groups. In addition, all students will choose one of the various options offered. Details are available in the German Studies handbook.

Honours

GERM 4401

Honours German Studies

- 24 units - full year
- Prerequisite: UG degree, credit average in courses contributing to a major in German Studies or equiv. approved by German Studies
- Requirements: students will write a dissertation (12,000 words in German) on some aspect of German Studies. Choice of course should be made not later than the middle of the second semester in the preceding year. Students must also attend advanced courses in language, together with one option. Both thesis topics and options should be chosen in consultation with the Honours Coordinator.

Students may obtain the permission of the Faculty of Humanities and Social Sciences to combine German Studies with another

discipline for the Honours degree. They should consult the Honours Coordinator in German Studies as soon as possible, so that a suitably modified program of study can be arranged. The 15,000 word thesis will then be written in English. In some circumstances Honours in German Studies can be studied part-time over two years. Please see the German Studies Handbook for further details.

History

Level I

HIST 1105

Europe, Empire and the World 1492-1914

- 3 units - semester 1
- 2 lectures, 1 tutorial per week
- Available for Non-Award study
- Restriction: HIST 1105A/B Europe, Empire and the World 1450-1956
- Assessment: 2 essays, exam, tutorial participation, attendance

This course will consider Europe from the Renaissance to the eve of the Great War. In this period, Europe explored and conquered new worlds: new worlds of religion, art, science, politics, production, and consumption, as well as the "New World" of the Americas, and large parts of Africa and Asia. We will examine the wrenching effect these explorations had on Europe and on the world, paying particular attention to the Renaissance, Reformation and Counter-Reformation, European expansion, Enlightenment, the crisis of the Old Regime, ideas and ideologies of industrialization, and the 'new imperialism' of the late nineteenth century. Alongside the momentous we will consider the mundane: changes in daily lives of ordinary people. We will study the interaction between 'high culture' and 'low culture', and examine ways in which ordinary men and women shaped and responded to the emerging modern world.

HIST 1106

The Twentieth Century: A World in Turmoil

- 3 units - semester 2
- 2 lectures, 1 tutorial per week
- Available for Non-Award study
- Restriction: HIST 1105A/B Europe, Empire and the World 1450-1956
- Assessment: 2500 word essay, 1200 word seminar paper, bibliographic exercise

This course sets out to provide a clear thematic account of the twentieth century from the perspective of the twenty-first century. It will introduce students to key events and issues in the global history, politics and culture of the twentieth century. It assumes no prior knowledge. The course serves as a foundation course for a number of interdisciplinary majors within the faculty and also fulfils the needs of students across the University who seek an informed introduction to the key events of the recent past. The course will cover the following themes: the New Imperialism; Total War, New Ideologies (and Revolution); Asia between the Wars; the Inter-War Years in Europe; World War II; the Cold War, the End of Empire; the Post Colonial World; and the Collapse of Communism in Europe. Students will be encouraged and assisted through a mixture of lectures and tutorial workshops as they strive to acquire an overview of the twentieth century and to investigate why it was a 'World in Turmoil'.

Level II

HIST 2004

Australia and the World in the Twentieth Century

- 4 units - semester 2
- 2 hour lecture, 1 tutorial per week
- Prerequisite: 6 units Level I Humanities/Social Sciences
- Restriction: Twentieth Century Australia: Home and Away
- Assessment: 1000-1200 word paper, 3500 word research essay, 2 hour exam with pre-circulated questions

This course puts Australian history in an international and comparative context. It is designed to give students the opportunity to reflect on how perceptions of 'Australia' and 'Australian' have changed over time, and to explore the local and international influences that have shaped and reflected Australian identities in the twentieth century. We will test the assumption that the twentieth century has been marked by increasing globalisation of cultural, economic and political life through Australian case studies that examine our interactions with other parts of the world, particularly the United States and Asia. Key themes of visions of utopia, of the role of regional difference, of religious belief and of the impact of global culture will provide foundations for exploring Australia's place in a changing world.

HIST 2014

Fascism and National Socialism

- 4 units - semester 1
- 2 lectures, 1 seminar per week
- Prerequisite: 6 units Level I Humanities/Social Sciences
- Assessment: essays 80%, seminar attendance & participation 20%

Extreme right wing ideologies of the twentieth century and European movements or parties that claimed to be based on them provide the focus of this course. Broadly it covers the period 1900-1945. Major themes to be discussed in lectures and seminars include political, social and cultural dislocation following World War I; Italian fascism, its appeal and its leader; the distinguishing features of National Socialism in Germany (notably racialism, policies of exclusion and repression); social and cultural life in Fascist Italy and Nazi Germany; debates surrounding the nature of right-wing movements in other European countries; and degrees of

cooperation, collaboration and resistance in occupied Europe. There will also be some discussion of the intellectual and cultural origins of fascism and current analyses of political changes in post-communist Europe.

HIST 2017
History of Indigenous Peoples of Australia A

- 4 units - semester 1
- 2 lectures, 1 tutorial per week
- Prerequisite: 6 units Level I Humanities/Social Sciences
- Assessment: tutorials and essays

A history of Aboriginal/European relations in South Australia from 1836-1911, focussing especially on the nature of colonialism. The issues addressed will include land rights, Aboriginal responses to colonisation, frontier, government policy and administration, missions, Aboriginal engagement in the colonial economy, and European representations of Aboriginal people. Special attention will be given to the analysis of primary source materials, and students will be encouraged to develop an original research project.

HIST 2019
The Origins of Modern America

- 4 units - semester 2
- 2 lectures, 1 tutorial per week
- Prerequisite: 6 units Level I Humanities/Social Sciences
- Assessment: short paper 25%, 2500 word major essay 45%, exam 30%

This course examines the American experience from the colonial period to the outbreak of the Civil War. It considers the role of major events such as the war of independence, the formation of the United States, the assertion of American predominance in its region, and western expansion in the development of American civilisation. It pays particular attention to the dispossession of native Americans and the growth of slavery, and asks why the forces that spread a single power across a whole continent, and enabled America to become a regional and global power, could not prevent the catastrophe of civil war.

HIST 2025
Russia in Crisis and Revolution 1890-2004

- 4 units - semester 2
- 2 lectures, 1 tutorial per week
- Prerequisite: 6 units Level I Humanities/Social Sciences
- Assessment: 3000 word research essay 40%, seminars 20%, final exam 40%

This course will be of topical rather than chronological character. It is framed around an analytic structure that will focus students' attention on the socio-economic and political processes that contributed to the collapse of the Soviet Union in 1991. The elements of the course are: Liberalism vs Marxism; the Revolutionary and the Counter-revolutionary Traditions; the culture of Russian Industrialism: the Russian form of Capitalism, NEP, the system of the 'plan'; the true dissenters: Russian culture under Soviet rule; Revolution as evil; Leninism and Stalinism; War and Peace: the impact of war and the threat of war on Soviet politics; the Soviet Union in its golden age, 1955-1968; political corruption, economic stagnation and society's silent revolt, 1969-1985; Gorbachev and the collapse of the USSR, 1985-1991; Russia's struggle to reinvent itself, 1991-2004.

HIST 2027
The South-East Asian Past

- 4 units - semester 1
- 2 lectures per week, 2 hour tutorial per fortnight
- Prerequisite: 6 units level I Humanities or Social Sciences
- Assessment: essay, take-home exam, tutorial participation

The course offers an opportunity to come to grips with the past history of the states and societies which now comprise Southeast Asia – Indonesia, Malaysia, Thailand, Burma, Vietnam, Cambodia and the Philippines. Not least of the fascinations of that past is the way it is frequently cited as an important explanation of present day Southeast Asia's position as one of the most dynamic parts of the late 20th century world. What is without doubt is that many of the major 'why' questions about contemporary Southeast Asia can only be answered satisfactorily on the basis of a knowledge of the region's past. That past embraces not only several centuries of colonialism but also history of developments in state-building, religion, trade and agriculture ranging back into the first millennium AD: along with a study of Western imperialism in the several parts of early-modern Southeast Asia, the course also focuses on such things as the Khmer empire at Ankor (Cambodia), the powerful states of central Java which created the Borobudur and Prambanen temples and the rich world of sea-borne commerce which characterised the region long before the arrival of European colonisers.

HIST 2030
America, Asia and the Cold War 1945-1990

- 4 units - semester 2
- 2 lectures per week, 2 hour tutorial per fortnight
- Prerequisite: 6 units Level I Humanities/Social Sciences
- Assessment: essay, take-home exam, tutorial participation

The course will provide an introduction to the Cold War, one of the seminal events of the twentieth century, in its American-Asian context. It will provide a crucial historical framework for an informed understanding of current events. Although the Cold War has often been conceived primarily in terms of Europe (Berlin, the Soviet 'threat', etc), its ramifications in America and Asia were at least as far reaching. This course will discuss key aspects of the

Cold War and Anti-Communism in the United States; the (new) triangular relationship that evolved between the United States, China and Japan after 1945, the Korean War, the long Cold War stand-off over Taiwan; Cold War in the hot climate of Indonesia and the destruction of the Communist Party there in the mid-1960s; and America's involvement in and withdrawal from the Vietnam War.

HIST 2032

Colonial Identity and the Legacies of Empire

- 4 units - semester 2
- 2 lectures, 1 tutorial per week
- Prerequisite: 6 units Level I Humanities/Social Sciences
- Assessment: tutorials, essays

This course will explore the role of British and French colonialism in the shaping of ethnic and national identities. What are the bonds that hold communities together, and what are the forces that tear them apart? We will examine not only the ways in which these Imperial powers sought to impose their culture upon subject populations, but also the impact of colonialism on the Imperial powers themselves. To trace the complex forces that have shaped 'colonialism's culture' from the Age of Enlightenment to the era of de-colonisation, we will not just consider political developments, but will study changes in art, literature, and film.

HIST 2040

Ruling the Waves: Britain 1689-1901

- 4 units - semester 1
- 2 lectures, 1 tutorial per week
- Prerequisite: 6 units Level I Humanities/Social Sciences
- Restriction: Britain B: Aristocracy to Democracy
- Assessment: essay, document exercise, short-answer project

This course traces the emergence of England (and from 1707 Britain) as a global superpower, the core nation of a world empire on which the sun barely set. It concentrates on the men and women, the ideas and institutions, which made possible that unprecedented projection of cultural, economic, maritime and military strength during the eighteenth and nineteenth centuries. The cast list features monarchs - including two Queens regnant (Anne and Victoria) and one mad King (George III) - politicians (Walpole, Pitt, Gladstone, Disraeli), soldiers and sailors (Marlborough, Nelson, Kitchener), artists, theorists, intellectuals (Locke, Hogarth, Swift, Burke, Paine, Woolstonecraft, Mill, Darwin, Jowett), and the "common people". It looks at those who challenged or questioned the moral, political, and social legitimacy of the Hanovarian and Victorian state and its imperial role: Jacobites (Bonny Prince Charlie); Roman Catholics and Protestant dissenters; republicans and supporters of the American and French revolutions; the mass abolitionist (anti-slavery) movement; "Little Englanders" and romantic conservatives; working-class radicals and political reformers, trades-unionists and suffragettes. Tutorials will be text-based, using primary sources to explore controversial contemporary issues.

HIST 2042

Medieval Europe: The Crusades to the Black Death

- 4 units - semester 2
- 2 lectures, 1 tutorial per week
- Prerequisite: 6 units Level I Humanities/Social Sciences
- Assessment: essays, exam

A study of the civilisation of Western Christendom c.1100-1350. The conversion of Europe: Feudal and manorial systems. The urban and commercial revolutions of the 12th Century. Models of Christendom: the Papacy and the Holy Roman Empire. The medieval church: popular religious culture. The medieval reformation: monastic revival: The apostolic life, orthodox and heretical. Vernacular culture: epics and romances; Provengal culture; courtly love and the Arthurian legends. The Crusades: pilgrimages; rise and fall of the crusading ideal. The Mediterranean dimension: impact of Arabic and Byzantine worlds on Latin culture. A Twelfth-century Renaissance? Recovery of law and philosophy, rise of scholasticism, monastic v university learning, Gothic art and architecture. Decline: demographic crisis, the Black Death, bastard feudalism, nominalism and mysticism.

Level III

HIST 3004

Australia and the World in the Twentieth Century

- 6 units - semester 2
- 2 hour lecture, 1 tutorial per week
- Restriction: Twentieth Century Australia: Home and Away
- Prerequisite: 8 units Level II Humanities/Social Sciences
- Assessment: 1500-word paper, 5000-word research paper, 2 hour exam with pre-circulated questions

This course puts Australian history in an international and comparative context. It is designed to give students the opportunity to reflect on how perceptions of 'Australia' and 'Australian' have changed over time, and to explore the local and international influences that have shaped and reflected Australian identities in the twentieth century. We will test the assumption that the twentieth century has been marked by increasing globalisation of cultural, economic and political life through Australian case studies that examine our interactions with other parts of the world, particularly the United States and Asia. Key themes of visions of utopia, of the role of regional difference, of religious belief and of the impact of global culture will provide foundations for exploring Australia's place in a changing world.

HIST 3014

Fascism and National Socialism

- 6 units, semester 1
- 2 lectures, 1 seminar per week
- Prerequisite: 8 units Level II Humanities/Social Sciences
- Assessment: research essays 80%, seminar attendance & participation 20%

Extreme right wing ideologies of the twentieth century and the European movements or parties that claimed to be based on them provide the focus of this course. Broadly it covers the period 1900-1945. Major themes to be discussed in lectures and seminars include political, social and cultural dislocation following World War I; Italian fascism, its appeal and its leader; distinguishing features of National Socialism in Germany (notably racialism, policies of exclusion and repression); social and cultural life in Fascist Italy and Nazi Germany; debates surrounding the nature of right-wing movements in other European countries; and degrees of cooperation, collaboration and resistance in occupied Europe. There will also be some discussion of the intellectual and cultural origins of fascism and current analyses of political change in post-communist Europe.

HIST 3017

History of Indigenous Peoples of Australia A

- 6 units - semester 1
- 2 lectures, 1 tutorial per week
- Prerequisite: 8 units Level II Humanities/Social Sciences
- Assessment: tutorials, essays

A history of Aboriginal/European relations in South Australia from 1836-1911, focussing especially on the nature of colonialism. The issues addressed will include land rights, Aboriginal responses to colonisation, frontier, government policy and administration, missions, Aboriginal engagement in the colonial economy, and European representations of Aboriginal people. Special attention will be given to the analysis of primary source materials, and students will be encouraged to develop an original research project.

HIST 3019

The Origins of Modern America

- 6 units - semester 2
- 2 lectures, 1 tutorial per week
- Prerequisite: 8 units Level II Humanities/Social Sciences
- Assessment: short paper 25%, 3,500 major essay 45%, exam 30%

This course examines the American experience from the colonial period to the outbreak of the Civil War. It considers the role of major events such as the war of independence, the formation of the United States, the assertion of American predominance in its region, and western expansion in the development of American civilisation. It pays particular attention to the dispossession of native Americans and the growth of slavery, and asks why the forces that spread a single power across a whole continent, and enabled America to become a regional and global power, could not prevent the catastrophe of civil war.

HIST 3025

Russia in Crisis and Revolution 1890-2004

- 6 units - semester 2
- 2 lectures, 1 tutorial per week
- Prerequisite: 8 units Level II Humanities/Social Sciences
- Assessment: 3500 word research essay 40%, seminars 20%, 1500 word essay dealing specifically with historiography of a major issue in Russian history 20%, final exam 20%

This course will be of topical rather than chronological character. It is framed around an analytic structure that will focus students' attention on the socio-economic and political processes that contributed to the collapse of the Soviet Union in 1991. The elements of the course are: Liberalism vs Marxism; the Revolutionary and the Counter-revolutionary Traditions; the culture of Russian Industrialism: the Russian form of Capitalism, NEP, the system of the 'plan'; the true dissenters: Russian culture under Soviet rule; Revolution as evil; Leninism and Stalinism; War and Peace: the impact of war and the threat of war on Soviet politics; The Soviet Union in its golden age, 1955-1968; Political corruption, economic stagnation and society's silent revolt, 1969-1985; Gorbachev and the collapse of the USSR, 1985-1991; Russia's struggle to reinvent itself, 1991-2004.

HIST 3027

The South-East Asian Past

- 6 units - semester 1
- 2 lectures per week, 2 hour tutorial per fortnight
- Prerequisite: 8 units Level II Humanities or Social Sciences
- Assessment: essay, take-home exam, tutorial participation

The course offers an opportunity to come to grips with the past history of the states and societies which now comprise Southeast Asia – Indonesia, Malaysia, Thailand, Burma, Vietnam, Cambodia and the Philippines. Not least of the fascinations of that past is the way it is frequently cited as an important explanation of present day Southeast Asia's position as one of the most dynamic parts of the late 20th century world. What is without doubt is that many of the major 'why' questions about contemporary Southeast Asia can only be answered satisfactorily on the basis of a knowledge of the region's past. That past embraces not only several centuries of colonialism but also history of developments in state-building, religion, trade and agriculture ranging back into the first millennium AD: along with a study of Western imperialism in the several parts of early-modern Southeast Asia, The course also focuses on such things as the Khmer empire at Ankor (Cambodia), the powerful

states of central Java which created the Borobudur and Prambanen temples and the rich world of sea-borne commerce which characterised the region long before the arrival of European colonisers.

HIST 3030
America, Asia and the Cold War 1945-1990

- 6 units - semester 2
- 2 lectures per week, 1 two hour tutorial per fortnight
- Prerequisite: 8 units Level II Humanities/Social Sciences
- Assessment: essay, take-home exam, tutorial participation

The course will provide an introduction to the Cold War, one of the seminal events of the twentieth century, in its American-Asian context. It will provide a crucial historical framework for an informed understanding of current events. Although the Cold War has often been conceived primarily in terms of Europe (Berlin, the Soviet 'threat', etc), its ramifications in America and Asia were at least as far reaching. This course will discuss key aspects of the Cold War and Anti-Communism in the United States; the (new) triangular relationship that evolved between the United States, China and Japan after 1945, the Korean War, the long Cold War stand-off over Taiwan; Cold War in the hot climate of Indonesia and the destruction of the Communist Party there in the mid-1960s; and America's involvement in and withdrawal from the Vietnam War.

HIST 3032
Colonial Identity and the Legacies of Empire

- 6 units - semester 2
- 2 lectures, 1 tutorial per week
- Prerequisite: 8 units Level II Humanities/Social Sciences
- Assessment: tutorials, essays

This course will explore the role of British and French colonialism in the shaping of ethnic and national identities. What are the bonds that hold communities together, and what are the forces that tear them apart? We will examine not only the ways in which these Imperial powers sought to impose their culture upon subject populations, but also the impact of colonialism on the Imperial powers themselves. To trace the complex forces that have shaped 'colonialism's culture' from the Age of Enlightenment to the era of de-colonisation, we will not just consider political developments, but will study changes in art, literature, and film.

HIST 3040
Ruling the Waves: Britain 1689-1901

- 6 units - semester 1
- 2 lectures, 1 tutorial per week
- Prerequisite: 8 units Level II Humanities/Social Sciences
- Restriction: Britain B: Aristocracy to Democracy II/III
- Assessment: essay, document exercise, short-answer project

This course traces the emergence of England (and from 1707 Britain) as a global superpower, the core nation of a world empire on which the sun barely set. It concentrates on the men and women, the ideas and institutions, which made possible that unprecedented projection of cultural, economic, maritime and military strength during the eighteenth and nineteenth centuries. The cast list features monarchs - including two Queens regnant (Anne and Victoria) and one mad King (George III) - politicians (Walpole, Pitt, Gladstone, Disraeli), soldiers and sailors (Marlborough, Nelson, Kitchener), artists, theorists, intellectuals (Locke, Hogarth, Swift, Burke, Paine, Woolstonecraft, Mill, Darwin, Jowett), and the "common people". It looks at those who challenged or questioned the moral, political, and social legitimacy of the Hanovarian and Victorian state and its imperial role: Jacobites (Bonny Prince Charlie); Roman Catholics and Protestant dissenters; republicans and supporters of the American and French revolutions; the mass abolitionist (anti-slavery) movement; "Little Englanders" and romantic conservatives; working-class radicals and political reformers, trades-unionists and suffragettes. Tutorials will be text-based, using primary sources to explore controversial contemporary issues.

HIST 3042
Medieval Europe: The Crusades to the Black Death

- 6 units - semester 2
- 2 lectures, 1 tutorial per week
- Prerequisite: 8 units Level II Humanities/Social Sciences
- Assessment: essays, exam

A study of the civilisation of Western Christendom c.1100-1350. The conversion of Europe: Feudal and manorial systems. The urban and commercial revolutions of the 12th Century. Models of Christendom: the Papacy and the Holy Roman Empire. The medieval church: popular religious culture. The medieval reformation: monastic revival: The apostolic life, orthodox and heretical. Vernacular culture: epics and romances; Provengal culture; courtly love and the Arthurian legends. The Crusades: pilgrimages; rise and fall of the crusading ideal. The Mediterranean dimension: impact of Arabic and Byzantine worlds on Latin culture. A Twelfth-century Renaissance? Recovery of law and philosophy, rise of scholasticism, monastic v university learning, Gothic art and architecture. Decline: demographic crisis, the Black Death, bastard feudalism, nominalism and mysticism.

Honours

HIST 4401
Honours History

- 24 units - full year
- Prerequisite: UG degree, credit average in courses contributing to a major in History or equivalent approved by Head of Discipline.
- Students wishing to take Honours in History should consult the Honours Coordinator prior to commencing Level II to ensure appropriate course choices are made in preparation for Honours

- Assessment: course work (2 topics) usually offered in semester 1, 15000 word thesis written in semester 2. (Lists of special courses and thesis supervisors can be found in the Honours handbook).

Application forms for admission to honours and a detailed brochure on the course are available from the school office; students with questions about the course or their eligibility should consult the Honours Coordinator.

In some circumstances Honours in History can be studied part-time or can be combined with Honours in another discipline.

Horticulture

Level III

HORTICUL 3000WT

Production Horticulture

- 3 units - semester 2
- even years only
- 2 lectures, 4 hours practicals a week (pracs may be replaced by tour)
- Assumed Knowledge: PLANT SC 2001WT Agricultural Botany or APP ECOL 1003RW Biology of Plants and Animals
- Assessment: exam 70%; assignments 30%

The course examines production of commercial fruit, vegetable and nut crops including limits to production and characteristics for cultivars, management and irrigation, harvesting and marketing. Crops considered include citrus, apple and pears, grape vines, soft vines (berries), stone fruits, almond, walnut, macadamia, pecan, pistachio, and the tropical fruit, pineapple, banana, mango, lychee and avocado. Vegetables include tomato, potato, brassicas, cucurbits, lettuce and the onion group.

HORTICUL 3001WT

Horticulture Systems

- 3 units - semester 1
- 2 lectures, 4 hours practicals per week
- Assumed Knowledge: PLANT SC 2001WT Agricultural Botany or APP ECOL 1003RW Biology of Plants and Animals
- Assessment: mid-semester exam, final exam, assignments

The importance of horticulture to the community, sustainability and economic value, horticultural production areas and environmental factors involved. Fruit crop growth and its control using cultural and chemical methods. Horticultural propagation methods. The basis of production systems which include horticulture, and systems which combine different types of horticulture. Plant improvement and breeding. The significance of pollination to horticulture.

HORTICUL 3004WA

HORTICUL 3004WT

Olive Production and Marketing

- 3 units - mid-year break
- Assessment: exams 65%; practical reports 35%

This course examines production aspects of olive oil and pickling fruit. Characteristic requirements regarding cultivar selection, climate, soils and location; growing practices plus management of irrigation, pest and diseases; development budget financial planning; harvesting and oil quality assessment; marketing of olives including market evaluation, market plan development in product, pricing, distribution and marketplace decisions. Students are required to participate in field visits to growing/marketing enterprises as arranged.

HORTICUL 3032WT

Research Project: Wine and Horticulture

- 3 units - second half of semester 1 & semester 2
- 10 hours per week for 1 semester (or equivalent) on project
- Prerequisite: two Level III courses offered by Discipline
- Corequisite: additional Level III course offered by Discipline
- Assessment: literature review, research proposal, seminar, poster presentation

The course is undertaken during the 4th year of the program under the supervision of a staff member in the Discipline and involves the preparation of a detailed literature review and research proposal on a mutually agreed topic area. Students wishing to undertake a research project should consult the Course Coordinator before the beginning of 4th year.

HORTICUL 3042WT

Postharvest Horticulture and Marketing

- 3 units - semester 2
- odd years only
- 2 lectures, 4 hours practicals or equivalent per week
- Assumed Knowledge: PLANT SC 2001WT Agricultural Botany or APP ECOL 1003RW Biology of Plants and Animals
- Assessment: exam 60%, assignment 40%

Postharvest system, fruit morphology and structure, fruit development, respiration and postharvest hormones; postharvest temperature, water and gas stress, postharvest light, irradiation, gravity, mechanical pathogenic and physiological stresses; harvesting, preparation and packaging technology, cooling technology and storage and transport technology; nutrition and food safety; processing and waste minimisation; domestic and export marketing, wholesaling and retailing. The course normally includes visits to horticulture enterprises.

HORTICUL 3047WT

Lifestyle Horticulture

- 3 units - semester 1
- even years only
- 2 lectures, 4 hour practical per week
- Assumed Knowledge: PLANT SC 2001WT Agricultural Botany or APP ECOL 1003RW Biology of Plants and Animals
- Restriction: HORTICUL 3047WT Ornamental Horticulture (9838)
- Assessment: final exam, two assignments

Garden history: English, French, Italian, Chinese, Japanese, Islamic, dry-land garden and fire safety, management of parks and gardens; landscaping: design, planting principles, maintenance throughout the year; turf grass; orchard and vineyard: design, establishment, management throughout the year, crop utilization, organic production, vegetable and herb gardens: design, plant selection and utilisation, management throughout the year; protected culture of ornamental plants, flowers: plants, production management, pot plants: plants, production management, flower care: postharvest floriculture.

Honours

HORTICUL 4000WT

Honours Wine and Horticulture (B.Ag.Sc.)

- 12 units - full year
- Prerequisite: credits in two Level III courses offered by the Discipline
- Corequisite: two additional specified Level III courses offered by the Discipline
- Assessment: procedures discussed at commencement of study

Intending candidates should consult the Head of Discipline and potential supervisors before October of Year III, and should be prepared to commence studies in the Discipline on or about 1 February or July. After consultation, each candidate will be assigned a research project which will be carried out under supervision. The results will be presented in a dissertation at the end of the course. A candidate may also be required to prepare an essay and give a seminar.

HORTICUL 4003WT

Honours Wine and Horticulture (B.Sc.)

- 24 units - full year
- This course is available under the provisions of Academic Program Rule 5.7.2
- Prerequisite: credit or higher pass in appropriate Level III courses offered by a Science Discipline
- Corequisite: 2 Level III courses offered by the Discipline of Wine and Horticulture -at the discretion of Head of Discipline, one may be a relevant course taught by another discipline

Intending candidates must consult the Honours Coordinator and potential supervisors during October of the final year of studies for the degree of Bachelor of Science, and should be prepared to commence studies on or about 1 February. After consultation, each candidate must obtain a letter of acceptance from the Head of the Discipline of Wine and Horticulture. A research project will then be assigned which will be carried out under supervision. The results will be presented in a seminar and research report at the end of the course. A candidate may also be required to prepare an essay, attend lectures and pass an exam.

HORTICUL 4005WT

Honours Horticultural Science (B.Ag.Sc.)

- 12 units - full year
- 15 hours per week, at least 30 hours per week during February and other vacations
- Prerequisite: credit or higher in at least two level III courses approved by the Head of Discipline
- Assessment: coursework, essays or other assignments not part of research project 40%, research project - research proposal, seminar, thesis and viva voce 60%

Substantial research project of the students choosing on a topic acceptable to the Discipline of Wine and Horticulture as well as coursework, essays or other assignments deemed appropriate to each students Honours program.

Intending candidates should consult the Head of Discipline, the Discipline Honours Coordinator and potential supervisors as early as possible and, in any case, no later than December 1 preceding the start of the Honours program. Research topics will be decided in December/January and full-time work must begin no later than February 1 (July/August for mid-year intake).

HORTICUL 4006WT

Honours Wine and Horticulture (BAg)

- 24 units - full year
- Prerequisite: credit or higher in at least 2 Level III courses approved by the Head of Discipline
- Assessment: coursework, essays or other assignments not forming part of the research project 40%, research proposal, seminar, thesis and viva voce 60%

This course comprises a substantial research project of the students choosing on a topic acceptable to the Discipline of Wine and Horticulture as well as coursework, essays or other assignments deemed appropriate to each student's Honours program.

Intending candidates should consult the Head of Discipline, the Discipline Honours coordinator and potential supervisors as early as possible and, in any case, no later than December 1 immediately preceding the start of the Honours program. Research topics will be decided in December/January and full-time work must begin no later than February 1.

Indonesian

Level I

INDO 1001

Indonesian Introductory Part 1

- 3 units - semester 1
- 5 hours per week
- Assessment: oral tests, Culture and Society component assessed by tutorial papers

This course presumes little or no previous knowledge of the Indonesian language. The course aims to develop basic communicative skills required for a wide range of everyday Indonesian social contexts. A culture and society component of the course aims to develop a broad understanding of contemporary Indonesian culture and society, necessary for successful communication and cross-cultural understanding.

INDO 1002

Indonesian Introductory Part 2

- 3 units - semester 2
- 5 hours per week
- Prerequisite: INDO 1001 Indonesian Introductory Part 1 or permission of Convenor
- Assessment: oral tests, Culture and Society component assessed by tutorial papers

This course builds on the language skills acquired in Indonesian Introductory Part 1. The emphasis of the course is on communication in a wide range of normally encountered Indonesian social situations and the further development of an understanding of Indonesian culture and society.

INDO 1011

Indonesian Introductory A Part 1

- 3 units - semester 1
- 4 hours per week
- Prerequisite: SACE Stage 2 Indonesian (15 or better) or permission of Convenor
- Assessment: written, oral tests

The course aims to develop listening, speaking and writing skills in Indonesian and to extend students' understanding of the structure of Indonesian through exercises in grammar and translation. Two hours per week are devoted to translation and grammar and three hours per week to small group tutorials, which aim to develop speaking, listening and writing skills in Indonesian.

INDO 1012

Indonesian Introductory A Part 2

- 3 units - semester 2
- 4 hours per week
- Prerequisite: INDO 1011 Indonesian Introductory A Part I or permission of Convenor
- Assessment: written, oral tests

The course aims to develop listening, speaking and writing skills in Indonesian and to extend students' understanding of the structure of Indonesian through exercises in grammar and translation. Two hours per week are devoted to translation and grammar and three hours per week to small group tutorials, which aim to develop speaking, listening and writing skills in Indonesian.

Level II

INDO 2001

Indonesian Intermediate Part 1

- 4 units - semester 1
- 5 hours per week
- Prerequisite: INDO 1002 Indonesian Introductory Part 2 or permission of Convenor
- Assessment: written, oral tests

The course aims to develop communicative skills and to extend students' understanding of language structure in modern Indonesian. Two hours per week are devoted to translation and grammar. Three hours per week are devoted to small group tutorials which aim to develop speaking, listening and writing skills in Indonesian.

INDO 2002

Indonesian Intermediate Part 2

- 4 units - semester 2
- 5 hours per week
- Prerequisite: INDO 2001 Indonesian Intermediate Part 1 or permission of Convenor
- Assessment: written, oral tests

The course aims to develop communicative skills and to extend students' understanding of language structure in modern Indonesian. Two hours per week are devoted to translation and grammar. Three hours per week are devoted to small group tutorials which aim to develop speaking, listening and writing skills in Indonesian.

INDO 2011

Indonesian Intermediate A Part 1

- 4 units - semester 1
- 3 lectures, 1 tutorial per week
- Prerequisite: INDO 1012 Indonesian Introductory A Part 2 or permission of Convenor
- Assessment: written, oral tests

This course focuses on developing and extending oral and written skills in Indonesian through a variety of distinct but interrelated activities and approaches; reading, translation, discussion and writing in Indonesian based on Indonesian source materials relating to the social sciences. Intensive Indonesian comprehension and oral presentation of a variety of historical and current affairs sources in both audio and video format will be undertaken.

INDO 2012

Indonesian Intermediate A Part 2

- 4 units - semester 2
- 3 lectures, 1 tutorial per week
- Prerequisite: INDO 2011 Indonesian Intermediate A Part 1 or permission of the Convenor
- Assessment: written, oral tests

This course focuses on developing and extending oral and written skills in Indonesian through a variety of distinct but interrelated activities and approaches; reading, translation, discussion and writing in Indonesian based on Indonesian source materials relating to the social sciences. Intensive Indonesian comprehension and oral presentation of a variety of historical and current affairs sources in both audio and video format will be undertaken.

Level III

INDO 3001

Indonesian Advanced Part 1

- 6 units - semester 1
- 3 lectures, 1 tutorial per week
- Prerequisite: Indonesian language at Level II or permission of Convenor
- Assessment: written, oral tests

This course focuses on developing and extending oral and written skills in Indonesian through a variety of distinct but interrelated activities and approaches; reading, translation, discussion and writing in Indonesian based on Indonesian source materials relating to the social sciences. Intensive Indonesian comprehension and oral presentation of a variety of historical, cultural and current affairs sources in both audio and visual format will be undertaken.

INDO 3002

Indonesian Advanced Part 2

- 6 units - semester 2
- 3 lectures, 1 tutorial per week
- Prerequisite: INDO 3001 Indonesian Advanced Part 1 or permission of the Convenor
- Assessment: written, oral tests

This course focuses on developing and extending oral and written skills in Indonesian through a variety of distinct but interrelated activities and approaches; reading, translation, discussion and writing in Indonesian based on Indonesian source materials relating to the social sciences. Intensive Indonesian comprehension and oral presentation of a variety of historical, cultural and current affairs sources in both audio and visual format will be undertaken.

INDO 3011

Indonesian Advanced A Part 1

- 2 hour seminar per week, 2 hour language tutorial per week
- Prerequisite: Indonesian Intermediate A Part 2 or permission of the Convenor
- Assessment: written, oral tests

This course aims to extend student's knowledge of modern Indonesian usage through a study of language variation in written and spoken texts. Texts for study are selected from newspaper and magazine articles, as well as films and novels. Classes will be conducted in Indonesian.

INDO 3012

Indonesian Advanced A Part 2

- 2 hour seminar per week, 2 hour language tutorial per week
- Prerequisite: Indonesian Advanced A Part 1 or permission of the Convenor
- Assessment: written, oral tests

This course aims to consolidate and develop more advanced language skills in reading, writing, listening and speaking. The topic attempts to integrate general Indonesian studies within the study of language. Students will readily understand newspaper and magazine reports of significant economic, political, religious or unilateral interest relevant to contemporary Indonesia.

Information Systems

Level I

ECOMMRCE 1000

Information Systems I

- 3 units - semester 1
- 2 lectures, 1 tutorial per week
- Available for Non-Award study
- Quota may apply
- Assumed Knowledge: basic accounting concepts - students without this basic knowledge are advised to consider enrolling concurrently in ACCTING 1002 Accounting for Decision Makers I
- Restriction: not to be counted with either COMP SCI 1004 Computer Literacy I or COMP SCI 1001 Computer Applications I or PURE MTH 1002 Quantitative Methods Using Computers I
- Assessment: exam, assignments as determined at first lecture

Introduction to information systems and their role in organisations; computer hardware (PC and multi-user), system and application software, data and people; end-user application software (spreadsheets and graphics, database management, accounting packages); networking and data communication; information systems for business operations, decision support and strategic advantage; introduction to E-Business and E-Commerce; principles of information system development; trends, issues and concerns.

Level II

ECOMMRCE 2003

Information Systems II

- 4 units - not offered in 2005
- 2 lectures, 1 tutorial per week
- Assumed Knowledge: ECOMMRCE 1000 Information Systems I
- Assessment: exam, assignments as determined at first lecture

Development of information systems including analysis, evaluation, design, implementation, management and user responsibilities; database concepts, architectures, design and administration; object-oriented concepts; data quality and controls; prototyping.

ECOMMRCE 2004

Internet Commerce II

- 4 units - semester 2
- 2 lectures, 1 tutorial per week
- Available for Non-Award study
- Assumed Knowledge: fundamentals of the World Wide Web, information system development & relational database management systems (eg Microsoft Access) as taught in Information Systems I - students without this background are advised not to enrol in this course
- Assessment: exam, assignments as determined at first lecture

An examination of how businesses use the World Wide Web to interact with consumers. Topics include alternative business models, current Australian practices, commercial benefits and costs, design, construction and management of a web site, integration with a database and /or accounting system, HTML and Java Script languages, project management, payment systems, security, international considerations, evaluation and maintenance of a web site as part of a marketing plan.

Level III

ECOMMRCE 3016

Electronic Commerce III

- 4 units - semester 1
- 2 lectures, 1 tutorial per week
- Available for Non-Award study
- Assumed Knowledge: fundamentals of the World Wide Web, information system development, relational database design & computerised accounting as taught in Information Systems I - students without this background are advised not to enrol in this course
- Assessment: exam, assignments as determined at first lecture

An examination of how businesses use computer communications to interact with other organisations including suppliers, customers, financial institutions and government agencies. Topics include communications technologies, private and public networks, electronic data interchange, supply-chain management, current Australian practices, strategic planning for information technology, relationships with other businesses and departments, integration with internal systems, Visual Basic for Applications (VBA), enterprise resource planning software, implementation issues, firewalls and security.

International Studies

Level II

INST 2001

International Studies (core topic)

- 4 units - semester 2
- 2 lectures, 1 tutorial per week
- Prerequisite: 6 units Level I Humanities/Social Sciences
- Assessment: 1500-2000 word essay 30%, 2500-3000 word essay 50%, tutorial participation 10%, multiple choice test (on lecture content) 10%

The study of the international system is one of perceptions and perspectives. Indeed, the very depiction of the world as a single international system is a facet of perspective. Should we instead be describing the international environment as one of at times competing, at times blending national systems, cultural 'networks' bound by a single global economy, with differing economic orders creating a faceted (and subtly differentiated) global economic structure? The course tests these forms of perception by examining holistic approaches to looking at the world ('global systems' and 'World Orders' etc.), and then turning to perspectives from a number of individual states and groups of states (focusing mainly on Europe, Asia and the Middle East). In so doing, the course tests our ability to generalise in looking at the world. The core lectures will provide a theoretical/historical backdrop, against which a number of specialist guest lecturers will depict the 'politics of seeing' in International Studies.

Honours

INST 4401

Honours International Studies

- 24 units - full year
- Prerequisite: UG degree, credit average in courses contributing to major in International Studies
- Students wishing to take Honours in International Studies should consult the Honours Coordinator
- Assessment: coursework (2 seminars) 5000-6000 words each 25%, 15000- 18000 word thesis 50%

There is a preliminary Honours meeting in November of each year where the Honours Handbook and applications will be available. Any questions regarding Honours are answered at this meeting. Please check Politics noticeboard for date of meeting, which will also be announced in lectures.

In some circumstances Honours International Studies can be studied part-time over two years or can be combined with Honours in another discipline.

Italian

Level I

ITAL 1001

Italian I Part 1

- 3 units - semester 1
- 4 hours per week
- Assessment: periodic written & oral tests, class participation, written assignments

The course consists of classes divided according to linguistic competence at the point of entry. Emphasis is placed on developing the skills of comprehension and active use of spoken and written Italian, in the context of language goals that are realistic and rewarding for each student. The program, which presupposes regular attendance at all scheduled hours, includes both lecture-type instruction and tutorials where students are expected to participate interactively in the language-learning process. Advanced students study a selection of Italian texts related to Italian culture and society.

ITAL 1002

Italian I Part 2

- 3 units - semester 2
- 4 hours per week
- Prerequisite: ITAL 1001 Italian I Part 1
- Assessment: periodic written & oral tests, class participation, written assignments, final written exam in language component

The course develops further the basic language skills acquired in first semester and extends the students' proficiency in both spoken and written Italian. The topic consists of classes divided according to levels of linguistic competence, where emphasis is placed on the continuing development of the skills of comprehension and active use of spoken and written Italian in the context of realistic and rewarding language goals. The program presupposes regular attendance at all scheduled classes, including both lecture-type instruction and interactive language tutorials. Advanced students study aspects of modern Italy.

Level II

ITAL 2001

Italian II Part 1

- 4 units - semester 1
- 4-5 hours per week
- Prerequisite: ITAL 1002 Italian I Part 2
- Assessment: periodic written & oral tests, class participation, written assignments

The course is designed to strengthen and extend the students' linguistic proficiency in the four basic skills (listening, speaking, reading and writing) acquired at level I, and to provide further study in the area of Italian society and culture. The language component consists of classes divided according to levels of linguistic competence, where particular emphasis is placed on oral-aural comprehension and on the use of spoken and written Italian in the context of language goals that for each student are realistic and rewarding. In the culture component (2 hours per week) students consider issues relating to contemporary Italian culture and society as illustrated in a selection of Italian texts.

ITAL 2002
Italian II Part 2

- 4 units - semester 2
- 4-5 hours per week
- Prerequisite: ITAL 2001 Italian II Part 1
- Assessment: periodic written & oral tests, class participation, written assignments, final written exam in language component

The course continues the development of communication skills, both spoken and written, through the progressive study of more advanced grammatical structures in the context of conversation practice, composition, and other language activities. Between 1 and 2 hours are devoted to the culture component, and a further 3 to 4 hours are devoted to language in separate streams divided according to linguistic competence. These classes are programmed for interaction within the group. The culture component consists of the study of issues relating to contemporary Italian culture and society as illustrated in a selection of Italian texts.

Level III

ITAL 3001
Italian III Part 1

- 6 units - semester 1
- 4-5 hours per week
- Prerequisite: ITAL 2002 Italian II Part 2
- Assessment: periodic written & oral tests, class participation, written assignments

The course is designed to strengthen and extend the students' proficiency in the four macro skills (written/oral comprehension and communication) acquired at level II, and to provide the opportunity for the study of specific aspects of Italian society and culture. The language classes are divided according to the students' linguistic competence and cover advanced Italian grammar, particularly syntax, commensurate with this level. The culture component consists of a monographic study in the area of Italian society, language or literature (details available at the time of enrolment). In lieu of this monographic study available at the University of Adelaide, students may take the culture segment offered in first semester on the Flinders University campus.

ITAL 3002
Italian III Part 2

- 6 units - semester 2
- 4-5 hours per week
- Prerequisite: ITAL 3001 Italian III Part 1
- Assessment: periodic written & oral tests, class participation, written assignments, final written exam in language component.

The course is designed to extend further the students' proficiency in the four macro skills (written/oral comprehension and communication) acquired in the first semester of level III, and to provide the opportunity for the close study of an aspect of Italian society and culture. The language classes are divided according to the students' linguistic competence and develop further advanced aspects of Italian grammar, particularly syntax, commensurate with this level. The culture component consists of a monographic study in an area of Italian society, language or literature (details available at the end of first semester). In lieu of this monographic study available at the University of Adelaide, students may take the culture segment offered in second semester on the Flinders University campus.

Japanese

Level I

JAPN 1001
Japanese IA

- 3 units (4.5 Flinders units) - semester 1
- 5 hours and 1 hour in language laboratory per week
- Flinders students should enrol in JAPN 1001FL
- Available for Non-Award study
- No previous knowledge of Japanese required
- Assessment: continuous -small tests and assignments, exam

This introductory course is designed to teach the basic grammar and vocabulary of modern spoken Japanese, together with the writing system, Hiragana and Katakana and the introduction of basic Kanji. Emphasis will be placed on promoting students' communication skills in both spoken and written Japanese through practical tutorials.

JAPN 1002
Japanese IB

- 3 units (4.5 Flinders units) - semester 2
- 5 hours and 1 hour in language laboratory per week
- Flinders students should enrol in JAPN 1002FL
- Available for Non-Award study
- Prerequisite: JAPN 1001 Japanese IA (Pass Div 1) or equivalent
- Assessment: continuous - small tests , assignments, exam

This course will enable students to broaden the skills in basic Japanese language acquired in JAPN 1001 Japanese IA, in order to provide a solid foundation at the introductory level in both spoken and written Japanese.

JAPN 1011
Japanese ISA

- 3 units (4.5 Flinders units) - semester 1
- 5 hours and 1 hour in language laboratory per week
- Flinders students should enrol in JAPN 1011FL
- Available for Non-Award study
- Prerequisite: Continuers Japanese (at 15 or better) or equivalent
- Assessment: semester work, class tests, exams

This course consolidates a foundation in the basic grammar and vocabulary of modern Japanese. Throughout the course, conversational skills will be reinforced and at the same time increased emphasis will be placed on developing reading and writing skills using a substantial number of characters and their combinations.

JAPN 1012
Japanese ISB

- 3 units (4.5 Flinders units) - semester 2
- 5 hours and 1 hour in language laboratory per week
- Flinders students should enrol in JAPN 1012FL
- Available for Non-Award study
- Prerequisite: JAPN 1011 Japanese ISA (Pass Div 1) or equivalent
- Assessment: semester work, class tests, exams

This course consolidates a foundation in the basic grammar and vocabulary of modern Japanese. Throughout the course, conversational skills will be reinforced and at the same time increased emphasis will be placed on developing reading and writing skills using a substantial number of characters and their combinations.

Level II

JAPN 2001
Japanese IIA

- 4 units (6 Flinders units) - semester 1
- Flinders students should enrol in JAPN 2001FL
- 5 hours and 1 hour in language laboratory per week
- Prerequisite: JAPN 1002 Japanese IB (Pass Div 1) or equivalent
- Assessment: semester work, class tests, exams

This course consolidates a foundation in the basic grammar and vocabulary of modern Japanese. Throughout the course, conversational skills will be reinforced and at the same time increased emphasis will be placed on developing reading and writing skills using a substantial number of characters and their combinations.

JAPN 2002
Japanese IIB

- 4 units (6 Flinders units) - semester 2
- Flinders students should enrol in JAPN 2002FL
- 5 hours and 1 hour in language laboratory per week
- Prerequisite: JAPN 2001 Japanese IIA (Pass Div 1) or equivalent
- Assessment: semester work, class tests, exams

This course completes the study of elementary grammar and expands knowledge of vocabulary of modern Japanese. Throughout the course, conversational competence will be reinforced and at the same time increased emphasis will be placed on developing reading and writing skills using a substantial number of characters and their combinations.

JAPN 2011
Japanese IISA

- 4 units (6 Flinders units) - semester 1
- 5 hours per week
- Prerequisite: JAPN 1012 Japanese ISB (Pass Div 1) or equivalent
- Assessment: continuous, exam

This course consolidates the language skills of lower intermediate level Japanese. Emphasis is placed on building vocabulary and widening the understanding of grammatical structures so that students are able to express their ideas both in speech and writing.

JAPN 2012
Japanese IISB

- 4 units (6 Flinders units) - semester 2
- 5 hours per week
- Prerequisite: JAPN 2011 Japanese IISA (Pass Div 1) or equivalent
- Assessment: continuous, exam

This course develops the language skills of Japanese at an upper intermediate level. Emphasis is placed on building reading and speaking skills towards an advanced level.

Level III

JAPN 3001
Japanese IIIA

- 6 units (also 6 Flinders units) - semester 1
- Flinders students should enrol in JAPN 3001FL
- 5 hours per week
- Prerequisite: JAPN 2002 Japanese IIB (Pass Div 1) or equivalent
- Assessment: continuous, exam

This course consolidates the language skills of lower intermediate level Japanese. Emphasis is placed on building vocabulary and widening the understanding of grammatical structures so that students are able to express their ideas both in speech and writing.

JAPN 3002
Japanese IIIB

- 6 units (also 6 Flinders units) - semester 2
- Flinders students should enrol in JAPN 3002FL
- 5 hours per week
- Prerequisite: JAPN 3001 Japanese IIIA (Pass Div 1) or equivalent
- Assessment: continuous, exam

This course develops the language skills of Japanese at an upper intermediate level. Emphasis is placed on building reading and speaking skills towards an advanced level.

JAPN 3011
Advanced Japanese A

- 6 units (also 6 Flinders units) - semester 1
- Flinders students should enrol in JAPN 3011FL
- 3 hours and 1 hour unsupervised language laboratory session
- Prerequisite: JAPN 2012 Japanese IISB (Pass Div 1) or equivalent
- Assessment: combination of tests, essays, oral presentation

The course aims to equip students with both linguistic and research skills necessary for conducting basic research projects using Japanese language sources. A wide range of social issues crucial to understanding Japanese society and culture will be introduced. The course prepares students to become independent learners of Japanese for further research in Japanese studies.

JAPN 3012
Advanced Japanese B

- 6 units (also 6 Flinders units) - semester 2
- Flinders students should enrol in JAPN 3012FL
- 3 hours and 1 hour unsupervised language laboratory session
- Prerequisite: JAPN 3011 Advanced Japanese A (Pass Div 1) or equivalent
- Assessment: combination of tests, essays and oral presentation

This course is a continuation and extension of the material introduced in JAPN3011 Advanced Japanese A.

Honours

JAPN 4401
Honours Japanese Studies

- 24 units - full year
- Prerequisite: UG degree with credit average or better in courses contributing to major in Japanese or equiv. approved by Head of Discipline
- Students wishing to take Honours Japanese Studies should consult the Honours Coordinator prior to commencing Level II to ensure appropriate course choices are made in preparation for Honours
- Assessment: course work 50%, thesis 50%

Entry to Honours is subject to the approval of the Honours Committee of the Centre. For further details please consult the Honours Handbook.

Labour Studies

Level II

LBST 2016
Youth, Work and Other Catastrophes

- 4 units - semester 1
- 3 contact hours per week
- Prerequisite: 6 units Level I Humanities/Social Sciences
- Assessment: essay 20%, seminar participation 20%, group presentation 20%, research project 40%

This course examines political, sociological and economic approaches to youth; the changing relationship and experiences of young people and social institutions (the labour market, the state, education, the family and the law) and young people's experience of and involvement with the state through labour market and key social policy measures. This course consists of three interrelated modules. The first module examines the development and shaping of young people's sense of self and identity within the context of formative influences such as class, gender, race, sexuality and ethnicity. The second module focuses on how young people are constructed as a category in public policy through discussions of contemporary challenges facing young people such as 'workplace citizenship', employment, education and training, youth homelessness and the law. The third module is run concurrently in modules one and two and will involve students working on a team-based research project involving policy analysis and group presentation.

Level III

LBST 3016

Youth, Work and Other Catastrophes

- 6 units- semester 1
- 3 contact hours per week
- Prerequisite: 8 units Level II Humanities/Social Sciences
- Assessment: essay 20%, seminar participation 20%, group presentation 20%, research project 40%

This course examines political, sociological and economic approaches to youth; the changing relationship and experiences of young people and social institutions (the labour market, the state, education, the family and the law) and young people's experience of and involvement with the state through labour market and key social policy measures. This course consists of three interrelated modules. The first module examines the development and shaping of young people's sense of self and identity within the context of formative influences such as class, gender, race, sexuality and ethnicity. The second module focuses on how young people are constructed as a category in public policy through discussions of contemporary challenges facing young people such as 'workplace citizenship', employment, education and training, youth homelessness and the law. The third module is run concurrently in modules one and two and will involve students working on a team-based research project involving policy analysis and group presentation.

Honours

LBST 4401

Honours Labour Studies

- 24 units - full year
- Prerequisite: UG degree, minimum credit average in courses contributing to major in Labour Studies or equivalent approved by the Convenor of Discipline of Labour Studies
- Students wishing to take Honours Labour Studies should consult the Honours Coordinator prior to commencing level III to ensure appropriate course choices are made in preparation for Honours
- Assessment: coursework (2 seminar topics with written work of approx. 7500 words 25% each), 15000-20000 word thesis 50%

The Labour Studies Honours program consists of two seminar courses and an Honours thesis of 15000-20000 words. A list of Honours seminar courses to be offered is available from the Honours Coordinator. We encourage students who are eligible for honours in more than one discipline to consider a joint Honours program with the approval of the respective Honours Coordinators.

In some circumstances Honours Labour Studies can be studied part-time over two years.

Landscape Architecture

LARCH 4002

Landscape Architecture Studio ID

- 6 units - semester 2
- Up to 18 hours lectures/tutorials/workshops/field trip; contact hours vary week to week
- Eligibility: B.L.Arch students only
- Assumed Knowledge: Design at undergraduate degree level.
- Restriction: ARCH 4026 Architecture/Landscape Architecture Studio IE
- Assessment: assignments, projects - may include written, verbal, & graphic (2 & 3 dimensional) communication

A project-based learning program integrating architectural and landscape design and digital media technologies that will typically address a medium to large sized design and planning topic in a rural setting possessing particular cultural constraints, relationships and landscape nuances different from that commonly experienced in the South Australian environment. The course will explore the possibilities of digital media in designing and articulating designs, large to regional design issues, non-Mediterranean design issues, and site planning questions. Theories of multi-media design expression, architectural and landscape design, on-site infrastructure will be woven with topics addressing human (physiological, social and cultural) and ecological (faunal, floral, soil, water, etc) factors.

LARCH 4010

Landscape Architecture Studio IA

- 6 units - semester 1
- Up to 18 hours lectures/tutorials/workshops/field trip; contact hours vary week to week
- Eligibility: B.L.Arch, B.Arch/B.L.Arch. double degree students only
- Assumed Knowledge: Design at undergraduate degree level
- Restriction: ARCH 4000 Architecture Studio IC
- Assessment: assignments, projects - may include written, verbal, & graphic (2 & 3 dimensional) communication

This course will typically address a small to medium sized landscape design and planning topic in a rural setting possessing high aesthetic and ecological qualities and experiencing human development pressures. The course will explore the role and opportunities for landscape design and planning interventions and strategies in a precinct or region of high scenic and biological values and human pressures caused either by mining, recreation, transportation, commercial, tourist and or pastoral/agricultural activities.

A project-based learning program integrating design and the avenues of landscape inquiry and expression (structures, materials, plants, languages, information technologies, etc.) and the practices of landscape design, planning and management within a theoretical

and historical context; taking account of human (physiological, social and cultural) and ecological (faunal, floral, soil, water, etc.) factors.

LARCH 4012
Landscape Architecture Studio IB

- 6 units - semester 1
- Up to 18 hours lectures/tutorials/ workshops/field trip; contact hours vary week to week
- Eligibility: B.L.Arch, B.Arch./ B.L.Arch. students only
- Assumed Knowledge: Design at undergraduate degree level
- Restriction: LARCH 5030 Architecture/Landscape Architecture Studio IIE
- Assessment: assignments, projects - may include written, verbal, & graphic (2 & 3 dimensional) communication

This course will typically address a series of small to medium sized landscape design problems with an emphasis upon construction theory and design. The course will explore the role, qualities and possibilities of construction design and materials, and their possible uses in landscape design applications. Attention will be paid to a creative sustainable approach in construction design and materials, languages applied in the 'manufacture' of landscapes through materials, topographic changes, the materiality of interventions and possibilities in using natural and artificial materials.

LARCH 4017
Landscape Architecture Studio IC

- 6 units - semester 2
- Up to 18 hours lectures/tutorials/workshops/field trip; contact hours vary week to week
- Eligibility: B.L.Arch. students only
- Assumed Knowledge: Design at undergraduate degree level.
- Restriction: ARCH 4027 Architecture/Landscape Architecture Studio IF
- Assessment: assignments, projects - may include written, verbal, & graphic (2 & 3 dimensional) communication

A project-based learning program integrating architectural and landscape design and digital media technologies that will typically address a small to medium sized design and planning topic in an urban setting possessing particular cultural constraints, relationships and landscape nuances. The course will place emphasis upon either urban design or ecological design or urban ecology questions and theories. The course will explore the role and contribution of design in our cultural environments, and the nexus between culture and nature in an urban context.

LARCH 5004
Landscape Architecture Seminar II

- 2 units - semester 1
- 2-3 hours lectures/tutorials/workshops/field trips; contact hours vary week to week
- Eligibility: B.L.Arch, B.Arch./ B.L.Arch. students only
- Corequisite: LARCH 5029Landscape Architecture Studio II and either LARCH 5017Landscape Architecture Practice II or ARCH 5025 Architecture/Landscape Architecture Practice II
- Assessment: projects, seminar papers

This course will address contemporary issues of landscape architecture design, planning and practice. The course will explore the role of landscape architecture in the design and planning disciplines and traditions; review and critique contemporary dialogues, designs, theories and philosophies in landscape architecture; and, consider and debate potential future directions, contributions and technologies for the landscape architecture profession.

LARCH 5017
Landscape Architecture Practice II

- 4 units - semester 1
- 2-3 hours lectures/tutorials/workshops/field trips; contact hours vary week to week
- Eligibility: B.L.Arch. students only
- Corequisite: LARCH 5029Landscape Architecture Studio II and LARCH 5004Landscape Architecture Seminar II
- Restriction: ARCH 5025 Architecture/Landscape Architecture Practice II
- Assessment: work diaries, seminar papers, projects, exams.

This course will address the frameworks for and ethical structures of architectural and landscape architectural professional practice in South Australia and Australia. Topics include organisational theory; principles of law; the general organisation of architectural and landscape architectural (and multi-disciplinary) practices including the management of an office's human, physical and financial resources, the relationship between designers and their clients; consultants and contractors; contract administration; specifications; the legal qualifications of an architect and landscape architect; professional organisations; ethics; risk management and professional liability; planning and building law and regulations; problems facing the architect and landscape architect today; estimating and cost control; bills of quantities; the role of the quantity surveyor; project management; the range of services offered by architects and landscape architects.

A student is expected to be in possession of a current copy of the Building Code of Australia and its associated commentary, as a requirement of this course.

LARCH 5021

Landscape Architecture Project II

- 12 units - semester 2
- Up to 20 hours lectures/tutorials/workshops/field trip; contact hours vary week to week
- Eligibility: B.L.Arch, B.Arch/B.L.Arch.double degree students only
- Prerequisite: LARCH 5029 Landscape Architecture Studio II
- Assessment: final project

This course comprises an individual culminating design, planning and/or research project that principally addresses either nature and/or culture in urban and/or rural settings and which permits the exposition of the major aspects of the program and a student's particular interests.

The project will be of a moderate complexity, and often drawn from a limited selection or from an identified region. Responses should demonstrate competency in most phases of landscape architecture thought and practice, including a final presentation which should display a thorough integration of all major aspects of the Program and its Mission Statement and Program Objectives.

LARCH 5028

Advanced Studies in Landscape Architecture II

- 3 units - semester 1
- 2 hour tutorial/seminar per week
- Eligibility: approved Honours B.L.Arch. students only
- Students wishing to take this course on a part-time basis should consult the School Executive Officer
- Prerequisite: admission is selective, based on prior results - guidelines available from School of Architecture, Landscape Architecture and Urban Design
- Assessment: final report

Students will be required to undertake supervised research and/or design exploration into a particular topic, leading to the presentation of a seminar paper and/or exhibition, and submission of a final essay or report of between 3000 to 5000 words.

Topics offered for this course will depend upon staff availability. Examples of topics which can be expected from time to time include: Appropriate Technology and Energy Topics, Computer-Aided Design, Criticism and Landscape Architecture, Cultural Design Topics, Dryland Management, Ecological Restoration, Environmental Planning, Environmental Psychology, Ethno-Ecological Design Topics, Heritage Conservation, Landscape Design History, Landscape Architectural Theory, Landscape Planning, Rural Land Design Topics, Sustainable Design Applications, Urban Design, Urban Ecology, Urban Stormwater Management.

LARCH 5029

Landscape Architecture Studio II

- 6 units - semester 1
- Up to 18 hours of lectures/tutorials/workshops/field trip; contact hours vary week to week
- Eligibility: B.L.Arch., B.Arch/B.L.Arch.double degree students only
- Prerequisite: at least 3 of : LARCH 4010 Landscape Architecture Studio IA, LARCH 4012 Landscape Architecture Studio IB, LARCH 4017 Landscape Architecture Studio IC, LARCH 4002 Landscape Architecture Studio ID, ARCH 4026 Architecture/ Landscape Architecture Studio IE, ARCH 4027 Architecture/ Landscape Architecture Studio IF, ARCH 4000 Architecture Studio IC
- Corequisite: LARCH 5004 Landscape Architecture Seminar II and either LARCH 5017Landscape Architecture Practice II or ARCH 5025 Architecture/Landscape Architecture Practice II
- Assessment: assignments, projects - may include written, verbal, & graphic (2 & 3 dimensional) communication

This course will focus upon landscape planning and urban design theories, methodologies and case studies. It will typically address a range of small to medium sized landscape design and planning topics in rural and urban settings that will be dependent upon the use and application of information technologies and geographic information systems, and digital media and hand graphic representational styles and approaches. The course will explore the position of both nature and culture using creative information technology. A project-based learning program integrating design and the avenues of landscape inquiry and expression (structures, materials, plants, languages, information technologies, etc) and the practices of landscape design, planning and management within a theoretical and historical context; taking account of human (physiological, social and cultural) and ecological (faunal, floral, soil, water, etc) factors.

LARCH 5030

Architecture/Landscape Architecture Studio IIE

- 4 units - semester 1
- Up to 18 hours lectures/tutorials/workshops/field trip; contact hours vary week to week
- Eligibility: B.Arch/B.L.Arch. double degree students only
- Restriction: LARCH 4012 Landscape Architecture Studio IB
- Assessment: assignments, projects - may include written, verbal, & graphic (2 & 3 dimensional) communication

This course will typically address a series of small to medium sized landscape design problems with an emphasis upon construction theory and design. The course will explore the role, qualities and possibilities of construction design and materials, and their possible uses in landscape design applications. Attention will be paid to a creative sustainable approach in construction design and materials, languages applied in the 'manufacture' of landscapes through

materials, topographic changes, the materiality of interventions and possibilities in using natural and artificial materials.

Latin

Level I

LATN 1002
Latin I

- 3 units - semester 2
- 3 tutorials per week
- Available for Non-Award study
- Prerequisite: AGRE 1102 Introduction to Latin and Ancient Greek I (Pass Div 1) or equivalent
- Restriction: not available to students who reached a satisfactory level of achievement in SACE Stage 2 Latin or equivalent
- Assessment: 4 progressive tests 40%, end of semester exam 60%

The course is a continuation of AGRE 1102 Introduction to Latin and Ancient Greek. It introduces students to some of the more complex grammatical constructions of the Latin language and expands their Latin vocabulary with a view to enabling them to read and comprehend (modified) texts in the original language. Students are required to complete a variety of language tasks including translation both into and from Latin and answering comprehension questions on passages in Latin. This course develops students' ability to identify and analyse sophisticated grammatical constructions and improves their comprehension skills.

Level II

LATN 2002
Latin II Part 1

- 4 units -semester 1
- 3 tutorials per week
- Prerequisite: LATN 1002 Latin I Part 2 (Pass Div. 1) or satisfactory achievement in SACE Stage 2 Latin or equivalent
- Assessment: tests throughout semester on grammar & syntax 40%, 3 hour exam on translation & grammar 60%

This course aims to consolidate students' understanding of the complex and sophisticated grammatical constructions of the Latin language while introducing them to the reading of (modified) texts written in the original language. Two hours per week will be devoted to the study of grammar and syntax in which students will be required to complete a variety of language tasks including translation both into and from Latin. One hour per week will be devoted to the reading of (modified) passages from Latin texts, including unseen comprehension.

LATN 2003
Latin II Part 2

- 4 units - semester 2
- 3 tutorials per week
- Prerequisite: LATN 2002 Latin II Part 1 (Pass Div. 1) or equivalent
- Assessment: two end of semester exams, one on preparation text and discussion text 50%, one on ability in unseen translation 40%, two grammar tests throughout semester 10%

The course aims to: 1) consolidate and improve reading skills and understanding of grammatical constructions; 2) enhance ability to comprehend and interpret Latin literature; 3) give students an understanding and appreciation of the literature and culture of the society. One hour per week will be devoted to the study of grammar and syntax, including unseen comprehension. One hour will be spent on a preparation text, prepared beforehand and translated in class with attention to grammatical understanding and analysis. One hour per week will be devoted to a discussion text with attention to literary analysis as well as translation.

LATN 2010
Latin IIS

- 4 units - semester 2
- 3 tutorials per week
- Prerequisite: acceptance for Honours and AGRE 2102 Introduction to Latin and Ancient Greek IIS (Pass Div. 1) or equivalent
- Restriction: not available to students who have reached a satisfactory level of achievement in SACE Stage 2 Latin or equivalent
- Assessment: four progressive tests throughout the semester 40%, end of semester exam 60%

The course is a continuation of AGRE 2102 Introduction to Latin and Ancient Greek IIS. It introduces students to some of the more complex grammatical constructions of the Latin language and expands their Latin vocabulary with a view to enabling them to read and comprehend (modified) texts in the original language. Students are required to complete a variety of language tasks including translation both into and from Latin and answering comprehension questions on passages in Latin. This course develops students' ability to identify and analyse sophisticated grammatical constructions and improves their comprehension skills.

Level II

LATN 3002
Latin III Part 1

- 6 units - semester 1
- 3 tutorials per week
- Prerequisite: LATN 2003 Latin II Part 2 (Pass Div 1) or equivalent
- Assessment: sentences/proses during semester 15%, 3 exams: on preparation text & discussion text 30%, on unseen translation & translation from English 40%, on private reading text 15%

The course aims to: 1) enable students to gain complete mastery over the language structure; 2) improve their reading skills over a variety of genres and writing styles; 3) enhance their understanding and appreciation of the literature and culture of the society. One hour per week will be devoted to the study of grammar and syntax, including unseen comprehension and translation from English: in this class, students will be expected to hand up work for assessment. One hour will be spent on a preparation text, prepared beforehand and translated in class with attention given to grammatical understanding and analysis. One hour per week will be devoted to a discussion text with attention given to literary analysis as well as translation. In addition, a text is to be read privately during the semester, for examination at the end.

LATN 3003
Latin III Part 2

- 6 units - semester 2
- 3 tutorials per week
- Prerequisite: LATN 3002 Latin III Part 1 (Pass Div 1) or equivalent
- Assessment: sentences/proses during semester 15%, 3 exams: on preparation text & discussion text 30%, on unseen translation & translation from English 40%, on private reading text 15%

The course aims to: 1) enable students to gain complete mastery over the language structure; 2) improve their reading skills over a variety of genres and writing styles; 3) enhance their understanding and appreciation of the literature and culture of the society. One hour per week will be devoted to the study of grammar and syntax, including unseen comprehension and translation from English: in this class, students will be expected to hand up work for assessment. One hour will be spent on a preparation text, prepared beforehand and translated in class with attention given to grammatical understanding and analysis. One hour per week will be devoted to a discussion text with attention given to literary analysis as well as translation. In addition, a text is to be read privately during the semester, for examination at the end.

LATN 3011
Latin IIIS Part 1

- 6 units - semester 1
- 3 tutorials per week
- Prerequisite: acceptance for Honours, LATN 2101 Latin IIS (Pass Div 1) or equivalent
- Assessment: tests throughout semester 40%, 3 hour exam on translation, grammar and comprehension 60%

This course aims to consolidate students' understanding of the more complex and sophisticated grammatical constructions of the Latin language while introducing them to the reading of (modified) texts written in the original language. Two hours per week will be devoted to the study of grammar and syntax in which students will be required to complete a variety of language tasks including translation both into and from Latin. One hour per week will be devoted to the reading of (modified) passages from Latin texts, including unseen comprehension.

LATN 3012
Latin IIIS Part 2

- 6 units - semester 2
- 3 tutorials per week
- Prerequisite: acceptance for Honours, LATN 3011 Latin IIIS Part 1 (Pass Div 1) or equivalent
- Assessment: 2 grammar tests 10%, 2 exams: preparation text & discussion text 50%, ability in unseen translation 40%

The course aims to: 1) consolidate and improve reading skills and understanding of grammatical constructions; 2) enhance ability to comprehend and interpret Latin literature; 3) give students an understanding and appreciation of the literature and culture of society. One hour per week will be devoted to the study of grammar and syntax, including unseen comprehension. One hour will be spent on a preparation text, prepared beforehand and translated in class with attention given to grammatical understanding and analysis. One hour per week will be devoted to a discussion text with attention given to literary analysis as well as translation.

Honours

LATN 4401
Honours Latin

- 24 units - full year
- Prerequisite: UG degree, credit average courses contributing to a major in Latin or equivalent approved by Head of Classical Studies
- Students wishing to take Honours Latin should consult the Honours Coordinator prior to commencing level II to ensure appropriate course choices are made in preparation for Honours

- Assessment: study of 4 short Latin texts, 2 long texts *or* 1 long & 2 short texts assessed by exams, 4000-5000 words of essay writing 33%; contribution to common course with 3000 word seminar paper 12%; proses to be handed up for one semester & end of semester exam to assess unseen & prose translation ability 13%; 12500-15000 word dissertation in semester 2, 42%

In some circumstances Honours Latin can be studied part-time over two years or can be combined with Honours in Ancient Greek or another discipline.

Law

Level I

LAW 1001
Introduction to Australian Law

- 4 units - semester 1 or 2
- appropriate to 1st year study
- 48 hours
- Eligibility: Law degree students only
- Assessment: class participation, written assignment(s), exam

This course provides an introduction to development and operation of the Australian legal system, including the historical background and the development of the Australian legal system and its components; Legal System taxonomy, including the Australian Federal system. public and private law; other families of legal systems, including the International legal system and comparative law; an introduction to human rights law; and an introduction to legal theory, addressing the nature of law and critical legal thinking. The course will also provide an introduction to legal research and problem solving.

LAW 1002
Law of Torts

- 4 units - semester 1
- 36 hours
- appropriate to 2nd year study
- Pre/corequisite: LAW 1001 Introduction to Australian Law
- Assessment: to be advised

The tort of negligence including defences, with some consideration of damages, concurrent liability and alternative methods of providing compensation for accidental injury. A representative range of other torts and their defences which may include intentional torts to the person, and torts to the person, trespass to land and defamation.

LAW 1003
Law of Contract

- 4 units - semester 1
- appropriate to 2nd year study
- 50 hours
- Co/prerequisite: LAW 1001 Introduction to Australian Law
- Assessment: exam 100%, or exam 75% and 1000 word assignment 25%

Acquaints students with the content and application of the common law, equitable and statutory rules relating to enforceable agreements and puts those rules in their practical and social perspective. Although the course is not concerned with the various statutory modifications made with respect to specific classes of contract (eg employment, land, consumer finance, etc), which are dealt with in other courses, an understanding of the basic conception of a contract is vital not just as a starting point for those statutory models but also for an understanding of everyday commercial agreements. The following topics will be covered: Creation and content of a contract (formation, privity, agency, terms); Statutory remedies for misleading and deceptive conduct in trade and commerce, misrepresentation; unconscionable dealing, improper pressure; discharge of obligations (breach, frustration, variation and discharge by agreement); Remedies (enforcement, compensation, restitution).

LAW 1004
Law of Crime

- 4 units - semester 1
- appropriate to 3rd year study
- 50 hours
- Prerequisite: LAW 1001 Introduction to Australian Law, LAW 1002 Law of Torts, LAW 1003 Law of Contract
- Assessment: class participation 10%, optional essay/exercise 20%, exam 70% or 90%

The course opens with an examination of the nature and purposes of law of crime and the general principles of criminal responsibility before proceeding to a detailed examination of selected substantive offences. The offences to be considered will include fatal and non-fatal offences against the person, and selected offences of dishonesty. Attempted offences and preparatory crimes are covered, with particular reference to the law relating to trafficking and related offences involving illicit drugs. The course will examine the major defences to crime, including self-defence, necessity and mental impairment. It will also provide students with a basic understanding of criminal procedure.

LAW 1005

Property Law

- 4 units - semester 2
- appropriate to 3rd year study
- 50 hours
- Prerequisite: LAW 1001 Introduction to Australian Law, LAW 1003 Law of Contract
- Assumed Knowledge: LAW 1002 Law of Torts,
- Assessment: exam 100% or 75%, class presentation 25%

This course will discuss the important features of the Australian common law and statutory provisions relating to real and personal property, with emphasis being given to the former. The principal aim is to acquaint students with the fundamental proprietary interests and to teach students how to apply the relevant laws and concepts to practical situations where such interests are in dispute. The following topics will be considered: ownership and possession of real and personal property; adverse possession and limitation of actions legislation; limits to land (including fixtures, the ownership of airspace and subsoil, land boundaries and encroachments); estates and tenure; legal rights recognised in land (including bare and contractual licences; mortgages; co-ownership); future interests and equitable intervention; creation and enforceability of equitable interests; the Torrens system of land title registration; leases; easements; and restrictive covenants.

LAW 1006

Introduction to Public International Law

- 4 units - not offered in 2005
- Pre/corequisite: LAW 1001 Introduction to Australian Law, LAW 1002 Law of Tort, LAW 1003 Law of Contract
- Assumed Knowledge: basic knowledge of legal reasoning
- Restriction: not to be presented with 5600 Public International Law
- Assessment: 4000 word essay

The main aim of the course is for students to learn the place of international law in the Australian legal system. Students will study the international legal system, its sources, its system of adjudication and enforcement, to what extent its norms are part of Australian municipal law and how this came about. The course to some extent builds on and re-enforces concepts learned in Legal Skills, and will introduce students to some of the principles they will encounter again in Australian Constitutional Law and Administrative Law.

Level II

LAW 2001

Legal Research and Writing

- 2 units - semester 1 or 2
- 25 hours
- Quota may apply for semester 1
- Prerequisite: LAW 1001 Introduction to Australian Law, LAW 1002 Law of Torts,LAW 1003 Law of Contract
- Assessment: to be advised

This course is concerned with the following legal skills: problem based legal research and analysis; legal interviewing; letter writing and drafting of non-litigious legal documents such as contracts, trust deeds and wills. The skills are not considered in isolation. Much of the teaching program revolves around fact situations including interviews leading to research, drafting and letter writing.

LAW 2002

Administrative Laws

- 4 units - semester 2
- 40 hours
- Prerequisite: LAW 1001 Introduction to Australian Law
- Assumed Knowledge: LAW 1002 Law of Torts, LAW 1003 Law of Contract, LAW 2002 Australian Constitutional Law

The 3 main aims of the course are to teach the basic principles which govern review of administrative action by courts and tribunals, to train students to apply those principles in complex fact situations and to provide a critical analysis of that system. A particular focus is placed upon judicial review, including its fundamental concepts or jurisdiction, ultra vires, and procedural fairness. The course will also cover review 'on the merits' by administrative tribunals. The practical significance of the course in substantive areas such as taxation, immigration, welfare and regulation is emphasised.

Topics include: the organisation of the executive arm of government; State and Commonwealth avenues of review; the conceptual and constitutional basis of administrative law; error of law, error of fact and the legality/merits distinction; the 'new' administrative law of review by tribunals; justiciability and standing; procedural fairness; ultra vires and abuse of discretion; jurisdictional error, judicial review remedies and privative clauses.

LAW 2003

Australian Constitutional Law

- 4 units - semester 1
- 50 hours
- Prerequisite: LAW 1001 Introduction to Australian Law
- Assumed Knowledge: LAW 1002 Law of Torts, LAW 1003 Law of Contract
- Assessment: to be advised

The Australian constitutional system. Selected topics including: introduction to Federal and State Constitutions, both written and common law; historical background and theories of constitutionalism; the doctrine of separation of powers, the nature of legislative, executive and judicial power at both Commonwealth and State levels; the legislative power of the Commonwealth, including the process of characterisation and an examination of heads of power specified in s51 and s52; relations between the Commonwealth and the States and the resolution of inconsistencies between laws; representative and responsible government, including the relation of citizens and their parliaments, the relation of executive government to the parliaments, and the implications in the constitutions drawn from representative and responsible government; the Commonwealth and the States as a social and an economic union, including the constitutional place of indigenous peoples and the law relating to sections 117 and to sections 90 and 92.

LAW 2004

Corporate Law

- 4 units - semester 2
- 50 hours
- Prerequisite: LAW 1001 Introduction to Australian Law
- Assumed Knowledge: LAW 1002 Law of Torts, LAW 1003 Law of Contract
- Assessment: multiple choice exam 50%, participation in problem solving exercise 25%, reflective essay 25%

Examination of the legal regulation of corporate activity including formation; comparison with non-corporate entities, attributes of corporate personality (property, contract, tort, member liability); the corporate contract; corporate governance (directors' duties, shareholder primary norm, members rights and remedies); public regulation of corporate activity (ASC and ASX regulations); corporate finance (debt and equity); corporations in financial trouble (administration, receivership, winding up); and rights attendant upon dissolution.

LAW 2005

Equity

- 4 units - semester 1
- 50 hours
- Prerequisite: LAW 1001 Introduction to Australian Law, LAW 1002 Law of Torts, LAW 1003 Law of Contract, LAW 1005 Property Law
- Assessment: exam 100% or 60%, 4 x 800-1000 word papers 40%

Historical basis of equity; equitable interests in property - the nature of beneficial interest, equitable assignments. The course will examine in details major equitable doctrines or principles: 1) unconscionable conduct; 2) fiduciary relationships; 3) trust: express, resulting and constructive. Particular emphasis will be places throughout the course upon remedies, both specific and monetary. Other equitable doctrines such as breach of confidence will be considered.

LAW 2006

Australian Legal History

- 4 units - not offered in 2005
- 20 hours
- Pre/corequisite: LAW 1001 Introduction to Australian Law
- Assumed Knowledge: LAW 1002 Law of Torts, LAW 1003 Law of Contract
- Assessment: 3500 word essay 60%, essay outline 15%, Legal History Project 15%, class participation 10%

This course will draw from the historical influences on the evolution of the Australian legal system to federation, with special reference to the continuing effects on the present day ordering of legal activities. Students will be expected to participate in class discussions. The course will draw from the following topics: The legal and philosophical foundations of the British empire, the juridical status of Australian settlement, the status of the Aboriginal people under European law, the English background to the Australian system, frontier law and other original Australian developments, the move to independent legal institutions and the juridical nature of constitution making in Australia. The course will also introduce students to the sources of legal history generally and Australian legal history in particular, as well as basic historical methodology.

LAW 2007

Workers Compensation Law

- 2 units - not offered in 2005
- 24 hours
- Available for Non-Award study

The field of workers' compensation requires trained professionals to handle injuries or illnesses that result from workplace hazards and accidents. Employers and employees need advisers who

understand the complexities of the workers' compensation process. This course examines how to establish and defend a workers compensation claim, rehabilitation of injuries, as well as dispute resolution and review. Following the course, students will also achieve a greater understanding of medico-legal issues arising in the workplace, as well as, other legal topics, particularly tortious, industrial, insurance and administrative law.

LAW 2010

Research Project B

- 4 units - not offered in 2005
- 5 hours
- Prerequisite: LAW 1001 Introduction to Australian Law, LAW 1002 Law of Torts, LAW 1003 Law of Contract, core course student chooses for research
- Assessment: research essay

Students will opt for a core course that they have completed or are currently undertaking. Students will be assigned in groups of 30 to a teacher in those courses and each student will choose (subject to approval) a research essay topic. The seminars will meet five times to discuss general research techniques and particular problems as they arise. Students will submit a draft of their essay which will be returned with comments prior to final submission.

LAW 2011

Tax and the Revenue Concept

- 2 units - not offered in 2005
- 20 hours
- Prerequisite: LAW 1001 Introduction to Australian Law
- Assumed Knowledge: LAW 1002 Law of Torts, LAW 1003 Law of Contract
- Assessment: exam

This course will cover the constitutional aspects of taxation and the distinction between capital and income receipts and deductions.

LAW 2013

Restitution

- 2 units - not offered in 2005
- 20 hours
- Prerequisite: LAW 1001 Introduction to Australian Law, LAW 1002 Law of Torts, LAW 1003 Law of Contract
- Assessment: to be advised

As many as possible of these topics will be covered. Historical origins of restitution. Nature and extent of restitutionary principle. Action for recovering money. Quantum meruit. Grounds for restitutionary recovery: mistake; compulsion and duress; total failure of consideration; incontrovertible benefit. Restitution and contract: i - void and ineffective contracts; ii - contracts terminated by breach or frustration. Restitution and wrongs specially breach of contract; torts. Defences to restitution.

LAW 2014

Selected Issues in International Law

- 4 units - not offered in 2005
- 40 hours
- Prerequisite: LAW 1001 Introduction to Australian Law
- Assumed Knowledge: LAW 1006 Introduction to Public International Law or LAW 3066 Public International Law or LAW 3015 International Environmental Law or LAW 2085 Human Rights: International and National Perspectives
- Assessment: class participation, presentation, 5000 word essay

The course involves the examination of current international legal issues at an advanced level. Topics covered will be drawn from: use of force, armed conflict and international humanitarian law, law of the sea; theories of international law, international institutions, international dispute resolution, self determination and statehood, international trade law, international criminal law.

LAW 2015

Family Law

- 4 units - semester 1
- 40 hours
- Prerequisite: LAW 1001 Introduction to Australian Law
- Assumed Knowledge: LAW 1002 Law of Torts, LAW 1003 Law of Contract
- Assessment: exam

The law of marriage and divorce within the constitutional context and the Family Law act. Child welfare including custody, access, support and adoption. Matrimonial property and spousal maintenance.

LAW 2016

Transnational Crime

- 4 units - semester 2 & off campus
- Available for Non-Award study
- Quota may apply
- Pre/corequisite: LAW 1004 Law of Crime
- Assessment: participation 20%, project presentation 40%, assignment 40%

Contemporary crime and criminal justice is increasingly characterised by the globalisation of criminal activities and international efforts to combat transnational crime. The focus of this course is with the growing body of international criminal law, increasing numbers of international conventions to combat

transnational crime and domestic efforts in Australia to accede to and implement this body of law.This course is concerned with the criminalisation of transnational criminal activities, and national, regional and international efforts to investigate such crime and prosecute offenders. The course examines the opportunities and limitations of international conventions on the prevention of crime, Australia's experiences with transnational criminal activities and its efforts to fight these activities.

LAW 2017

Human Rights Internship Programme

- 4 units - semesters 1, 2 & summer
- 40 hours
- Quota may apply
- Pre/corequisite: LAW 2085 Human Rights Law
- Assessment: 5000-7000 word portfolio - details at start of course

The course places students in 'internships' with human rights organisations located internationally and nationally for a period of three months. The internships enable students to build on their understanding of the theory of human rights law by gaining an appreciation of its practical operation. The course aims to give depth and context to students' existing knowledge of human rights law.

During the internship, the students will be required to complete an agreed research task under the supervision of a senior person at the chosen human rights organisation. This research task might involve research into a specific area of law or policy for the purpose of a 'test-case' being run in the courts, for the drafting of a report, or the preparation of educational material. The research task will be negotiated by the student and the organisation, with the approval of the course coordinator. It is expected that students will also be involved in the day-to-day activities of the organisation and gain an understanding of how such organisations operate.

Prior to commencement, students will be given orientation to introduce them to the strategies and procedures generally employed by human rights organisations. The seminars will be conducted by the course convener in conjunction with practitioners in the field.

LAW 2018

Revenue Law

- 4 units -winter break
- Available for Non-Award study
- Quota may apply
- Restriction: not to be counted with 3021 Capital Gains Tax and the Taxation of Entities, 2011 Tax and the Revenue Concept

This course will cover the constitutional aspects of taxation and the distinction between capital and income receipts and deductions, the provisions of part 3.1 and 3.2 of the Income Tax Assessment Act 1997, which relates to Capital Gains Tax. In addition, this course will deal with tax accounting, income assignments and the taxation of entities (in particular partnerships, companies and trusts) and tax avoidance.

LAW 2019

Remedies Under the Trade Practices Act

- 4 units - not offered in 2005
- Available for Non-Award study
- Quota may apply
- Assumed Knowledge: Introduction to Australian Law and Law of Contract
- Assessment: 3000 word research essay

In litigation, remedies are what clients want. The courses focuses on the remedies available under the Trade Practices Act (and the substantially similar Fair Trading Act 1987 (SA)). It has been recognised that the Trade Practices Act will have an increasing impact upon the traditional areas of legal obligations, contracts, torts and equity. What this means is the course would of importance to all litigation lawyers. And there are important differences in between TPA remedies and remedies available under traditional legal obligation. This course will attempt to clarify these differences in the process of providing a straight forward analysis of the remedies available under the TPA and their operation.

LAW 2020

Commercial Law and the Market

- 4 units - semester 1
- 36 hours
- Prerequisite: LAW 1001 Introduction to Australian Law
- Assumed Knowledge: LAW 1002 Law of Torts, LAW 1003 Law of Contract
- Assessment: 4000 word essay 80%, class assessment 20%

This course will begin with an investigation of the history of commercial law. Particular attention will be paid to the competing views over the origin and content of the law merchant and what lessons this debate provides for a student today. The course then considers a basic issue of legal study - how much attention is paid to the law, in this case commercial law. Empirical and theoretical works covering a wide range of industries will be examined to help answer this question. The course will also examine responses to the use of law in the market in light of the purposes of commercial law and the capacities of judges and the legal system to meet these purposes. The course will end with an investigation into the role of law in expanding the range of the market into new areas such as biotechnology and the Web.

LAW 2021
Medical Law and Ethics

- 4 units - semester 1
- 40 hours
- Quota may apply
- Prerequisite: LAW 1001 Introduction to Australian Law, LAW 2003 Law of Torts
- Assumed Knowledge: LAW 1003 Law of Contract
- Assessment: 3000 word essay 80%, class presentation, participation 20%

The course provides an introduction to ethics generally and then to medical ethics, examining in particular the principle of autonomy, which informs much of medical law. Medical practitioners are meant to act in a way which preserves patient autonomy, which allows the patient to make informed decisions about their treatment. The course then considers the general part of medical law governing the legal relationship between medical practitioners and their patients. It considers the legal implications of the provision of medical advice, diagnosis and treatment, drawing mainly on the tort of negligence but also parts of the Law of Crime, in particular the offences against the person. Selected medico-legal issues over a human life are then examined. They may include reproductive technologies, abortion, foetal rights, research on human subjects, organ donation, the rights of the dying and the legal definition of death.

LAW 2022
Consumer Protection & Unfair Trading

- 2 units - not offered in 2005
- 20 hours
- Prerequisite: LAW 1001 Introduction to Australian Law
- Assumed Knowledge: LAW 1002 Law of Torts, LAW 1003 Law of Contract
- Assessment: to be advised

A study of: the regulation of trading practices under national and state laws (particularly advertising); remedies for infringement of the standards for fair trading; small claims procedures; class actions; assistance for consumers; consumer credit.

LAW 2023
Roman Law

- 4 units - semester 1
- 40 hours
- Prerequisite: LAW 1001 Introduction to Australian Law
- Assumed Knowledge: LAW 1002 Law of Torts, LAW 1003 Law of Contract, LAW 1005 Property Law
- Assessment: 5000-7000 word paper on negotiated topic 70%, class participation 15%, class presentation 15%

The aim of this subject is both comparative and analytical. It aims to compare the substantive content of Roman, canon and common law, as well as the contemporary and cross-cultural operation of those legal systems. Analytically, the entire subject is directed toward answering one question: Why has the Roman influence on canon law and common law been overlooked? Closely related to this is the general oversight in the contemporary Australian legal academy of the operation of religious law. Both of these concerns will be explored using the Roman law as a starting point.

LAW 2024
Moot A

- 2 units - semester 2
- 9 hours
- Prerequisite: LAW 1001 Introduction to Australian Law
- Assumed Knowledge: LAW 1002 Law of Torts, LAW 1003 Law of Contract
- Assessment: to be advised

Students prepare a moot brief in teams of five. They exchange briefs with their opponents. When the moot is held they present oral argument in refutation of their opponent's briefs. Attached to each team will be five Legal Skills 1 students who will act as research assistants.

LAW 2026
Aboriginal People and the Law

- 4 units - winter semester
- 40 hours
- Available for Non-Award study
- Prerequisite: LAW 1001 Introduction to Australian Law
- Assumed Knowledge: LAW 1005 Property Law
- Assessment: assignments, seminar presentation, participation

A critical analysis of the legal and historical relationships between Aboriginal and non-Aboriginal peoples, including laws and governmental policies towards Aboriginal people: in particular focus will be given to the relationship for Aboriginal law to the Australian legal system, Aboriginal title, the Mabo decision and native title law, cultural heritage protection, the stolen generations, Aboriginal peoples and the criminal justice system, and the role of international law in the process of reconciliation and social justice.

LAW 2031
Financial Transactions

- 4 units - semester 1
- 40 hours
- Prerequisite: LAW 1001 Introduction to Australian Law, LAW 1002 Law of Torts, LAW 1003 Law of Contract, LAW 1005 Property Law

- Assumed Knowledge: completion/concurrent study of Corporate Law is advisable
- Assessment: exam 100% or 60%, research paper 40%

Commercial lending and security; finance bills; consumer credit; guarantees; lease financing; financing against receivables; financing overseas transactions; project financing; letter of credit and performance bonds; privacy obligations of the financier; the consequences of debtor insolvency for the financier.

LAW 2036
Land Transactions

- 4 units - not offered in 2005
- 40 hours
- Prerequisite: LAW 1005 Property Law
- Assessment: to be advised

An examination of various aspects of the law relating to the creation and transfer of interests in land. The course will consider land dealings of all types, with particular reference to informal dealings.

LAW 2052
Moot B

- 4 units - not offered in 2005
- 18 hours
- Prerequisite: LAW 1001 Introduction to Australian Law, LAW 1002 Law of Torts, LAW 1003 Law of Contract
- Assessment: to be advised

Students prepare a moot brief in teams of five. They exchange briefs with their opponents. When the moot is held they present oral argument in refutation of their opponent's briefs. Attached to each team will be five Legal Skills 1 students who will act as research assistants.

LAW 2053
Feminist Legal Theory

- 2 units - not offered in 2005
- 20 hours
- Pre/corequisite: LAW 1001 Introduction to Australian Law
- Assumed Knowledge: LAW 1002 Law of Torts, LAW 1003 Law of Contract
- Assessment: to be advised

This course explores how the law affects, treats and constructs women. It examines the relationship between feminism, law and politics and, in particular, feminist struggles for social change, nationally and internationally. It offers an introduction to the various theoretical frameworks and the current challenges facing the feminist project. It analyses contemporary feminist engagements with the law on both a practical and theoretical level, covering areas such as sexuality, pornography, sexual harassment, abortion, work conditions, trafficking, and globalisation. In particular, it will assess feminist strategies that can be used to address these (and other) issues.

LAW 2059
Intellectual Property Law

- 4 units - semester 2
- 40 hours
- Prerequisite: LAW 1005 Property Law
- Pre/corequisite: LAW 1002 Law of Torts, :LAW 1003 Law of Contract
- Assessment: take home exam

This course aims, through a treatment of laws relating to patents, trademarks, confidential information, copyright and other regimes, to examine the protection provided by the law in regard to ideas, inventions, information and other forms of creative effort. The course also aims, in terms of general legal education of students, to explore how the law deals with a particular problem, and how in solving that problem the law must balance interests and protect investment while taking into account the public welfare and technological developments. The course will explore the interrelationship of the different regimes of protection, and will also consider practical issues arising in the commercialisation or exploitation of intellectual property. Students completing this course should have a basic grounding in the law of the area, its limitations, policies, and objectives, including the basic features of the various systems of protection.

LAW 2060
Selected Issues in Law of Crime

- 4 units - not offered in 2005
- 40 hours
- Available for Non-Award study
- Quota may apply
- Prerequisite: LAW 1001 Introduction to Australian Law, LAW 1002 Law of Torts, LAW 1003 Law of Contract, LAW 1004 Law of Crime
- Assessment: exam or research essay 75-80%, class participation or compulsory 1 hour exam 20-25%

The course deals with specific issues in the law of crime and procedure, with emphasis on issues which are the subject of current debate or reform in Commonwealth and State criminal law. New topics are introduced each year. In recent years, the course has explored issues in the codification of the criminal law, at federal and state levels. The approach is comparative, drawing on developments in other Australian and overseas jurisdictions (See Law Handbook for more detail).

LAW 2061

Public and Private Provision of Income Maintenance

- 4 units - not offered in 2005
- 40 hours
- Prerequisite: LAW 1001 Introduction to Australian Law
- Assumed Knowledge: LAW 1002 Law of Torts, LAW 1003 Law of Contract
- Assessment: to be advised

The course will offer a theoretical framework for analysing the relationship between public, private, industrial and family based welfare and individual income maintenance schemes from each sector. Topics for the application of this framework will be chosen from the fields of provision for age, disability and incapacity or provision for broken families.

LAW 2062

Succession

- 2 units - semester 2
- 20 hours
- Prerequisite: LAW 1001 Introduction to Australian Law
- Assumed Knowledge: LAW 1002 Law of Torts, LAW 1003 Law of Contract
- Assessment: exam 80%, 1000 word assignment 20%

Acquaints students with the basic principles of the devolution and distribution of property upon death of the owner. Death is a major occasion for the transfer of property and the principles relating to it form an important part of any legal practice. Whilst the course concentrates upon the rules and practice relating to devolution of property on death, various aspects of social policy are considered. The following topics will be covered: will making; distribution upon intestacy; family provision; probate and administration.

LAW 2064

Jurisprudence

- 4 units - semester 1
- 40 hours
- Pre/corequisite: LAW 1001 Introduction to Australian Law
- Assumed Knowledge: LAW 1002 Law of Torts, LAW 1003 Law of Contract
- Assessment: 3000 word essay 60%, 1500 word critical review 25%, class participation 15%

This course introduces some of the philosophical questions raised by the practical workings of law. We will examine the nature of law and legal reasoning and how law is related to other social institutions, practices or discourses (primarily morality, politics and ideology). Such issues have been long debated, though our discussions will focus on readings drawn from a variety of influential and critical contemporary perspectives. The course also raises substantive issues of justice and morality. The primary aim is not to ask what the law should say in particular areas, but to examine some broader issues concerning the relationship between law, legal institutions and justice. Issues addressed will vary from year to year (depending, in part, on student interests) but may include: the role and value of the 'rule of law'; the communitarian critics of 'liberal' rights discourse; the economic analysis of law; the philosophical foundations of constitutionalism and the problem of constitutional interpretation; the extent of any moral obligation to obey the law; and how (if at all) law and legal institutions can help achieve justice in multicultural and/or post-colonial societies.

No background in philosophy is assumed, though students should have a basic understanding of common law reasoning and the Australian constitutional system.

LAW 2070

Environmental Law

- 2 units - semester 1
- 24 hours
- Prerequisite: LAW 1001 Introduction to Australian Law
- Assumed Knowledge: LAW 1002 Law of Torts, LAW 1003 Law of Contract, Law 2003 Australian Constitutional Law
- Assessment: 3000 word essay 80%, class participation 20%

An introduction to the concepts and principles which underpin environmental law from the international to the local level. The course will address Constitutional responsibilities and roles relating to the environment; sustainable development and the law; environmental planning through environmental impact assessment and land-use law; environmental protection principles, climate change and renewable energy; water resources law; and the protection of biological diversity.

LAW 2074

Property Theory

- 2 units - not offered in 2005
- 20 hours
- Prerequisites: LAW 1001 Introduction to Australian Law
- Assumed Knowledge: LAW 1005 Property Law
- Assessment: to be advised

This course considers current theories of property and their applicability to the social context, especially public spaces. The current theories of property upon which we might rely include the work of John Christman, Brendan Edgeworth, JW Harris, David Lametti, CB Macpherson, Stephen Munzer, James Penner, Margaret Jane Radin, Carol Rose, JL Schroeder, and Jeremy Waldron. Using one or more of these theories of property, we will examine the role which property--as law and as theory--plays in defining the use of public spaces by various groups, which might include, but are not limited to, residents, recreational users, the

poor, the homeless, and gangs. We will develop this part of the course using a variety of cross-cultural audio-visual and literary perspectives. Having critiqued one or more of these theories, we will develop a theory of property applicable to public spaces that draws upon property and urban planning theory. Students interested in the theory of property from a legal and philosophical perspective will find this course stimulating.

LAW 2081
Research Project A

- 2 units - not offered in 2005
- 9 hours
- Prerequisite: LAW 1001 Introduction to Australian Law, LAW 1002 Law of Torts, LAW 1003 Law of Contract
- Assessment: 5000 word essay

Students will work in teams of five on a research project in law reform. They will produce a report and a draft of a statutory amendment. Attached to each team will be five first year students who will act as research assistants.

LAW 2084
Jessup Moot

- 4 units - summer semester
- 40 hours
- Eligibility: students selected by course coordinator/ team coach
- Quota: maximum 5 students
- Prerequisite: LAW 1001 Introduction to Australian Law, LAW 1002 Law of Torts and LAW 1003 Law of Contract
- Assumed Knowledge: LAW 1006 Introduction to Public International Law
- Assessment: team assessment - draft memorials 20%, 2 x 12000 word final memorials 30%, individual assessment - applicant moot 20%, respondent moot 20%, participation 10%

Students will be required to participate in the Australian Regional Rounds of the Philip C Jessup International Moot Court Competition, and the International Rounds if necessary. Participation will involve the preparation of written submissions (memorials) for both the Applicant and Respondent parties, and the preparation of oral submissions for the purposes of practice and competition moots.

LAW 2085
Human Rights: International & National Perspectives

- 4 units - semester 1
- 40 hours
- Assumed Knowledge: LAW 3066 Public International Law or LAW 1006 Introduction to Public International Law
- Assessment: 5000 word essay 80%, class participation 20%

The aim of this course is to have students consider the legal, philosophical and sociological underpinnings of human rights; students will be encouraged to think critically about the views they hold and the values reflected in the Australian and international legal systems. The course will focus on the United Nations and its role in formulating, interpreting and monitoring human rights. A further component of the course will be the protection of human rights in Australia.

LAW 2092
Advanced Property Law

- 4 units - not offered in 2005
- 40 hours
- Prerequisite: LAW 1005 Property Law
- Assessment: 8000-8200 word research paper or take home exam

This course will build on the knowledge obtained by students in the compulsory Property Law course and will provide those students who have acquired an interest in property law with an opportunity to develop and deepen that interest. The course will comprise a detailed treatment of title to goods and title to land. Special topics will include: sale of lands (the conveyancing process), native title, particular titles.

LAW 2096
Minerals and Energy Laws

- 4 units - semester 2
- 40 hours
- Prerequisite: LAW 1005 Property Law
- Assumed Knowledge: Law 2003 Australian Constitutional Law
- Assessment: 5000 word essay 80 %, class attendance, participation 20%

The course examines the law and practice relating to the ownership and development of on-shore and off-shore mineral and petroleum resources in Australia. It covers the development of legislation with reference to exploration, extraction and the enforcement of mining and petroleum interests. Community and social issues will be discussed, including the relationship between mining and indigenous people, environmental controls over mining production, health and safety in mining, and the corporate social responsibility of companies operating overseas, including the links between resource exploitation, the environment and human rights. We will look at international boundary disputes, including the dispute over the Timor Sea. The course will also deal with international and national laws and regulatory mechanisms to address climate change, including national and state legislation to encourage renewable energy resources, and the regulation of specific alternative energy resources such as wind, solar and geothermal energy. The regulation of the electricity industry and the regulation of uranium mining and nuclear energy will also be covered.

LAW 2097

Securities and Investment Law

- 4 units - semester 2
- 40 hours
- Co/prerequisite: LAW 2004 Corporate Law
- Assumed Knowledge: LAW 1001 Introduction to Australian Law, LAW 1002 Law of Torts, LAW 1003 Law of Contract
- Assessment: exam 100% or exam 60%, 3000 word essay 40%, or exam 40%, 5000 word research paper 60%

This course deals with the following aspects of the law relating to financial products and markets: Defining financial products and financial markets; Misleading and deceptive conduct in financial product transactions; Financial market manipulation; Insider trading in financial products; Short-selling of financial products; The regulation of corporate takeovers.

LAW 2099

Law of the Person

- 4 units - not offered in 2005
- 40 hours
- Prerequisite: LAW 1001 Introduction to Australian Law
- Assumed Knowledge: LAW 1002 Law of Torts and LAW 1003 Law of Contract
- Assessment: to be advised

Law interprets our social, political and physical beings in ways which determine our most basic rights and obligations as legal courses. This course aims to develop in students an informed, coherent and critical understanding of the legal fiction of the person and the role of that fiction in Western law. It will trace the legal person through a number of core and elective courses of the curriculum in order to show a) how law variously attributes characteristics to its subject and b) how those attributed qualities of the person serve to justify and rationalise the very priorities and forms of law. The course will also have strong comparative and historical dimensions: it will foster an appreciation of changes in the idea of the legal person across States and cultures, and through time.

LAW 2100

Commercial Equity

- 2 units - semester 2
- 20 hours
- Prerequisite: LAW 1001 Introduction to Australian Law, LAW 1002 Law of Torts, LAW 1003 Law of Contract, LAW 2005 Equity
- Assessment: exam 100% or 50%, 3000 word essay 100% or 50%

The penetration of equity into modern commercial life; commercial fiduciaries; equitable security transactions, with particular regard to Romalpa clauses; subrogation and contribution; set-off; marshalling; trusts in a commercial context: trusts and superannuation; the Quistclose trust; the imposition of constructive trusts into commerce; commercial trustees; commercial equitable remedies, particularly Mareva injunctions and Anton Piller orders.

LAW 2104

The Conflict of Laws

- 4 units - not offered in 2005
- 36 hours
- Prerequisite: LAW 1001 Introduction to Australian Law
- Assumed Knowledge: LAW 1002 Law of Torts, LAW 1003 Law of Contract, LAW 1005 Property Law
- Assessment: participation in seminars 20% , exam or 5000 word essay 80%

Courts sometimes have to deal with cases which are significantly connected to another jurisdiction. This other jurisdiction may be another Australian State or Territory, or it may be a foreign country. Questions arise as to the court's jurisdiction over the parties, the appropriate law to apply to the matter, and the recognition and enforcement of judgments of courts outside the jurisdiction. These issues are examined from both a theoretical and a practical perspective.

LAW 2107

Media Law 4

- 4 units - semester 2 & summer break
- 36 hours
- Available for Non-Award study
- Prerequisite: LAW 1001 Introduction to Australian Law
- Assumed Knowledge: LAW 1002 Law of Torts, LAW 2003 Australian Constitutional Law, LAW 2002 Administrative Laws
- Assessment: to be advised

The legal regulation of the media in Australia, defamation (including criminal defamation), privacy and confidential information, racial hatred, international and comparative perspectives, contempt of parliaments and the courts, breach of confidence, privacy, copyright, advertising, administrative regulation and broadcasting and television. Freedom of expression and media regulation, national security, freedom of information, monopolisation and trade practices laws.

LAW 2108

Media Law 2

- 2 units - semester 2 & summer break
- 36 hours
- Available for Non-Award study
- Prerequisite: LAW 1001 Introduction to Australian Law

- Assumed Knowledge: LAW 1002 Law of Torts, LAW 2003 Australian Constitutional Law, LAW 2002 Administrative Laws
- Assessment: to be advised

The legal regulation of the media in Australia, defamation (including criminal defamation), privacy and confidential information, racial hatred, international and comparative perspectives, contempt of parliaments and the courts, breach of confidence, privacy, copyright, advertising, administrative regulation and broadcasting and television. Freedom of expression and media regulation, national security, freedom of information, monopolisation and trade practices laws.

LAW 2117
Advanced Contract Law

- 2 units - not offered in 2005
- 20 hours
- Prerequisite: LAW 1001 Introduction to Australian Law
- Assumed Knowledge: LAW 1002 Law of Torts, LAW 1003 Law of Contract
- Assessment: to be advised

The subject will concentrate on one or more of the following: Nature of contractual obligation. Theories of contract. Good faith. Unconscionability. Law of Contract compared with tort, with particular reference to privity of contract, damages. Discharge of Contract by performance. Breach of contract. Frustration. Contractual remedies: specific performance; injunction; action for an agreement sum; damages.

LAW 2122
Criminology

- 4 units - semester 2
- 40 hours
- Available for Non-Award Study
- Prerequisite: LAW 1001 Introduction to Australian Law,
- Assumed Knowledge: LAW 1002 Law of Torts, LAW 1003 Law of Contract
- Assessment: exam 100% or 66.67%, optional tutorial or research paper 33.33%

Defining crime and the operation of the criminal justice process. An introduction to the historical and contemporary perspectives on the causes of crime and criminality including: physical and genetic factors; psychological theories; and sociology of crime. An introduction into the production and uses of criminal statistics.

LAW 2132
Remedies

- 4 units - semester 2
- 40 hours
- Co/prerequisite : LAW 1001 Introduction to Australian Law
- Assumed Knowledge: LAW 1002 Law of Torts, LAW 1003 Law of Contract
- Assessment: exam 100% or 50%, 5000 or 3000 word essay 100% or 50%

An examination of general law remedies available. Specific topics will include: (i) common law damages (ii) the declaration (iii) the injunction, including an examination of specific problem areas, for example, balance of convenience, interlocutory injunctions and damages in lieu (iv) specific performance (v) constructive trusts (vi) compensation (vii) account of profits (viii) minor remedies.

LAW 2135
Housing Law

- 2 units - not offered in 2005
- 20 hours
- Prerequisite: LAW 1001 Introduction to Australian Law, LAW 1002 Law of Torts, LAW 1003 Law of Contract
- Assessment: to be advised

This subject addresses the ways in which Housing and the right to Housing is regulated in Australia. Adequate Housing is a fundamental human requirement. The subject will focus on legal "rights" to housing, including security of tenure for tenants in the public and private housing markets; the obligations of the State in national and international law to provide adequate housing; resolution of housing related disputes, including disputes about access, occupation and neighbours, and in particular examine the formal processes established for the resolution of such disputes by way of administrative review, litigation, and expert tribunals; and access to finance, publicly or privately supplied, for housing, including social security support and regulation. The subject will also consider the rights and obligations of parties to a residential tenancy agreement; boarders and lodgers and other residential occupants; access to public housing and the particular rights and obligations of public housing tenants; the rights and obligations of retirement village residents and residential occupiers of strata title units; and housing cooperatives.

LAW 2140
Expert Evidence

- 2 units - not offered in 2005
- 2 hour research seminar per week
- Prerequisite: LAW Introduction to Australian Law
- Assumed Knowledge: LAW 1002 Law of Torts, LAW 1004 Law of Crime
- Assessment: class participation, presentation, 3500 word essay

This course provides a critical overview of contemporary approaches to expert opinion evidence from a variety of common law jurisdictions, particularly Australia, the United States and England. The use and assessment of expert evidence will be undertaken from a range of legal, sociological, philosophical and historiographical perspectives. The course is designed to critically explore prevailing models of science and expertise in legal settings, encouraging students to engage a variety of non -legal critical approaches. Notwithstanding a critical theoretical orientation, the course aims to examine, and assist students contemplating, practice. Many of the theoretical approaches will provide students with innovative ways to understand the function of expert evidence and offer means of building and contesting cases incorporating such evidence. The course will cover topics such as: forensic sciences and the new investigative technologies (such as DNA typing); how to cross-examine scientists; the role of expert evidence in miscarriages of justice (such as Chamberlain and the Birmingham Six), mass torts (such as breast implants, asbestos, intra-uterine devices and Agent Orange) and medical negligence cases. It will also examine judicial representations of scientific evidence in judgements, consider social factors shaping debates and expert opinion evidence (such as concerns over 'junk' science) and recent procedural reforms such as adoption of inquisitorial procedures.

Level III

LAW 3001
Litigation Practice

- 2 units - semester 1
- 24 hours
- Prerequisite: LAW 2001 Legal Research and Writing, LAW 2002 Administrative Laws
- Corequisite: LAW 3002 Civil and Criminal Procedure
- Assessment: written case files & exercises, oral applications

To be taught over one semester in conjunction with Civil and Criminal Procedure. This subject introduces students to the skills required in litigation practice through exercises concerned with the conduct of civil and criminal proceedings. Drafting and writing skills will be developed through exercises concerned with the drafting of pleadings and other pretrial documents, including discovery, admissions, and interlocutory applications. Negotiating and mediating skills will be developed through the conduct of practical exercises arising out of attempts to settle civil litigation. An introduction to advocacy skills will be given through the conduct of pre-trial conferences and applications in both civil and criminal matters.

LAW 3002
Civil and Criminal Procedure

- 4 units - semester 1
- 50 hours
- Prerequisite: LAW 2002 Administrative Law, LAW 2001 Legal Research and Writing
- Corequisite: LAW 3001 Litigation Practice
- Assessment: exam 80%, 2000 word assignment 20%

Procedures applicable to the resolution of civil disputes (civil procedure) and the conduct of trials in the court system (criminal procedure). Civil procedure - the nature and extent of civil disputes and the various techniques of conciliation, mediation, arbitration, and judgement used for settling such disputes. The nature of the present civil procedure in South Australia and its conceptual underpinnings is examined, including the respective roles of parties (and their legal representatives) and courts, the responsibility for commencing, continuing and conducting proceedings and the interlocutory manoeuvrings of a civil dispute in South Australia from commencement of proceedings to trial. The course also introduces students to interlocutory injunctions, discovery, inspection, interrogatories, admissions, pre-trial conferences, mediation, conferences and judgement without trial, and includes a critique of the current system. Criminal procedure - the practice and procedure applying to criminal matters in South Australian courts, including consideration of categorisation of criminal offences, criminal pleadings, bail applications, trial procedure (trial by judge alone, jury trial, choice and role of the jury), summary procedure and the magistrates court rules, the role of witnesses, subpoenas, the application and purpose of the Dietrich principle, abuse of process principles and their applicability to criminal trials, verdicts and sentencing and the appeal process.

LAW 3003
Law of Evidence

- 4 units - semester 2
- 48 hours
- Prerequisite: LAW 3002 Civil and Criminal Procedure, LAW 3001 Litigation Practice
- Corequisite: LAW 3007 Introduction to Advocacy
- Assessment: exam 70%, 1 x 2500 word assignments 30%

The rules of evidence as applied in South Australian courts and Federal courts sitting in South Australia. These rules determine the evidence which will be received by courts in proof of facts, the form in which evidence must be presented, and the uses to which

such evidence can be put. The topics will include examination of both the sources and acceptability of evidence, including rules concerning the burden and standard of proof and technical rules concerning such matters as hearsay, admissions and confessions, illegally obtained evidence and res gestae.

LAW 3004
Legal Ethics

- 2 units - semester 2
- 50 hours
- Prerequisite: LAW 1001 Introduction to Australian Law
- Assumed Knowledge: LAW 2001 Legal Research and Writing, LAW 2002 Administrative Laws
- Assessment: exam 100% or 50%, 2000 word research essay 50%

The course considers the duties owed by lawyers to the court, clients, other lawyers and the community. The Legal Practitioners Act and the Law Society's Professional Conduct Rules are considered and the concept of professional misconduct is examined. Specific matters addressed include confidentiality and client privilege; duties with respect to the handling of client's money; frankness and integrity towards the court and other lawyers; and adherence to undertakings. The nature of disciplinary systems and public access thereto and wider questions of personal ethics and conflicting duties and values also are considered.

LAW 3005
Comparative Constitutional Law

- 4 units - semester 1
- 40 hours
- Prerequisite: LAW 1001 Introduction to Australian Law
- Assumed Knowledge : LAW 2003 Australian Constitutional Law - waived for exchange students who have studied constitutional law of their own countries
- Assessment: 5000 word research essay or 3 short papers or exam 80%, compulsory class participation 20%

This course will explore a number of the essential features of constitutional law of Western countries which are comparable to Australia and will compare them with the equivalent features of the constitutional law of one or more other jurisdictions (including Australia). In particular the subject will consider the method, technique and role of the judiciary in the interpretation of the other constitutions. Other aspects that will be investigated include: Court structure; the executive; the legislature; the protection of fundamental rights; and federalism.

LAW 3007
Introduction to Advocacy

- 2 units - semester 2
- 24 hours
- Prerequisite: LAW 3001 Litigation Practice, LAW 3002 Civil and Criminal Procedure
- Corequisite: LAW 3003 Law of Evidence
- Assessment: written trial notebook & exercises, oral applications

To be taught over one semester in conjunction with Law of Evidence, this course introduces students to advocacy skills through exercises concerned with the conduct of civil and criminal trials, including opening statements, applications to exclude evidence, the examination and cross-examination of witnesses, closing statements and jury addresses.

LAW 3010
Alternative Dispute Resolution

- 4 units - will be offered in 2006
- 40 hours
- Pre/corequisite: LAW 2002 Administrative Laws, LAW 3002 Civil and Criminal Procedure
- Assessment: 3000 word paper 70%, submission of group report, project, presentation or other exercise, to be agreed with course coordinator

The course will include a detailed examination of the philosophy and practice of ADR methods in the context of an adversarial legal system. It will assume basic knowledge of the range of ADR options available, and will develop understanding of the operation and implications of various ADR theories and practices in our legal system. It will evaluate the experience in Australia and other common law countries of the development and incorporation of ADR options in dispute resolution, the civil, administrative, family and criminal contexts. By examining both philosophy and practice, the course aims to develop ability to critically assess the legal, social and other issues intrinsically linked to the values imputed to ADR, and to understand the implications of the operation of those theories in an adversarial legal context. The course will include the following: (I) the nature of disputes, and the psychological, political, cultural, economic and social issues that affect dispute resolution; (ii) The relevance and social acceptance of ADR as a credible alternative to litigation; (iii) theory, features and values of various forms of ADR; (iv) Justice reform-the role of the courts in justice delivery-provision of court annexed ADR, the "multi-doored" court and the value of judicial decision making; (v) power and control issue in dispute resolution; (vi) the role of mediators-ethical standards; (vii) legal rights and responsibilities flowing from ADR outcomes.

LAW 3011

Advanced Advocacy

- 4 units - summer semester
- Available for Non-Award study
- Quota will apply
- Pre/corequisite: LAW 3003 Law of Evidence
- Assessment: demonstrated competencies in mock trial settings 50%, reflective journal 50%

This course advances students' advocacy skills through intensive practical exercises replicating components of the trial process, miscellaneous applications to judicial bodies such as applications for judicial review, the conduct of matters before boards and tribunals, and the conduct of appeals. In addition, students will be introduced to opinion work of counsel, especially in relation to the settling of pleadings. Students will learn how to conduct an opening address, examination in chief, cross-examination, and a final address at an advanced level. Students will also learn how to advise and settle pleadings. Throughout the course there will be an emphasis on the ethics and practice of the Bar. Students will be expected to examine the role of the advocate in the 21st century in reflective exercises, which will follow skills based exercises. The course will be conducted in a courtroom setting.

LAW 3012

Advanced Public Law

- 4 units - not offered in 2005
- 40 hours
- Pre/corequisite: LAW 1001 Introduction to Australian Law
- Assumed Knowledge: LAW 2003 Australian Constitutional Law, LAW 2002 Administrative Laws

On each occasion it is offered the course will comprise an advanced study of selected issues in public law determined on the basis of importance, complexity, current relevance and staff availability and interest. Topics may include, but will not be limited to, a more detailed examination of some of the issues examined in the core public law courses in the LLB curriculum (for example Australian constitutional law, administrative laws, law of crime, corporate law) so as to develop a more advanced conceptual understanding of the underpinnings of the principles of public law including, for example, such matters as theories of constitutionalism; republicanism; the relationship between law and community; the principle of proportionality; the public/private distinction; the distinction between constitution/statute/common law; the nature of the judicial function; the nature of legislation; and the nature of the intersection of national and international law.

LAW 3013

Environmental Dispute Resolution

- 2 units - not offered in 2005
- 24 hours
- Prerequisite: LAW 1001 Introduction to Australian Law
- Assumed Knowledge: LAW 2070 Environmental Law
- Assessment: to be advised

An examination of various ways in which environmental disputes are resolved, including through litigation, Commissions of Inquiry and processes of mediation and negotiation. Considerable emphasis will be placed on practical and procedural aspects, including standing rules, requirements concerning security for costs and undertakings as to damages. Involvement of judges, practitioners and mediators will be procured as far as possible.

LAW 3014

Equality and Anti-Discrimination Law

- 2 units - not offered in 2005
- 20 hours
- Prerequisite: LAW 2003 Australian Constitutional Law
- Assessment: to be advised

The course will examine theories of equality and discrimination and the theoretical framework of anti-discrimination legislation. It will assess the Commonwealth and South Australian anti-discrimination legislation in terms of their conceptual underpinnings, constitutional basis, legislative structure, procedures and remedies. A comparative approach to this assessment will be adopted, through an examination of North American and European approaches to Equality and Anti-Discrimination law. The focus will be on the specific grounds such as; sex , sexuality and race. The course will evaluate law's response to and its limits in addressing discrimination.

LAW 3015

International Environmental Law

- 4 units - not offered in 2005
- 40 hours
- Prerequisite: LAW 1001 Introduction to Australian Law
- Assumed Knowledge: LAW 3066 Public International Law or LAW 1006 Introduction to Public International Law
- Assessment: to be advised

The course examines the development and current content of international environmental law. The course will focus on the sources of international environmental law against the underlying framework of principles of this rapidly development area of the law. The course will consider the following issues; sustainable development, the precautionary principle, biodiversity; the relationship between development and human rights, the

relationship between trade and the environment, transboundary pollution, global warming and ozone depletion and international management regimes for common resources such as the world's oceans and the Antarctic.

LAW 3016
Comparative Law

- 4 units - semester 1
- 24 hours
- Prerequisite: LAW 1001 Introduction to Australian Law
- Assumed Knowledge: LAW 1002 Law of Torts, LAW 1003 Law of Contract
- Assessment: exam, part A - multiple choice questionnaire 50%, part B - essay questions 50% - 3000 word essay may be presented in lieu of part B

This course will cover the following topics: comparative law as an academic discipline; the world's families of legal systems; comparative evaluation of the merits of differing legal solutions to social problems; legal history and comparative law; law understood as divine revelation and law as a human creation (exemplified by an analysis of the roots of European and North American law and a survey of the history and present day practice of Islamic law); the impact of the philosophy of the Enlightenment on European and North American law (the theory and practice of human rights and the codification movement in civil law and common law countries); codified and uncodified law, highlighting prominent features of civil law and common law systems, eg, the rule of precedent (common law), reliance on good faith (civil law) and differing standards of interpretation of statute law; the investigatory civil procedure (civil law) and the adversarial civil procedure (common law). Selected civil law judgments (translated into English) and common law judgments which have similar fact patterns will be compared.

LAW 3017
Technology Law

- 4 units - semester 1
- 2 hour research seminars & presentations
- Available for Non-Award study
- Quota may apply
- Prerequisite: LAW 2059 Intellectual Property Law
- Assessment: 5000 word essay 70%, class presentation 20%, class participation 10%

This course will consider how the law impacts on technology - both by regulation and facilitation. The roles of statute, tort and contract will be considered, along with comparative and trans-national approaches and extra-legal means of control of technology. These general issues will be considered in the context of topics such as the following: the Internet (censorship, datacasting, communications, electronic transactions, cybercrime, spam); Privacy (IT and surveillance related issues, genetic testing); Biotechnology (gene technology, assisted reproduction technologies, cloning, stem cells, novel foods); Future issues..

Students are required to make a presentation to the call on a relevant topic of their choosing (not necessarily on of those covered in the core materials) - this topic can then be expanded in the essay submission.

LAW 3018
Comparative Native Title: Australia & Canada

- 2 units - not offered in 2005
- 20 hours
- Prerequisite: LAW 1001 Introduction to Australian Law
- Assumed Knowledge: LAW 2003 Australian Constitutional Law, LAW 1005 Property Law
- Assessment: to be advised

'Native title has profound implications for real property law in Australia and Canada'. The primary objective of this course is to explore this statement. To do that, the course is divided into two parts. In the first part, students will examine the range of techniques available in Australia and Canada for the recognition and protection of native title. These techniques include judicial and legislative responses, quasi-constitutional documents such as treaties, constitutional provisions that guarantee rights, and the establishment of semi-autonomous institutions for indigenous self-government. In the second part of the course, students will identify and consider the ways in which the recognition of native title requires a reassessment of the foundations of real property law in Australia and Canada.

LAW 3020
Public Interest Litigation

- 4 units - not offered in 2005
- Available for Non-Award study
- Quota may apply
- Prerequisite: LAW 1001 Introduction to Australian Law
- Assumed Knowledge: LAW 2002 Administrative Law, LAW 2003 Australian Constitutional Law
- Assessment: 1500 word seminar paper 20%, class participation 20%, 5000 word research essay 60%

This course focuses on the law and procedural issues in using legal process to determine rights where personal rights are not at stake.

LAW 3021
Capital Gains Tax and the Taxation of Entities

- 2 units - not offered in 2005
- 20 hours
- Prerequisite: 2011 Tax and the Revenue Concept
- Assessment: exam

This course will cover the provisions of part 3.1 and 3.2 of the Income Tax Assessment Act 1997, which relates to Capital Gains Tax. In addition, this course will deal with tax accounting, income assignments and the taxation of entities (in particular partnerships, companies and trusts) and tax avoidance.

LAW 3022

Immigration and Refugee Law

- 2 unit - semester 1
- Prerequisite: LAW 1001 Introduction to Australian Law
- Assumed Knowledge: LAW 2002 Administrative Law
- Assessment: participation 20%, working group presentation 40%, 2000 word assignment 40%

The focus is on the role of law in immigration control and refugee admission. The course examines in detail the present law in relation to the main visa classes granting temporary and permanent protection to asylum seekers in Australia. The course will also provide an introduction to the Australian immigration system, its history, and the principal visa categories. Particular attention will be drawn to the legal status of unlawful non-citizens in Australia, rights of appeal and review, and the jurisprudence of the Federal Court, Migration Review Tribunal and Refugee Review Tribunal. Overseas asylum systems and case law will also be referred to.

LAW 3025

Statutory Interpretation

- 4 units - winter intensive semester
- 36 hours
- Available for Non-Award study
- Quota may apply
- Prerequisite: LAW 1001 Introduction to Australian Law
- Assessment: participation 20%, 1500 word discussion paper & seminar presentation 30%, 3000 word research paper (5,000 words for honours admission) 50%

Introduction to the course: historical background; Literal and intention based interpretation of statutes; The revolution of the 1980s as regards purpose and use of extrinsic materials; The importance of context in understanding statutes; The impact of amendments to head legislation: interpreting the final product; The effect of legislation in time: can a statute operate to change the legal state of affairs in the past?; Statutory provisions against a backdrop of existing common law rights and presumptions; When may a court 'read" words into a statute?; Drafting styles and possible different approaches to communication of statutory values: fuzzy law.

LAW 3028

Regulation of Competition

- 4 units - summer semester
- 36 hours
- Available for Non-Award study
- Prerequisite: LAW 1001 Introduction to Australian Law
- Assumed Knowledge: LAW 2003 Australian Constitutional Law, LAW 2002 Administrative Laws
- Assessment: to be advised

A study of the encouragement, supervision and regulation of competition in Australia, with a particular focus upon the abuse of positions of market power and other restrictive trade practices such as anti-competitive cartels. The course will also examine the role of the ACCC in enforcement & administration of the Trade Practices Act 1974, as well as the provisions for administrative authorisation of some anti-competitive conduct on public benefit grounds. A particular focus will be placed upon recent developments, including structural reforms in the light of post Hilmer competition policy.

LAW 3029

Corporate Finance

- 4 units - not offered in 2005
- 40 hours
- Prerequisite: LAW 2004 Corporate Law
- Assessment: exam 100%, or exam 60% & 3000 word essay 40%, or exam 40% & 5000 word research paper 60%

This course deals with the following aspects of the law relating to financial products and markets: Types of investment capital: debt and equity; Restructuring a company's share capital: reductions of capital and share buy-backs; Investment capital raising: the fund raising provisions of the Corporations Act; The regulation of managed investment schemes.

LAW 3044

Labour and Industrial Relations Law

- 4 units - semester 2
- 40 hours
- Prerequisite: LAW 1001 Introduction to Australian Law
- Assumed Knowledge: LAW 2003 Australian Constitutional Law, LAW 1003 Law of Contract, LAW 1002 Law of Torts
- Assessment: to be advised

The course will focus on the legal regulation of work relationships, both individual and collective, through an examination of the common law, statute, and international law. Topics include: a) the changing nature of work and law in the Australian and global context; b) the formation of work relationships: including the

contract of employment, contract for services including an examination of non-standard work relations; c) industrial awards and conciliation and arbitration: including the nature of test cases and awards as part of the 'safety net', the roles of the Australian Industrial Relations Commission and the South Australian Industrial Relations Commission, the "public interest" in industrial regulation, the role of trade unions and the legal concept of "industrial dispute"; d) equality in work relations: including the intersection of anti-discrimination law and the law regulating work, equality and enterprise bargaining; e) the law governing the breakdown of work relationships and security of employment: including at common law and the statutory provisions relating to the termination of employment; f) bargaining under the statutory system: including enterprise and collective agreements, parties and the role of trade unions, individual agreements and Australian Workplace Agreements, and protections for disadvantaged groups of workers; and g) freedom of association: including international law and freedom of association, individual and collective aspects of the statutory protection of freedom of association, strikes as part of the bargaining process, common law liability for strike action.

LAW 3047
Environmental Protection Law

- 4 units - not offered in 2005
- 40 hours
- Prerequisite: LAW 2070 Environmental Law
- Assessment: to be advised

This course examines measures for the protection of the environment from pollution, including hazardous substances. It includes a consideration of international controls, but focuses primarily on the Environment Protection Act 1993 (SA) and related measures. Both the land and marine environment will be covered. Specific topics include air and water pollution, noise control; waste management; the regulation of hazardous substances; and land contamination.

LAW 3049
Comparative Corporate Law and Theory

- 2 units - not offered in 2005
- 20 hours
- Prerequisite: LAW 2004 Corporate Law
- Assessment: to be advised

An examination and comparative analysis of corporations law in Australia, United States and Japan. The analysis will focus on key doctrinal concepts as well as statutory provisions regarding attributes of corporate personality; corporate governance; and institutional supervision of corporate behaviour.

LAW 3060
Comparative Corporate Rescue Law

- 2 units - not offered in 2005
- 20 hours
- Assumed Knowledge: completion/concurrent study of LAW 2004 Corporate Law is advisable
- Assessment: 3500-5000 word research essay

The aim of the course is to identify the role of insolvency law regimes in the global corporate environment, with particular emphasis on formal and informal rehabilitation processes for corporations experiencing financial difficulties. The course will cover the following topics as they relate to corporate rescue systems operating in the major trading regions of the world: when is rehabilitation appropriate? access to the process; protection afforded to the company on entering into the process; formulating a rehabilitation plan; the role of an independent administrator in the process; the role of creditors, members, and company officers in the process; the role of the court; informal v formal rehabilitation processes.

LAW 3065
Land and Water Resources Law

- 4 units - not offered in 2005
- 40 hours
- Prerequisite: LAW 1001 Introduction to Australian Law
- Assumed Knowledge: LAW 2070 Environmental Law
- Assessment: to be advised

An examination of how the principles of sustainable resource use may be applied through the legal system in relation to the management of land and water resources. Measures examined in relation to land management include common law doctrines and the effect of native title; soil conservation legislation; the use of tenurial systems especially in the arid zone; vegetation clearance controls and land management agreements. In relation to water resources the course examines the institutional structures for water management in Australia, including the Murray-Darling Basin arrangements; State and Federal Law relating to the allocation of both surface water and groundwater; the regulation of water quality; the common law doctrine of riparian rights; the concept of integrated catchment management; and a brief overview of river basin management schemes in other countries.

LAW 3066

Public International Law

- 4 units - semester 2
- 36 hours
- Prerequisite: LAW 1001 Introduction to Australian Law
- Restriction: not to be presented with LAW 1006 Introduction to Public International Law
- Assessment: 5000 word essay

The basic course in public international law includes the following topics: The nature, function and relevance of international law, the structure of the international community, the sources of international law, the relationship between international law and municipal law, the participants in the international legal system, jurisdiction, state responsibility, use of force.

LAW 3069

Corporate Governance

- 2 units - not offered in 2005
- 24 hours
- Prerequisite: LAW 1001 Introduction to Australian Law
- Assumed Knowledge: LAW 2004 Corporate Law
- Assessment: to be advised

The complex of legal rules and constitutional provisions which regulate the internal affairs of public and proprietary companies; distinguishing between ownership and management; the personnel of corporate governance; the distribution of corporate powers between members and directors; proceedings of the board; membership and meetings; the duties and liabilities of directors and officers; directors' and officers' insurance; controlling shareholders' duties; the role of the corporate investor; shareholder remedies for violation of corporate powers.

LAW 3071

Conservation Law

- 4 units - not offered in 2005
- 40 hours
- Prerequisite: LAW 2070 Environmental Law
- Assessment: to be advised

Analyses and discusses law and policy applicable to the conservation of Australia's natural and built heritage and the conservation of fundamental natural resources. The philosophy of conservation including the role of law, economics and science; conservation of biological biodiversity at the international, national and regional levels; conservation through reserved areas including national parks and world heritage areas; the National Estate concept; conservation of natural resources (land, water, air and marine).

LAW 3080

Clinical Legal Education

- 4 units - semester 1 or 2, occasional summer semester*
- 18 internal, approx. 80 placement hours
- Prerequisite: LAW 1001 Introduction to Australian Law, LAW 1002 Law of Torts, LAW 1003 Law of Contract, completion of 54 units of LLB, and for some placements will include Litigation Practice and Civil and Criminal Procedure, Administrative Law, or Family Law
- Assessment: journal 50%, project 30%, journal exercises 20%

The course is designed to demonstrate the operation of theoretical and doctrinal law in a legal environment. Students are placed for one day per week in a legal office, supervised by a legal practitioner, and participate actively in all aspects of the work at the office, including case work. The Law School also offers placements at legal advice clinics run by Flinders and Adelaide Law Schools at the Adelaide Magistrates Court. The concurrent seminar program builds on students' experiences on placement, examining issues such as lawyer/client relationships, legal ethics, professionals and professions, justice access, and the role of our legal system in society.

* When the course is offered over summer it entail 2 days of placement each week for 6 weeks between January and the end of February.

LAW 3090

Planning and Heritage Law

- 2 units - not offered in 2005
- 24 hours
- Prerequisite: LAW 1001 Introduction to Australian Law
- Assumed Knowledge: LAW 2070 Environmental Law
- Assessment: to be advised

Examines regulatory mechanisms designed to give effect to the goals of planning and controlling the use and development of land, with particular reference to South Australia; to provide an understanding of the role and limits of regulation and the balance between public and private decision-making in relation to land-use. The focus of this course is upon the control of land development under the South Australian planning system and State Heritage legislation. The course commences with an examination of the historical evolution of the planning system, and then considers the nature of the planning procedures under the Development Act 1993 and of controls imposed thereunder. It examines the powers and procedures of planning authorities, and, through the seminar program, it considers the methods of dealing with selected planning issues, including shopping, housing segregation and aesthetics. The effect of heritage controls is then examined. The course also considers the role of appeal tribunals and public participation procedures; alternative modes of planning; control of government development, particularly transport; and responsibility

for housing. The course concentrates upon legal analysis of planning and heritage problems.

LAW 3098
Corporate Insolvency Law

- 4 units - not offered in 2005
- 40 Hours
- Prerequisite: LAW 2004 Corporate Law
- Assessment: to be advised

Policies and principles underlying corporate insolvency systems; modes of winding up; property available for distribution to creditors in a winding up; claims of creditors in winding up; the liquidator - powers, duties, liabilities; corporate rescue under the Corporations Law - the voluntary administration procedure; the nature and operation of corporate receivership.

Honours

LAW 3089
Honours Research and Writing

- 2 units - semester 1 or 2
- Eligibility: available only to approved honours Law students
- Assessment: attendance, participation in program & classes, identification of subject of dissertation and conduct of preliminary research, peer review presentation, preparation of synopsis to approval of supervisor

This course will introduce students who have been admitted to the honours dissertation program to advanced legal research and writing. In it students will participate in a structured program that will enable and assist them to identity the subject of their dissertation, and gain the skill necessary to enable them to undertake preliminary preparatory to the writing of the honours dissertation.

LAW 3099
Dissertation Honours Law

- 6 units - semester 1or 2
- Eligibility: available only to approved honours Law students
- Prerequisite: LAW 3089 Honours Research and Writing
- Assessment: 10000-12000 word dissertation

Candidates are required to conduct research on an approved topic and write an honours dissertation The dissertation will be assessed in accordance with the procedures set out in the Honours Guidelines as determined by the Law School.

Level IV

LAW 4041
Wine Law

- 4 units - not offered in 2005
- 40 hours
- Prerequisite: LAW 1001 Introduction to Australian Law
- Assumed Knowledge: LAW 1002 Law of Torts, LAW 1003 Law of Contract
- Assessment: class participation, 5000 word essay

This course aims to foster an understanding of the legal framework in which the wine industry operates both domestically and internationally. It examines a number of legal issues of commercial concern to grape growers, wine producers, wine whole-salers and wine retailers. Issues included are: basic licensing requirements for establishing a vineyard, retail outlet and restaurant; business organisations and relationships; transactions among wine industry participants (including e-commerce); protection of commercial identity; wine label law, product liability, environmental and planning law, biotechnology rights, and export control.

LAW 4144
International Justice and the Rule of Law

- 4 units - summer semester
- 36 hours
- Available for Non-award study
- Prerequisite: LAW 1001 Introduction to Australian Law
- Assessment: participation 20%, working group project presentation 30%, 3000 word research paper 50%

This course examines the various paths countries take to move from conflict, dictatorship or apartheid to reestablishing the rule of law. The aim is to undertake a comparative analysis of these paths and to study their strengths and weakness. While it is generally accepted that there is no 'one size fits all' formula (as each conflict involves a myriad of factors), the challenge is to see whether countries can learn anything from each other's experiences. The course will examine and compare the measures used in the following countries: South Africa, Bosnia and Herzegovina, East Timor, Afghanistan, Rwanda, Guatemala, Sierra Leone, Cambodia, Kosovo and Iraq. The processes of constitution-making, prosecutions, truth commissions, reform of the justice system including the courts, police force and military, and the promotion of human rights in these countries will be scrutinised, particularly with respect to the role of the UN, NGOs governmental institutions and local communities.

Linguistics

Level I

LING 1101

Foundation of Linguistics

- 3 units - semester 1
- 2 hour lecture, 1 tutorial per week
- Available for Non-Award study
- Assessment: 1000 word essay, 3 practicals, 2 x 500 word reviews, test

Linguistics is the study of human language, its nature, its origins and its uses. This course will give students an overview of the field of modern linguistics, basic skills in data gathering and analysis and an understanding of the educational, political and social aspects of language. As language is involved in a large number of human activities, linguistics contributes to many other fields of inquiry, including anthropology, psychology, philosophy, law and the natural sciences.

LING 1102

Language and Ethnography of Communication

- 3 units - semester 2
- 2 hour lecture, 1 tutorial per week
- Available for Non-Award study
- Assessment: 1500 word essay, 3 practicals, 2 x 500 word reviews, test

This course provides the theoretical foundations and basic methods commonly employed in the analysis of human communication, i.e. meaningful human behaviour. Students will become familiar with both linguistic/semiotic and ethnographic approaches to describing and understanding complex communicative events. The lectures will be concerned with a range of message forms: spoken, written, pictorial and others across a range of cultures and will discuss interpersonal as well as intercultural communication. On completion of this course students will have an understanding of the central debates in communication studies as well as skills to analyse communicative behaviour.

Level II

LING 2006

Language and Meaning

- 4 units - semester 1
- 2 hour lecture, 1 tutorial per week
- Prerequisite: 6 units Level I Humanities/Social Sciences
- Assessment: three essays

Language is embedded in everyday actions as it is used to carry out different functions. The purpose of this course is to investigate the linguistic choices which differentiate uses of language, for example the differences between spoken and written text, between academic discourse and informal language. Students are introduced to the analysis of spoken and written language using functional grammar.

LING 2009

Australian Indigenous Languages

- 4 units - semester 2
- 2 hour lecture, 1 tutorial per week
- Prerequisite: 6 units Level I Humanities/Social sciences
- Assessment: 4 practical task 10% each, 1500 word essay 25%, 2 hour test 25%, attendance & participation 10%

The course will provide an introduction to Australia's Indigenous languages, with a particular focus on the Indigenous languages of South Australia. The course will be delivered in collaboration with Indigenous groups and will be a source of affirmation for Indigenous students. It will deal with linguistic and sociolinguistic aspects of traditional and modern Indigenous languages and will give students practical experience in their analysis.

LING 2030

Language and Communication Planning

- 4 units - semester 1
- 2 hour lecture, 1 tutorial per week
- Prerequisite: 6 units Level I Humanities/Social Sciences
- Assessment: 1500 word essay, 1000 word chapter for a joint research project, practical assignment

Rapidly changing communication technology, global mobility, the emergence of supranational units such as the EU as well as the rapid decline in the world's linguistic diversity are issues that require planning and management. The coverage of the course ranges from microplanning in private organisations (eg designing standard labelling or form letters) to language policies for Australia or International bodies. As the benefits of planning communication become clearer this subfield of applied linguistic and communication studies is likely to become increasingly important. Students will gain an understanding of the issues and familiarity with a wide range of approaches and practical skills. Special emphasis will be given to the question of maintaining endangered Indigenous language in the age of language globalisation.

LING 2033

Language, Communication and Technology

- 4 units - semester 2
- 2 hour lecture, 1 tutorial per week
- Prerequisite: 6 units Level I Humanities/Social Sciences
- Assessment: 2 assignments including a practical project

Technoliteracy has become essential for many workplaces, including business, industrial and educational contexts. The use of computers has developed new patterns of communication and interaction. This course is designed for students to develop skills in applications of information technology. The course begins with a practical introduction to the use of computers for communication. Students develop skills in the use of electronic environments for accessing, creating and negotiation management. The course covers the development of students' technical skills as well as the design of electronic environments for communication. Students explore the nature of technoliteracies. They are introduced to the design and building of websites. Students have the opportunity to collaborate and to develop projects with practical applications in industry.

Level III

LING 3006

Language and Meaning

- 6 units - semester 1
- 2 hour lecture, 1 tutorial per week
- Prerequisite: 8 units Level II Humanities/Social Sciences
- Assessment: 3 essays

Language is embedded in everyday actions as it is used to carry out different functions. The purpose of this course is to investigate the linguistic choices which differentiate uses of language, for example the differences between spoken and written text, between academic discourse and informal language. Students are introduced to the analysis of spoken and written language using functional grammar.

LING 3009

Australian Indigenous Languages

- 6 units - semester 2
- 2 hour lecture, 1 tutorial per week
- Prerequisite: 8 units Level II Humanities/Social Sciences
- Assessment: 4 practical tasks 10% each, 2500 word essay 25%, 2 hour test 25%, attendance and participation 10%

The course will provide an introduction to Australia's Indigenous languages, with a particular focus on the Indigenous languages of South Australia. The course will be delivered in collaboration with Indigenous groups and will be a source of affirmation for Indigenous students. It will deal with linguistic and sociolinguistic aspects of traditional and modern Indigenous languages and will give students practical experience in their analysis.

LING 3030

Language and Communication Planning

- 6 units - semester 1
- 3 hours per week
- Prerequisite: 8 units Level II Humanities/Social Sciences
- Assessment: 2000 word essay, 1000 word chapter for a joint research project, practical assignment

Rapidly changing communication technology, global mobility, the emergence of supranational units such as the EU as well as the rapid decline in the world's linguistic diversity are issues that require planning and management. The coverage of the course ranges from microplanning in private organisations (eg designing standard labelling or form letters) to language policies for Australia or International bodies. As the benefits of planning communication become clearer this subfield of applied linguistic and communication studies is likely to become increasingly important. Students will gain an understanding of the issues and familiarity with a wide range of approaches and practical skills. Special emphasis will be given to the question of maintaining endangered Indigenous language in the area of language globalisation.

LING 3033

Language, Communication and Technology

- 6 units - semester 2
- 3 hours per week
- Prerequisite: 8 units Level II Humanities/Social Sciences
- Assessment: 2 assignments including a practical project

Technoliteracy has become essential for many workplaces, including business, industrial and educational contexts. The use of computers has developed new patterns of communication and interaction. This course is designed for students to develop skills in applications of information technology. The course begins with a practical introduction to the use of computers for communication. Students develop skills in the use of electronic environments for accessing, creating and negotiation management. The course covers the development of students' technical skills as well as the design of electronic environments for communication. Students explore the nature of technoliteracies. They are introduced to the design and building of websites. Students have the opportunity to collaborate and to develop projects with practical applications in industry.

Honours

LING 4401

Honours Linguistics

- 24 units - full year
- Prerequisite: UG degree, credit average in courses contributing to a major in Linguistics, or equiv. approved by Head of Discipline
- Assessment: coursework 50%, thesis 50%

- Students wishing to take Honours Linguistics should consult the Professor of Linguistics to ensure appropriate course choices

In some circumstances Honours Linguistics can be studied part-time over two years or can be combined with Honours in another discipline.

Management

Level II

COMMGMT 2007
Organisational Behaviour II

- 4 units - semester 2
- 2 lectures, 1 tutorial per week
- Available for Non-Award study
- Assumed Knowledge: successful completion of at least one semester of university study
- Assessment: exam, assignments, tutorial participation & contribution as determined at the first lecture

This course draws on individual factors, group processes, and features of the organisation to understand the behaviour of people at work. Topics include workforce diversity, values, personality, emotions, motivation, group behaviour, work and life stress, conflict, communication, power and politics, organisational culture, structure and work design, and organisational change.

COMMGMT 2008
Management II

- 4 units - semester 1
- 2 lectures, 1 tutorial per week
- Available for Non-Award study
- Assumed Knowledge: successful completion of at least one semester of university study
- Restriction: not to be counted with Management Principles and Practice II
- Assessment: written exam not less than 50%; essays, tutorial participation & contribution as determined at first lecture

This course introduces students to the challenges of management and the roles and functions of managers. The content will include an introduction to organisations and the need for management as well as to the development and evolution of management theory. The course will examine types and levels of managers, as well as their organisational and natural environments. It will investigate the process of management, including planning and decision making, organising, leading and motivating, and controlling. Other issues covered may include international management and the global economy, social responsibility and ethics, and other emerging issues in management.

Level III

COMMGMT 3001
International Management III

- 4 units - semester 1
- 2 lectures, 1 tutorial per week
- Available for Non-Award study
- Assumed Knowledge: fundamentals of Management as taught in COMMGMT 2008 Management II - students without this background are advised not to enrol in this course
- Assessment: exam, assignments as determined at first lecture

The objective of this course is to provide students with a basic understanding of the fundamental principles and practices of International Management. The course focuses on the foundations of international management, the role of culture, international strategic management, organisational behaviour, people management and ethical and socially responsible behaviour in multinational corporations. There will be a focus on appropriate theory and the course will aim to provide opportunities for the practical implementation of the main concepts covered.

COMMGMT 3007
Strategic Management III

- 4 units - semester 2
- 2 lectures, 1 tutorial per week
- Available for Non-Award study
- Assumed Knowledge: completion of all level I & II courses in relevant degree program - students without this background are advised not to enrol in this course
- Assessment: exam, assignments as determined at first lecture

This course addresses the strategic management of organisations, including the formulation of longer term strategic directions, the planning of objectives and supporting strategies, and the control of strategic implementation. It provides students with an understanding of the approaches and tools for planning and controlling strategy at the organisation and sub-unit levels, as well as experience in case analysis and practical application of planning and control skills. Topics include evaluating the strategic environment, industry and competitive analysis, formulating mission and setting objectives, strategy selection and implementation, and strategic control. Also considered are specialist issues in strategic management such as technology and not-for-profit organisation management, small enterprise and green strategies.

COMMGMT 3014

Human Resource Management III

- 4 units - semester 1
- 2 lectures, 1 tutorial per week
- Available for Non-Award study
- Prerequisite: COMMGMT 2007 Organisational Behaviour II (at least 45%)
- Assessment: written exam not less than 50%, assignments as determined at first lecture

It is generally agreed that, while most serious competitors in any given industry are likely to have attained nearly the same level of technological sophistication, what can set these organisations apart is the quality of their people. Thus, other things being equal, the most effective organisations (in terms of productivity, customer service, reputation etc.) are likely to be those that have the most dedicated and talented employees. Human Resource Management (HRM) is that part of management which is concerned with how organisations can make the most effective use of their human resources - their people - in order to achieve organisational and individual goals. The aim of this course is to provide students with an understanding of contemporary HRM and the important strategic role that it plays in helping an organisation build and maintain competitive advantage. More specifically, the course will examine HR policies, practices, and systems in the areas of: planning and recruitment; employee selection; training and development; performance management; compensation; employee relations; equal opportunity; employee security and safety; employee separation; and international HRM.

Marketing

Level II

MARKETNG 2009

Marketing II

- 4 units - semester 1
- 2 lectures, 1 tutorial per week
- Available for Non-Award study
- Assumed Knowledge: successful completion of at least one semester of university study
- Restriction: not to be counted with Marketing Management II
- Assessment: exam, assignments as determined at first lecture

The course aims to provide students with an understanding of marketing management and practices. The course introduces the marketing functions within profit and not-for-profit organisations and looks at the processes available to manage these functions. It will include topics such as environmental analysis, industry and competitor analysis, objective setting, marketing strategies, marketing mix components, implementation and control mechanisms. In addition, students will be introduced to marketing practice via an audit of a company.

MARKETNG 2011

Consumer Behaviour II

- 4 units - semester 2
- 2 lectures, 1 tutorial per week
- Available for Non-Award study
- Assumed Knowledge: MARKETNG 2009 Marketing II. Students without this background are advised not to enrol in this course
- Restriction: not to be counted with Consumer Behaviour III
- Assessment: exam, assignments as per course outline

This course introduces the theory of consumer behaviour and relates it to the practice of marketing. It will present relevant material drawn from psychology, anthropology, social and behavioural sciences within the framework of the consumer decision process and its main influencing factors.

Level III

MARKETNG 3000

Marketing Communications III

- 4 units - semester 1
- 2 lectures, 1 tutorial per week
- Available for Non-Award study
- Prerequisite: MARKETNG 2009 Marketing II
- Assumed Knowledge: MARKETNG 2011 Consumer Behaviour II - students without this background are advised not to enrol in this course
- Assessment: exam, assignments as per course outline

The course aims to provide students with an understanding of the communication aspects of marketing. It will cover the range of tools available to marketers for the purpose of promotion such as advertising, sales promotion, personal selling, sponsorship, publicity and public relations as well as the process by which these are integrated and planned.

MARKETNG 3015

International Marketing III

- 4 units - semester 2
- 2 lectures, 1 tutorial per week
- Available for Non-Award study
- Prerequisite: MARKETNG 2009 Marketing II
- Assumed Knowledge: MARKETNG 2011 Consumer Behaviour II
- Assessment: group work on case studies, major project, class participation, final exam

This course is designed to introduce you to modern marketing philosophies and practices associated with international marketing. The purpose is to provide the student with a practical overview of the international marketing process and its basis in both theory and application. In brief, international marketing is concerned with the planning and conducting of transactions across national borders to satisfy the objectives of individuals and organisations. In its many forms, it ranges from export-import trade to licensing, joint ventures, wholly-owned subsidiaries, turnkey operations and management contracts. This course will provide experience in formulating marketing strategy in a variety of international situations. It spotlights the special marketing problems posed by export markets and examines the special marketing management problems faced by multinational organisations. Principle issues include the importance of culture in international marketing, the economic, political and cultural environments affecting the international marketing process, global marketing strategy and research and the four 'Ps' of international marketing.

MARKETNG 3017
Market Research and Project III

- 4 units - semester 2
- 2 lectures, 1 tutorial per week
- Available for Non-Award study
- Prerequisite: MARKETNG 2009 Marketing II
- Assumed Knowledge: MARKETNG 2011 Consumer Behaviour II
- Restriction: not to be counted with Market Research & Project II
- Assessment: group project report 45%, group presentation 5%, final exam 50%

This course will provide students with an in depth understanding of market research. Students will be involved in a practical application of market research via a group project which will focus on a real company situation. In particular, students will write a research brief, determine the research methodology and conduct interviews and surveys as required. Students will be responsible for presenting their findings in both written and oral form to their clients.

Mathematics

Level I

APP MTH 1000
Scientific Computing I

- 3 units - semester 1
- 5 lectures per 2 weeks, 2 hours practical every week
- Available for Non-Award study
- Prerequisite: SACE Stage 2 Mathematical Studies or equiv.
- Restriction: cannot be counted together with COMP SCI 1004 Computer Literacy I, CHEM ENG 1002 Engineering Computing I, MATHS 1002 Quantitative Methods Using Computers I or APP MTH 2005 Financial Computing II
- Assessment: exam, assignment

This course introduces three approaches useful in practical applications of computing. Comparisons between the three approaches will be made by using common problems from areas including Science, Engineering and Finance.

Microsoft Excel (approx. 6 lectures): Simple spreadsheets using in-built functions; optimisation using the Goal-Seek tool; finding roots using the Solver tool; data analysis. MATLAB (approx. 9 lectures): graphics, matrix computations, in-built functions, programming in MATLAB. ANSI C Programming (approx. 15 lectures): Basic C programming: data types, arithmetic and mathematical functions, flow control, arrays. Functions: passing information to and from functions. Pointers: pointer arithmetic, the relationship between arrays and pointers. File handling: opening and closing files, reading from and writing to files.

MATHS 1008
Mathematics for Information Technology I

- 3 units - semester 2
- 4 lectures, 1 tutorial, 1 hour computing laboratory session a week using the mathematical package Matlab.
- Assumed Knowledge: SACE Stage 2 Specialist Mathematics
- Restriction: cannot be counted with PURE MTH 1004 Mathematical Applications I
- Assessment: 3 hour exam, percentage based on weekly assignments and computing work

This course provides an introduction to a number of areas of discrete mathematics with wide applicability. Areas of application include: computer logic, analysis of algorithms, telecommunications, gambling and public key cryptography.

The course includes discrete mathematics: sets, relations, logic, graphs, mathematical induction and difference equations; probability: sample spaces, events, discrete random variables and distributions; information security and encryption: prime numbers, congruences.

It is recommended for students intending to study Discrete Mathematics II, Algebra II, Operations Research II or undertake studies in Statistics or Computer Science.

MATHS 1009
Introduction to Financial Mathematics I

- 3 units - semester I
- 4 lectures, 1 tutorial per week and a number of computer practicals using mathematical package Matlab
- Available for Non-Award study
- Eligibility: not available to students in B.Ma.& Comp.Sc.

- Restriction: cannot be presented with ECON 1005 Mathematics for Economists I, MATHS 1011 Mathematics IA, MATHS 1012 Mathematics IB, MATHS 1013 Mathematics IMA or MATHS 1014 Mathematics IMB
- Assessment: 3 hour exam; small percentage allocated to weekly assignments, tests

Together with Applications of Quantitative Methods in Finance I, this course provides an introduction to the basic mathematical concepts and techniques used in finance and business and includes topics from calculus, linear algebra and probability, emphasising their inter-relationships and applications to the financial area; introduces students to the use of computers in mathematics; develops problem solving skills with a particular emphasis on financial and business applications. Polynomial, logarithmic functions. Interest rates and annuities. Linear Equations and matrices. Linear programming.

MATHS 1010
Applications of Quantitative Methods in Finance I

- 3 units - semester 2
- 4 lectures,1 tutorial per week and a number of computer practicals using mathematical package Matlab
- Available for Non-Award study
- Eligibility: not available to students in B.Ma.& Comp.Sc.
- Prerequisite: MATHS 1009 Introduction to Financial Mathematics I (Pass Div 1)
- Restriction: cannot be presented with MATHS 1011 Mathematics IA, MATHS 1012 Mathematics IB, MATHS 1013 Mathematics IMA or MATHS 1014 Mathematics IMB
- Assessment: 3 hour exam; small percentage allocated to weekly assignments, tests

Together with MATHS 1009 Introduction to Financial Mathematics I, this course provides an introduction to the basic mathematical concepts and techniques used in finance and business and includes topics from calculus, linear algebra and probability, emphasising their inter-relationships and applications to the financial area; introduces students to the use of computers in mathematics; develops problem solving skills with a particular emphasis on financial and business applications.

Calculus: differential and integral calculus with applications; functions of two real variables. Probability: basic concepts, conditional probability; probability distributions and expected value with applications to business and finance.

MATHS 1011
Mathematics IA

- 3 units - semester 1 or 2
- 4 lectures, 1 tutorial each week, number of computer practicals using mathematical package Matlab
- Available for Non-Award study
- Prerequisite: SACE Stage 2 Mathematical Studies & Specialist Mathematics
- Restriction: may not be presented with MATHS 1001 Mathematics IH, or MATHS 1000A/B Mathematics IM, or MATHS 1007A/B Mathematics I or MATHS 1013 Mathematics 1MA or MATHS 1014 Mathematics 1MB
- Assessment: 3 hour exam, small percentage allocated to weekly assignments, tests

This course, together with MATHS 1012 Mathematics 1B, provides an introduction to the basic concepts and techniques of calculus and linear algebra, emphasising their inter-relationships and applications to engineering, the sciences and financial areas; introduces students to the use of computers in mathematics; and develops problem solving skills with both theoretical and practical problems.

Calculus: functions of one variable, differentiation, the definite integral, and techniques of integration. Algebra: Linear equations, matrices, the real vector space determinants, optimisation, eigenvalues and eigenvectors; applications of linear algebra.

MATHS 1012
Mathematics IB

- 3 units - summer semester, semester 1 or 2
- 4 lectures, 1 tutorial each week, number of computer practicals using the mathematical package Matlab.
- Available for Non-Award study
- Prerequisite: MATHS 1011 Mathematics IA (Pass Div I)
- Restriction: may not be presented with MATHS 1000A/B Mathematics IM, MATHS 2004 Mathematics IIM or MATHS 1007A/B Mathematics I
- Assessment: 3 hour exam, small percentage allocated to weekly assignments, tests

This course, together with MATHS 1011 Mathematics IA, provides an introduction to the basic concepts and techniques of calculus and linear algebra, emphasising their inter-relationships and applications to engineering, the sciences and financial areas; introduces students to the use of computers in mathematics; and develops problem solving skills with both theoretical and practical problems.

Calculus: Applications of the derivative; functions of two variables; Taylor series; differential equations. Algebra: The real vector space, eigenvalues and eigenvectors, linear transformations and applications of linear algebra.

MATHS 1013

Mathematics IMA

- 3 units - semester 1
- 4 lectures, 1 tutorial each week, computer practicals using the mathematical package Matlab.
- Available for Non-Award study
- Prerequisite: SACE Stage 2 Mathematical Studies
- Restriction: not available to students who have a combined (subject achievement) score of 34 for SACE Stage 2 Mathematical Studies & Specialist Mathematics (or equiv.), may not be presented with MATHS 1001 Mathematics IH or MATHS 10000A/B Mathematics IM or MATHS 1007A/B Mathematics I
- Assessment: 3 hour exam, small percentage allocated to weekly assignments, tests

This course, together with MATHS 1014 Mathematics IMB, provides an introduction to the basic concepts and techniques of calculus and linear algebra, emphasising their inter-relationships and applications to the sciences and financial areas; introduces students to the use of computers in mathematics; and develops problem solving skills with a particular emphasis on applications.

Calculus: differential calculus with applications; an introduction to differential equations; Algebra: complex numbers; vectors, linear equations and matrices; applications of linear algebra, including optimisation and economic models.

MATHS 1014

Mathematics IMB

- 3 units - semester 2
- 4 lectures, 1 tutorial each week, computer practicals using the mathematical package Matlab.
- Available for Non-Award study
- Prerequisite: Pass in MATHS 1013 Mathematics IMA (Pass Div 1)
- Restriction: may not be presented with MATHS 1000A/B Mathematics IM or MATHS 1007A/B Mathematics I
- Assessment: 3 hour exam, small percentage allocated to weekly assignments, tests

This course, together with MATHS 1013 Mathematics IMA, provides an introduction to the basic concepts and techniques of calculus and linear algebra, emphasising their inter-relationships and applications to the sciences and financial areas; introduces students to the use of computers in mathematics; and develops problem solving skills with a particular emphasis on applications.

Calculus: differential and integral calculus with applications; differential equations; functions of two real variables; Algebra: linear equations and matrices, determinants, eigenvalues and eigenvectors; applications of linear algebra.

Level II

APP MTH 2000

Differential Equations and Fourier Series

- 2 units - semester 1
- 36 hours lectures, tutorials and practicals
- Available for Non-Award study
- Prerequisite: MATHS 1012 Mathematics IB (Pass Div I) or MATHS 2004 Mathematics IIM (Pass Div I) or corequisite MATHS 2004 Mathematics IIM
- Restriction: may not be presented with APP MTH 2007 Differential Equations II and APP MTH 2010 Differential Equations (Civil) or APP MTH 2010 Differential Equations and Statistical Methods (Civil)
- Assessment: exam, assignments

Ordinary differential equations: First order, second order, series solutions. Fourier series for functions of arbitrary period, half range expansions, even and odd functions, complex form of Fourier series. Partial differential equations: heat equation, separation of variables, wave equation, Laplace's equation. Applications in boundary value problems.

APP MTH 2002

Vector Analysis and Complex Analysis

- 2 units - semester 1 or 2
- 36 hours lectures, tutorials and practicals
- Available for Non-Award study
- Prerequisite: MATHS 1012 Mathematics IB (Pass Div I) or MATHS 2004 Mathematics IIM (Pass Div I) or corequisite MATHS 2004 Mathematics IIM
- Assumed Knowledge: Concurrent (or prior) enrolment in APP MTH 2000 Differential Equations and Fourier Series or APP MTH 2007 Differential Equations II
- Restriction: cannot be presented with APP MTH 2006 Methods in Applied Mathematics II
- Assessment: exam, assignments

Vector calculus: vector fields, gradient, divergence and curl. Line, surface and volume integrals, integral theorems of Green Gauss and Stokes, with applications. Orthogonal curvilinear coordinates. Complex analysis: elementary functions of a complex variable, complex analytic functions, complex integrals, Taylor Series, Laurent Series, Residue Theorem.

APP MTH 2003

Modelling with Differential Equations II

- 2 units - semester 2
- 36 hours lectures, tutorials & practicals
- Available for Non-Award study
- Prerequisite: MATHS 1012 Mathematics IB (Pass Div I) or MATHS 2004 Mathematics IIM (Pass Div I)
- Assumed Knowledge: APP MTH 2000 Differential Equations and Fourier Series or APP MTH 2007 Differential Equations II
- Assessment: exam, assignments

This course introduces techniques for the use of differential equations in modelling and in particular provides introduction to nonlinear differential equations and to numerical methods. Laplace Transforms: Laplace Transform techniques are used to solve ordinary and partial differential equations and integral equations. In particular the ability is provided to handle commonly occurring non continuous input functions.

Nonlinear Differential Equations: An introduction to the concepts of phase plane, trajectories and fixed points. Applications include competing population models. Numerical solutions of Differential Equations: Initial value problems, Euler's method and Runge-Kutta method. Application of numerical techniques. Classification of Partial Differential Equations: the Laplace, heat and wave equations. Introduction to scaling and non-dimensionalisation of Partial Differential Equations. Applications of Partial Differential Equations. Numerical Solution of Partial Differential Equations by finite difference methods: explicit and implicit schemes, direct and iterative solution methods.

APP MTH 2004

Numerical Methods in Engineering (Chemical)

- 2 units - semester 2
- 36 hours lectures, tutorials and practicals
- Available for Non-Award study
- Eligibility: not available to students in B.Ma.& Comp.Sc. or B.Comp.Sc.
- Prerequisite: MATHS 1012 Mathematics IB (Pass Div I) or MATHS 2004 Mathematics IIM (Pass Div I)
- Assumed Knowledge: APP MTH 2007 Differential Equations II or APP MTH 2000 Differential Equations and Fourier Series
- Restriction: may not be presented together with APP MTH 2009 Numerical Analysis and Probability and Statistics
- Assessment: exam, computer assignments, satisfactory performance in computing exercises necessary to pass course

A problem-solving course that introduces typical problems met in engineering programs and presents numerical methods to solve these problems. Contents include heat transfer and fluid flow, with methods including numerical solution of ordinary and partial differential equations, solutions of systems of linear and non-linear equations, optimisation problems, and interpolation.

APP MTH 2005

Financial Computing II

- 4 units - semester 1
- 2 hours practical per week, 3 lectures per week at the start of each topic, 2 lectures per week in other weeks
- Available for Non-Award study
- Eligibility: not available to B.Comp.Sci or B.Ma.& Comp.Sc.students
- Prerequisite: SACE Stage 2 Mathematical Studies or equiv.
- Assumed Knowledge: knowledge of spreadsheets, such as would be obtained from STATS 1000 Statistical Practice I, or ECON 1008 Business Data Analysis I
- Restriction: may not be counted with APP MTH 1000 Scientific Computing I or COMP SCI 1004 Computer Literacy I or CHEM ENG 1002 Engineering Computing I or PURE MTH 1002 Quantitative Methods Using Computers I
- Assessment: exam, assignments

This course introduces three approaches that are useful in practical applications of computing. Comparisons between the three approaches will be made, including problems from Mathematical Finance. (i) Microsoft Excel :Simple spreadsheets using in-built functions; optimization using the Goal-seek tool;, finding roots using the Solver tool; data analysis. (ii) MATLAB: graphics, matrix computations, in-built functions, programming in MATLAB. (iii) ANSCI C Programming: Basic C Programming: data types, arithmetic and mathematical functions, flow control, arrays. Functions: passing information to and from functions. Pointers: pointer arithmetic, the relationship between arrays and pointers. File handling: opening and closing files, reading from and writing to files.

APP MTH 2008

Operations Research II

- 2 units - semester 2
- 36 hours lectures, tutorial & practical
- Available for Non-Award study
- Prerequisite:MATHS 1012 Mathematics IB (Pass Div I); or MATHS 2004 Mathematics IIM (Pass Div I)
- Assessment: exam, assignments

Linear Programming: Simplex Algorithm Phase I and Phase II, duality theory and complementary slackness, interpretation of dual variables. Probability and applications: formulation and solution of probability problems in applications. Includes topics from: gambler's ruin, dimensioning teletraffic networks, epidemic modelling, economic applications.

APP MTH 2009

Numerical Analysis and Probability and Statistics

- 2 units - semester 2
- 36 hours lectures, tutorials & practicals
- Available for Non-Award study
- Prerequisite: Prerequisite: MATHS 1012 Mathematics IB (Pass Div I) or MATHS 2004 Mathematics IIM (Pass Div I)
- Restriction: may not be presented together with STATS 2004 Laplace Transforms and Probability and Statistical Methods, STATS 2001 Statistical Methods (Civil), APP MTH 2004 Numerical Methods in Engineering (Chemical), APP MTH 2010 Differential Equations and Stat Methods (Civil)
- Assessment: written exam, computer assignments, satisfactory performance in computing exercises necessary to pass course

Numerical analysis: numerical solution of ordinary and partial differential equations. Probability calculus. Statistical methods: estimation of means and variances; inferences on means; simple analysis of variance; simple linear regression; inferences on probabilities; contingency tables.

APP MTH 2010

Differential Equations and Statistical Methods (Civil)

- 3 units - semester 1
- 51 hours lectures, tutorials and practicals
- Available for Non-Award study
- Eligibility: not available to B.Comp.Sci or B.Ma.& Comp.Sc.students
- Prerequisite: MATHS 1012 Mathematics IB (Pass Div I) or MATHS 2004 Mathematics IIM (Pass Div I) or corequisite MATHS 2004 Mathematics IIM
- Restriction: may not be presented together with APP MATH 2007 Differential Equations II or APP MTH 2000 Differential Equations and Fourier Series, APP MTH 2010 Differential Equations (Civil) or STATS 2001 Statistical Methods (Civil) or APP MTH 2009 Numerical Analysis and Probability and Statistics
- Assessment: exam, assignments

Ordinary differential equations: first order, second order, series solutions. Partial differential equations: heat equation, wave equation, Laplace's equation, separation of variables. Applications in boundary value problems. Probability and statistical methods: sample mean and variance, random variables, distributions, quality control, fitting straight lines.

MATHS 2004

Mathematics IIM

- 4 units - summer semester or semester 1
- 4 lectures, 2 tutorials per week (approx. double in summer semester)- some tutorials will be computing sessions using mathematical package Matlab
- Available for Non-Award study
- Prerequisite: MATHS 1014 Mathematics IMB (Pass Div I) or MATHS 1012 Mathematics IB (Pass Div II)
- Restriction: cannot be counted with MATHS 1012 Mathematics IB. See Academic Program Rules for constraints on this course within the B.Ma. & Comp. Sc. and B.Comp.Sc. degrees
- Assessment: 3-hour exam; small percentage for assignments, tests

This course extends the concepts and techniques of calculus and linear algebra which were introduced in Mathematics IMA/IMB, emphasising their inter-relationships and applications to the sciences and financial areas and continues to develop problem solving skills in mathematics. Calculus: Taylor Series, the mean value theorem, applications of the derivative. Algebra: The real vector space, linear transformations, orthogonal similarity and applications of linear algebra.

PURE MTH 2000

Discrete Mathematics II

- 2 units - semester 1
- 2 lectures per week, 1 tutorial per fortnight
- Available for Non-Award study
- Prerequisite: MATHS 1012 Mathematics IB (Pass Div I) or MATHS 1014 Mathematics IMB (Pass Div I) or MATHS 1008 Mathematics for Information Technology I (Pass div I) or corequisite MATHS 2004 Maths IIM
- Assessment: final exam, small percentage for class assignments

Permutations and combinations, recurrence relations, generating functions and the inclusion-exclusion principle. Additional topics of special relevance to Computer Science and other mathematical sciences courses, including geometry for Computer Graphics and Computer Vision.

PURE MTH 2001

Complex Analysis II

- 2 units - semester 2
- 2 lectures per week, 1 tutorial per fortnight
- Available for Non-Award study
- Prerequisite: MATHS 1012 Mathematics IB (Pass Div I) or MATHS 2004 Mathematics IIM (Pass Div I)
- Restriction: 2959 Complex Analysis II, PURE MTH 2006 Real and Complex Analysis II
- Assessment: final exam, small percentage for class assignments

Basic concepts, holomorphic functions, Cauchy-Riemann equations. Complex power series. Standard elementary functions. Conformal mapping including bilinear transformations and applications. Cauchy's integral theorem and consequences, including integral formula and power series representations. Residue theorem and applications. Further results on holomorphic functions.

PURE MTH 2002

Algebra II

- 2 units - semester 2
- 2 lectures per week, 1 tutorial per fortnight
- Available for Non-Award study
- Prerequisite: MATHS 1012 Mathematics IB (Pass Div I) or MATHS 2004 Mathematics IIM (Pass Div I)
- Assessment: final exam, small percentage for class assignments

Linear Algebra: Vector spaces over the real and complex numbers, linear transformations, bases, eigenspaces and diagonalisation, inner products, Cauchy-Schwarz inequality and Gram-Schmidt process, adjoint, bilinear forms, the matrix of a form, and the orthogonal and unitary groups. Group Theory: symmetries and permutations, abstract groups, permutations and matrix groups, cyclic groups and Lagrange's Theorem.

PURE MTH 2005

Multivariable Calculus II

- 2 units - semester 1
- 2 lectures per week, 1 tutorial per fortnight
- Available for Non-Award study
- Prerequisite: MATHS 1012 Mathematics IB (Pass Div I) or MATHS 2004 Mathematics IIM (Pass Div I) or corequisite MATHS 2004 Mathematics IIM
- Restriction: cannot be counted with 2959 Real and Complex Analysis passed before 1993, except under special arrangement with the Head of School - cannot be counted with 7389 Real Analysis II
- Assessment: final exam, small percentage for class assignments

Functions of several variables; limits, continuity and extrema; gradient, differentiability, Chain Rule; Taylor expansions, classification of critical points; implicit function theorem, Lagrange multipliers; differentiation of vector-valued functions, Jacobian matrices, inverse function theorem, curves and surfaces in space. Line integrals, differential 1-forms; double integrals, triple integrals; surface integrals; Green's theorem; the Divergence theorem; differential 2- forms and Stokes Theorem.

Level III

APP MTH 3000

Computational Mathematics III

- 3 units - semester 1
- 5 lectures and 1 tutorial every 2 weeks
- Available for Non-Award study
- Prerequisite: MATHS 1012 Mathematics IB (Pass Div I) or MATHS 2004 Mathematics IIM (Pass Div I)
- Assumed Knowledge: APP MTH 2007 Differential Equations II or APP MTH 2000 Differential Equations and Fourier Series and a computer programming language (Matlab, Fortran or C)
- Assessment: final exam 80%, written assignments 10%, computing assignments 10%

Mathematical models of the real world generally give rise to problems that cannot be solved exactly by hand, and an approximate numerical solution must be found instead. Computers are essential for solving important but otherwise intractable mathematical problems, from weather prediction to the earthquake response of buildings. The ability to solve problems numerically is an important tool in any mathematician's or engineer's toolkit. It is also important to be able to assess the likely accuracy (or otherwise) of the numerical solutions that you compute: computers readily generate garbage, yet humans have a tendency to believe computer-generated results, regardless. This course develops students; knowledge of appropriate numerical techniques for tackling mathematical problems and assessing the accuracy of the numerical results that are obtained. It provides methods appropriate to common mathematical models: algebraic equations, ordinary and partial differential equations and integrals. It discusses causes of numerical errors and ways to estimate the effects of those errors on the computed solution to a problem. It also gives practice in writing computer codes to implement effective numerical algorithms .

APP MTH 3001

Applied Probability III

- 3 units - semester 1
- 5 lectures and 1 tutorial every 2 weeks
- Available for Non-Award study
- Prerequisite: MATHS 1012 Mathematics IB (Pass Div I) or MATHS 2004 Mathematics IIM (Pass Div I)
- Assumed Knowledge: Some knowledge of Markov Chains as in second half of APP MTH 2008 Operations Research II - contact lecturer if you do not have this background
- Assessment: exam, assignments

The course aims to provide a basic toolkit for modelling and analysing real-world problems in which there is a significant probabilistic component. A methodology is developed and illustrated using a variety of problems from such areas as population modelling, genetics, simple games, diffusion of gases, reservoir operation, warehouse inventories and optimal decision-making in various commercial contexts.

APP MTH 3002
Fluid Mechanics III

- 3 units - semester 2
- 5 lectures and 1 tutorial every 2 weeks
- Prerequisite: MATHS 1012 Mathematics IB (Pass Div I) or MATHS 2004 Mathematics IIM (Pass Div I)
- Assumed Knowledge: APP MTH 2007 Differential Equations II or APP MTH 2000 Differential Equations and Fourier Series and APP MTH 2002 Vector Analysis and Complex Analysis or APP MTH 2006 Methods of Applied Mathematics II
- Assessment: exam, assignments

Fluid Mechanics is the study of fluids, whether they are gases (the air we breathe), water (as in the oceans) or more complex fluids (like the oil in our car engines). Fluid flows govern the way in which we interact with our environment. The energy we require for our survival is dependent upon the motion of fluids in the Sun. Technological society is founded upon the motion of fluids. Our entire physiology is based around the flow of fluids, from the air in our lungs through to blood flow in our arteries and veins. The weather we experience is a result of the complex motion of the oceans and the atmosphere. From the smallest scale of nanotechnology to the largest scale of astrophysical flow in stars, the motion of fluids is important.

This course will introduce students to the fascinating subject of modelling fluid flows. We derive the basic equations governing the motion of fluids and use these equations to explore a variety of practical fluid flows. The techniques that will be used in this course come from the study of differential equations (both ordinary and partial). It will provide students with an understanding of how, and why, fluids flow and how they impact upon our world.

APP MTH 3003
Life Contingencies III

- 3 units - not offered in 2005
- 5 lectures and 1 tutorial every 2 weeks
- Prerequisite: MATHS 1012 Mathematics IB (Pass Div I) or MATHS 1014 Mathematics IMB (Pass Div I); at least one of: STATS 1000 Statistical Practice I (Pass Div I), ECON 1008 Business Data Analysis I (Pass Div I), 9134 Mathematical Applications I (Pass Div I), MATHS 1008 Mathematics for Information Technology I (Pass Div I), STATS 2004 Laplace Transforms and Probability and Statistical Methods, APP MTH 2009 Numerical Analysis and Probability and Statistics, STATS 2001 Statistical Methods (Civil), APP MTH 2010 Differential Equations and Stat Methods (Civil)
- Assumed Knowledge: MATHS 3014 Mathematics of Finance III or CORPFIN 2006 Business Finance II or ECON 2008 Economics of Finance II
- Assessment: exam, assignments

Life tables and force of mortality; select, aggregate and ultimate mortality tables; annuities immediate and due, assurances and premiums. Relations between mortality functions; policy values, reserves and mortality profit. Multi-decrement tables and associated single-decrement, combined tables and monetary functions. Both practical and theoretical aspects of the above will be discussed.

APP MTH 3004
Mathematical Biology III

- 3 units - not offered in 2005
- 5 lectures, 1 tutorial every 2 weeks, 1 hour practical per week
- Available for Non-Award study
- Prerequisite: MATHS 1012 Mathematics IB (Pass Div I) or MATHS 2004 Mathematics IIM (Pass Div I)
- Assessment: final exam, assignments, project work may be included

APP MTH 3005
Mathematical Programming III

- 3 units - semester 2
- 5 lectures, 1 tutorial every 2 weeks; 1 hour practical per week
- Available for Non-Award study
- Prerequisite: MATHS 1012 Mathematics IB (Pass Div I) or MATHS 2004 Mathematics IIM (Pass Div I)
- Assumed Knowledge: some knowledge of duality theory as in first half of APP MTH 2008 Operations Research II - contact lecturer if you do not have this background
- Assessment: exam, assignments, project work may be included

Many interesting optimisation problems can be expressed as linear programs, in particular, problems related to network flows, scheduling, etc. The focus in this course will be in formulating models and developing solution methods for such optimisation problems. Topics will be chosen from:, network theory, advanced linear programming, integer programming, dynamic programming and applications.

APP MTH 3006
Industrial Mathematics III

- 3 units - semester 2
- 5 lectures and 1 tutorial every 2 weeks
- Available for Non-Award study
- Prerequisite: MATHS 1012 Mathematics IB (Pass Div I) or MATHS 2004 Mathematics IIM (Pass Div I)
- Assumed Knowledge: differential equations, such as, APP MTH 2007 Differential Equations II, APP MTH 2000 Differential Equations and Fourier Series or APP MTH 2010 Differential Equations and Stat Methods (Civil)
- Assessment: exam, assignments, some project work may be included

Mathematical modelling is the art of representing a real-world process (existing or proposed) by mathematical equations, and then investigating this "mathematical model" to obtain better insight into and understanding of the important features of the process. Mathematical modelling with differential equations has been recognised for some decades as a valuable tool in the development of modern industrial technologies and processes. In recent times it has been successfully used to understand problems arising in medicine and the biological sciences, and this is an exciting and growing area of mathematical application. Examples of industrial problems which might be modelled with differential equations include laser drilling, spontaneous ignition, contaminant dispersion, desalination, casting of sheet steel, solar heating, pasteurisation, heat exchanger design and geothermal heating; examples of medical/biological problems include drug delivery, blood oxygenation, dialysis, supply of oxygen and nutrients to tissue, and growth of tumours.

In the context of such energy and mass transport problems from industry and medicine, this course will give students an understanding of general modelling methodology. In addition to model development, a variety of mathematical methods for solving these models will be considered. The emphasis throughout is on using mathematics to obtain practical answers to realistic problems. Case studies from the above, or similar, examples will be used to demonstrate how to develop and use models. Students will also develop their own modelling skills through a project investigation of a real-world problem. The skills acquired will be applicable across a wide range of disciplines.

APP MTH 3009

Engineering Mathematics III

- 2 units - semester 1
- 36 hours lectures and tutorials/computing practicals
- Available for Non-Award study
- Eligibility: not available to students in B.Ma.& Comp.Sc. or B.Comp.Sc.
- Assumed Knowledge: APP MTH 2000 Differential Equations and Fourier Series; APP MTH 2002 Vector Analysis and Complex Analysis; 7567 Numerical Analysis and Probability and Statistics
- Assessment: exam, assignments

Mathematical formulation of some engineering problems and reductions to boundary value problems, linear and non-linear boundary value problems. Integral Transform Methods: Laplace transform, Fourier transforms and their application to boundary value problems. Finite Element Method: introduction, stiffness matrix, triangular and quadrilateral elements, choice of test functions, method of labelling nodes, method of solution of the matrix equation, illustrations. Signal Processing: energy spectrum, Rayleigh's theory, frequency domain description, signal averaging, time frequency solution. Conformal Mapping and applications.

APP MTH 3010

Variational Methods and Optimal Control III

- 3 units - not offered in 2005
- 5 lectures, 1 tutorial every 2 weeks
- Available for Non-Award study
- Prerequisite: MATHS 1012 Mathematics IB (Pass Div I) or MATHS 2004 Mathematics IIM (Pass Div I)
- Assumed Knowledge: APP MTH 2007 Differential Equations II or APP MTH 2000 Differential Equations and Fourier Series
- Assessment: exam, assignments

Many problems of optimisation and control in the sciences and engineering seek to find the shape of a curve or surface satisfying certain conditions so as to maximise or minimise some quantity. For example, shape a yacht hull so as to minimise fluid drag. Variational methods involve an extension of calculus techniques to handle such problems. This course develops an appropriate methodology, illustrated by a variety of physical and engineering problems.

APP MTH 3011

Financial Modelling Techniques III

- 4 units - semester 2
- 3 lectures per week, some tutorials
- Available for Non-Award study
- Prerequisite: MATHS 1012 Mathematics IB (Pass Div I) or MATHS 1000 B Mathematics IM Part B (Pass Div I)
- Assumed Knowledge: Excel spreadsheets; finance such as may be obtained from FINANCE 1000 International Financial Institutions and Markets I
- Restriction: cannot be counted together with APP MTH 3012 Financial Modelling III
- Assessment: exam, assignments

The course deals with discrete time financial modelling of various financial assets, interest rates, exchange rates. It will deal with the hedging and valuation of financial products (derivative products), the modelling of yield curves and interest rate management. The emphasis will be on practical modelling, real world applications, conforming with market models used in the financial industry at the current time. Binomial lattice type models, with implementation of spreadsheets, Ho and Lee type term structure models for interest rates and their application to interest rate risk management.

APP MTH 3012

Financial Modelling III

- 3 units - semester 2
- 5 lectures and 1 tutorial every 2 weeks
- Available for Non-Award study
- Prerequisite: MATHS 1012 Mathematics IB (Pass Div I) or MATHS 2004 Mathematics IIM (Pass Div I)

- Assumed Knowledge: Excel spreadsheets
- Restriction: cannot be counted with APP MTH 3011 Financial Modelling Techniques III
- Assessment: exam, assignments

Discrete time financial modelling of various financial assets, interest rates and exchange rates. Valuation of financial products (derivative products) using binomial lattice models with implementation on spreadsheets. Hedging and Interest Rate Management, including the Ho and Lee Term Structure Model for interest rates and related models, together with their application to interest rate risk management with implementation on spreadsheets.

APP MTH 3013
Differential Equations III

- 3 units - semester 1
- 5 lectures, 1 tutorial every 2 weeks
- Available for Non-Award study
- Prerequisite: MATHS 1012 Mathematics IB (Pass Div I) or MATHS 2004 Mathematics IIM (Pass Div I)
- Assumed Knowledge: APP MTH 2007 Differential Equations II or APP MTH 2000 Differential Equations and Fourier Series or APP MTH 2010 Differential Equations and Statistical Methods (Civil)
- Assessment: exam, assignments

Differential equations describe a wide range of practical problems in such areas as biology, physics, engineering, economics and finance. This course will provide students with the techniques required to solve the classes of ordinary and partial differential equations which commonly occur in applications.

The course will include discussion of (i) methods for the solution of initial value problems for systems of first order linear and non-linear ordinary differential equations; (ii) techniques for the solution of two point boundary value problems for second order linear ordinary differential equations with variable coefficients; (iii) classification of partial differential equations and the solution of boundary value problems for these equations using the methods of (a) reduction to ordinary differential equations by use of separation of variables, (b) integral transforms, (c) characteristics.

APP MTH 3014
Optimisation III

- 3 units - semester 1
- 5 lectures, 1 tutorial every 2 weeks; 1 hour practical per week
- Available for Non-Award study
- Assessment: exam, assignments, project work may be included

Modern optimisation methods in areas such as Communication Network Design, Finance, etc, rely on the classical underpinnings covered in this course. One-dimensional (line) searches; multivariable unconstrained optimisation, in particular, for convex functions; a random search technique, such as Simulated Annealling or Genetic algorithms; constrained optimisation, including Kuhn-Tucker conditions and the Gradient Projection Method. Other topics such as penalty methods, quasi-convexity, etc, will be covered as time permits.

APP MTH 3016
Telecommunications Systems Modelling III

- 3 units - semester 2
- 3 contact hours per week
- Available for Non-Award study
- Prerequisite: MATHS 1012 Mathematics IB (Pass Div I) or MATHS 2004 Mathematics IIM (Pass Div I)
- Assumed Knowledge: APP MTH 2008 Operations Research II, familiarity with STATS 2002 Introduction to Mathematical Statistics or STATS 2004 Laplace Transforms and Probability and Statistics, will be advantageous.
- Restriction: may not be presented with APP MTH 3015 Stochastic Modelling for Telecommunications III
- Assessment: exam, assignments and mini-projects

Definition of continuous-time Markov-chains, classical queueing examples, transient behaviour, the stationary distribution, hitting probabilities and expected hitting times. Stochastic Modelling of traffic streams. Effective bandwidth and quality of service. Evaluation of exact and approximate performance measures for both queueing networks and loss networks. TCP/IP protocols and performance measures. Applications of the above concepts to complex models of telecommunication systems.

MATHS 3014
Mathematics of Finance III

- 2 units - semester 1
- 2 lectures a week, 1 hour tutorial every 3 weeks
- Available for Non-Award study
- Prerequisite: MATHS 1012 Mathematics IB (Pass Div I) or MATHS 2004 Mathematics IIM (Pass Div I)
- Assessment: 2 hour exam, small percentage for assignments

Theory of interest rates. Annuities. Cash flows. Valuation of securities. Loan repayments, Bonds: Prices and Yields, Stochastic interest rate models.

MATHS 3015

Communication Skills III

- 2 units - semester 1
- 2 hours per week
- Available for Non-Award study
- Prerequisite: MATHS 1012 Mathematics IB (Pass Div I) or MATHS 2004 Mathematics IIM (Pass Div I) or COMP SCI 1009 Computer Science IB (Pass Div I)
- Restriction: cannot be counted with CHEM ENG 3004 Engineering Communication (ESL) (H), C&ENVENG 3000 Engineering Communication ESL (C), ELEC ENG 3012 Engineering Communication ESL (E), MECH ENG 3006 Engineering Communication ESL (M), 9007 Communication Skills (ESL) III
- Assessment: written and oral assignments, participation in workshops, exam

This course will develop students' skills in technical communication. Some of the issues covered in lectures and workshops are: the writing process, abstracts and summaries, communicating with non-technical audiences, writing professional documents, preparation and delivery of seminars.

PURE MTH 3002

Topology and Analysis III

- 3 units - semester 2
- 5 lectures, 1 tutorial per fortnight
- Available for Non-Award study
- Prerequisite: MATHS 1012 Mathematics IB (Pass Div I) or MATHS 2004 Mathematics IIM (Pass Div I)
- Restriction: cannot be counted with 6848 Analysis & Topology III
- Assessment: 3 hour exam, small percentages may be allocated to class exercises and/or tutorials

Sets, functions, metric spaces, compactness and completeness. Banach fixed point theorem and applications, uniform continuity. General topological spaces. Introductory functional analysis: normed linear spaces, topological duals. Convexity and Hahn-Banach theorems. Hilbert spaces, operators on Hilbert spaces, the Spectral theorem.

PURE MTH 3003

Number Theory III

- 2 units - semester 1
- 2 lectures a week, tutorial every 3 weeks
- Available for Non-Award study
- Prerequisite: MATHS 1012 Mathematics IB (Pass Div I) or MATHS 2004 Mathematics IIM (Pass Div I)
- Assessment: 2 hour exam, small percentage may be allocated for class exercises and/or tutorials

An introduction to classical elementary number theory, with modern applications to computer science, cryptography etc. Divisibility and primes, congruences, arithmetic functions. Primitive roots, quadratic residues. Continued fractions and rational approximation.

PURE MTH 3005

Fractal Geometry III

- 2 units - semester 2
- 2 lectures a week, tutorial every 3 weeks - some may be computing tutorials using packages
- Available for Non-Award study
- Prerequisite: MATHS 1012 Mathematics IB (Pass Div I) or MATHS 2004 Mathematics IIM (Pass Div I)
- Assessment: 2 hour exam, small percentage for class exercises

A survey of fractal geometry including classical fractals, fractal dimension, encoding imagery modelling nature, chaos. Feigenbaum diagram, Mandelbrot and Julia sets. Students have opportunity to construct their own fractals.

PURE MTH 3006

Coding and Cryptology III

- 2 units - semester 2
- 24 lectures and 4 tutorials
- Available for Non-Award study
- Prerequisite: MATHS 1012 Mathematics IB (Pass Div I) or MATHS 2004 Mathematics IIM (Pass Div I)
- Assumed Knowledge: students who have not completed either PURE MTH 2000 Discrete Mathematics II or PURE MTH 2002 Algebra II should see the Level III Pure Mathematics coordinator
- Restriction: PURE MTH 3018 Coding and Cryptology III (Extended)
- Assessment: 2 hour exam, small percentage for class exercises and/or tutorials

The first part of the course is an introduction to contemporary cryptology, including both symmetric and public key systems. Examples of cryptosystems studied include the RSA algorithm. The second part of the course concentrates on linear codes, with topics including syndrome decoding, perfect codes and cyclic codes. The Hamming and Golay codes and others, are discussed. Other topics covered may include authentication, identification and digital signatures.

PURE MTH 3007

Groups and Rings III

- 3 units - semester 1
- 5 lectures, 1 tutorial per fortnight
- Available for Non-Award study
- Prerequisites MATHS 1012 Mathematics IB (Pass Div I) or MATHS 2004 Mathematics IIM (Pass Div I)
- Assumed Knowledge: PURE MTH 2002 Algebra II
- Restriction: cannot be counted with either 1273 Groups III or 6508 Rings, Fields and Matrices III
- Assessment: 3 hour exam, small percentages may be allocated to class exercises and/or tutorials

Groups, subgroups, factor groups, homomorphism and isomorphism theorems. Finitely generated abelian groups. Conjugacy. Cayley's and Sylow's theorems. Rings, ideals, factor rings and homomorphisms. Polynomials. Unique factorisation. Euclidean domains, Gaussian integers.

PURE MTH 3009

Integration and Analysis III

- 3 units - not offered in 2005
- 5 lecture, 1 tutorial per fortnight
- Available for Non-Award study
- Prerequisite: MATHS 1012 Mathematics IB (Pass Div I) or MATHS 2004 Mathematics IIM (Pass Div I)
- Assumed Knowledge: PURE MTH 2006 Real and Complex Analysis II or 7389 Real Analysis II (pre 2001)
- Restriction: cannot be counted with either 1845 Integration III or 4102 Geometry of Surfaces III
- Assessment: 3 hour exam, small percentages may be allocated to class exercises and/or tutorials

Set theory, outer measure, measurable sets. Measurable functions, the Lebesgue integral; Fatou's Lemma, Dominated and Monotone Convergence theorems. General measure spaces and integration, Fubini's theorem. Applications to Probability Theory and Financial Mathematics or Differential Geometry.

PURE MTH 3010

Logic III

- 2 units - not offered in 2005
- 2 lectures a week; tutorial every 3 weeks
- Available for Non-Award study
- Prerequisite: MATHS 1012 Mathematics IB (Pass Div I) or MATHS 2004 Mathematics IIM (Pass Div I)
- Assessment: 2 hour exam, small percentage may be allocated for class exercises and/or tutorials

Propositional calculus, first order theories, interpretations and models. Godel's completeness theorem for predicate calculus. Computability: Turing machines, recursive functions and the halting problem. Undecidability of predicate calculus. Godel's theorem for elementary number theory.

PURE MTH 3012

Fields and Geometry III

- 3 units - semester 2
- 5 lectures, 1 tutorial per fortnight
- Available for Non-Award study
- Prerequisite: MATHS 1012Mathematics IB (Pass Div I) or MATHS 2004 Mathematics IIM (Pass Div I)
- Assumed Knowledge: PURE MTH 2002 Algebra II
- Restriction: cannot be counted with 3786 Projective Geometry III
- Assessment: 3 hour exam, small percentages may be allocated to class exercises and/or tutorials

Fields and extensions, algebraic and simple extensions. Finite fields. Affine and projective geometries. Desargues (2 and 3-d) and Pappus theorems. Duality. Coordinatising a plane. The Little Desargues Axiom. Translation planes. Homogeneous coordinates. Field planes. Automorphism group and the Fundamental Theorem. Conics, arcs, ovals and hyperovals. Quadrics.

PURE MTH 3017

Real Analysis III

- 3 units - semester 1
- 5 lectures, 1 tutorial per fortnight
- Available for Non-Award study
- Prerequisite: MATHS 1012 Mathematics IB (Pass Div I) or MATHS 2004 Mathematics IIM (Pass Div I)
- Restriction: 7389 Real Analysis II (before 2002)
- Assessment: 3 hour exam, small percentages may be allocated to class exercises and/or tutorials

The real numbers, infimum and supremum. Real sequences: limit properties, subsequences, conditions for convergence, applications. Real series: tests for convergence and power series. Functions: limits, continuity, uniform continuity. Existence of the Riemann integral. Approximation theory.

PURE MTH 3018

Coding and Cryptology III (Extended)

- 3 units - semester 2
- 5 lectures, 1 tutorial per fortnight
- Available for Non-Award study
- Prerequisite: MATHS 1012 Mathematics IB (Pass Div I) or MATHS 2004 Mathematics IIM (Pass Div I)

- Assumed Knowledge: Students who have not completed either PURE MTH 2000 Discrete Mathematics II or PURE MTH 2002 Algebra II should see Level III Pure Mathematics coordinator
- Restriction: cannot be counted with PURE MTH 3006 Coding and Cryptology III
- Assessment: 3 hour exam, small percentage for class exercises and/or tutorials

An introduction to contemporary cryptology, including both symmetric and public key systems. Examples of cryptosystems studied include the RSA algorithm. Further topics, which may include block ciphers and the AES algorithm.

Linear codes, with topics including syndrome decoding and perfect codes. The Hamming and Golay codes and others are discussed. Further topics, which may include cyclic codes and BCH codes.

Level IV

APP MTH 4003
Aerodynamics

- 2 units - semester 2
- 24 hours lectures & tutorials
- Assumed Knowledge: fluid mechanics such as in APP MTH 3002 Hydrodynamics III or Fluid Mechanics III; vector analysis and complex variables, such as in APP MTH 2002 Vector Analysis and Complex Analysis or APP MTH 2006 Methods in Applied Mathematics II, and a computer programming language (Matlab, Fortran or C).
- Assessment: final exam 80%, written assignments 10%, computing assignment 10%

Humans have been interested in flight for thousands of years, yet it is only within the last 100 years or so that we have been able to accomplish flight with heavier-than-air machines. This course describes classical and modern aspects of aerodynamic theory, focusing on low-speed, incompressible flow. It will present analytical and numerical techniques for solving mathematical problems in aerodynamics, with an emphasis on the concepts of lift and drag.

APP MTH 4004
System Modelling and Simulation

- 2 units - semester 1
- 24 hours lectures, tutorials & variable practical work
- Assumed Knowledge: Level II Applied Mathematics courses with an aggregate value of 6 units
- Assessment: exam, assignments and project.

The course will provide students with the skills to analyse and design systems using modelling and simulation techniques. It will involve an introduction to modelling and simulation techniques. The theory and application of simulation modelling will be discussed. Case studies will be undertaken involving hands-on use of simulation packages. The application of simulation in areas such as manufacturing, telecommunications and transport will be investigated.

APP MTH 4007
Computational Fluid Dynamics (Engineering)

- 2 units - semester 1
- 24 hours lectures and tutorials
- Assumed Knowledge: Numerical Analysis or Numerical Methods and Hydrodynamics or Fluid Mechanics
- Assessment: exam, computer and written assignments

Review of classical hydrodynamics, the Navier Stokes equations for fluid flow, methods of computational grid generation, solution of systems of equations, modelling of turbulence and the finite volume, finite difference and finite element forms of solutions.

APP MTH 4012
Communication Network Design

- 2 units - semester 1
- 24 hours lectures and tutorials
- Assumed Knowledge: basic concepts of nonlinear and discrete optimisation , such as in APP MTH 2008 Operations Research II, APP MTH 3014 Optimisation III and APP MTH 3005 Mathematical Programming III.
- Assessment: exam, assignments

This is a very large field and the course will look at some subtopics in depth, rather than trying to cover the whole area. Nevertheless the range of topics is broad enough to give a flavour of the area. The approach is deterministic; probabilistic effects are hidden in the objective function or constraints. The principal decision to be made in network design is the routing of the offered traffic through the network; once this decision has been made, the design of the network is largely determined.

APP MTH 4014
Modelling Telecommunication Traffic

- 2 units - semester 2
- 24 hours lectures
- Assessment: assignments, exam

The aim of this course is to introduce students to fundamental methods of the modelling of telecommunication systems. Objectives: on completion of this course, students should be able to understand how to model traffic streams using stochastic models: and be familiar with basic methods used to analyse traffic congestion and loss in telecommunication networks. Traffic streams. Loss and delay systems. Communications networks. Loss networks. Modelling internet traffic.

APP MTH 4043
Transform Methods and Signal Processing

- 2 units - semester 2
- 24 hours lectures, tutorials and variable practical work
- Assumed Knowledge: Level II Applied Mathematics courses with an aggregate value of 6 units
- Assessment: exam, assignments

Introduces various transform techniques including DFT and FFT as well as wavelet transforms, and introduces the basic principles of signal processing to provide an understanding of the fundamentals, implementation and applications of signal processing. At the end of the course students should have good concepts of various transform techniques used in communication theory and information theory, discrete-time signals in both time and frequency domains and use of wavelet transforms for signal analysis.

APP MTH 4044
Game Theory

- 2 units - semester 1
- 24 hours lectures plus tutorials
- Assessment: exam, written assignments 2

Games in extensive and normal forms. Zero-sum games. Finite games; minimax strategies, saddle points, mixed strategies and the minimax theorem. Dominance, simple solutions, complete solution of the finite game, linear programming formulation. Infinite games, extended mixed strategies, epsilon-good strategies, games of timing. Many person games. Negotiation problems. Non zero-sum games in cooperative and non-cooperative version, solution concepts.

MATHS 4003
Industry Practicum (Maths. & Comp. Sc.)

- 2 units - semester 2
- Eligibility: available only to students who are undertaking a CEED Project in Honours year

This course provides students with the research tools required to undertake an industrial related project. Topics include research design and documentation, project planning and time management, costing and budgeting, quality assurance. An industry linked project will be commenced.

Honours

APP MTH 4011
Honours Applied Mathematics & Computer Science

- 24 units - full year
- Prerequisite: see APP MTH 4015A/B Honours Applied Mathematics and COMP SCI 4999A/B Honours Computer Science
- Assessment: 3 hour exams, assignments up to 20%, project 30%

Candidates are required to undertake at least 3 Honours level Computer Science options and at least 3 Honours level Applied Mathematics options. Other lecture topics may be included at the discretion of the Heads of both Disciplines. They must also complete a project supervised within the Applied Mathematics discipline in a topic with a significant computing component.

APP MTH 4015
Honours Applied Mathematics (B.A. or B.Sc.)

- 24 units full year
- Students should consult the Head of Applied Mathematics preferably before enrolling for Level III - students are required to obtain approval of Head of Applied Maths before enrolling
- Prerequisite: Level III Applied Mathematics courses (at least 8 units value) at a good pass standard or better - different backgrounds may be accepted at the discretion of Head of Discipline
- Assessment: exams for each course at the end of the semester in which the course is offered, project, seminar

Students select from lecture topics offered by Applied Mathematics, Pure Mathematics, Statistics, Computer Science, Physics and Mathematical Physics at the University of Adelaide and other disciplines as may be agreed to by the Head of Applied Mathematics. Students may be allowed to take appropriate Level III Applied Mathematics courses not already taken.

Candidates may apply to the Head for permission, under certain circumstances, to take Honours over two years.

Students are assigned a supervisor to advise on and approve their lecture program and give guidance in writing a project on some Applied Mathematics topic. Possible topics should be discussed with staff during the preceding year. Project work is done from early February to the end of second semester lectures.

APP MTH 4016
Honours Applied Mathematics & Genetics

- 24 units - full year
- Prerequisite: Level III Applied Mathematics courses at Credit standard, or better, with an aggregate units value of at least 6, Level III Genetics courses with an aggregate units value of 6 units
- Assessment: thesis, essays, exams

APP MTH 4017

Honours Applied Mathematics & Statistics

- 24 units - full year
- Prospective students should consult the Heads of Applied Mathematics and Statistics early in the year to obtain advice as to specific course content
- Assessment: exams for each course at end of semester in which it is offered, project, seminar

Candidates should consult potential supervisors and the Heads of Applied Mathematics and Statistics during the final year of the degree program. The honours program commences at the beginning of February.

Candidates are required to present a project that will constitute about 30% of the final result. The project will involve interdisciplinary work at the interface of Statistics and Applied Mathematics. The student's project will be jointly supervised by staff of both the Statistics and the Applied Mathematics disciplines. The remainder of the program will consist of (at least) seven or eight Honours mathematics and statistics courses.

APP MTH 4018

Honours Applied Mathematics & Environmental Biology

Please contact Applied Mathematics for further information

MATHS 4000

Honours Mathematical Sciences

- 24 units full year
- Students considering taking this course are advised to see the Heads of Applied Mathematics and Pure Mathematics Disciplines as soon as possible, preferably no later than the end of the year preceding their enrolment - students are required to obtain approval of the School of Mathematics before enrolling
- Prerequisite: At least 10 units from Level III Applied Mathematics, Pure Mathematics and Statistics courses at credit standard or better. This course is suitable for students who do not have a major in any of the disciplines. Students with a different background at Level III may be accepted at the discretion of the Head of School
- Assessment: end of semester 3 hour exam for each topic (unless other arrangements notified, seminar on mathematical topic & project also contribute to final result)

The lecture program is determined from year to year. Students are required to make a selection from topics offered by the Disciplines of Applied Mathematics, Pure Mathematics, Computer Science, Physics and Mathematical Physics at the Adelaide, the University of South Australia and such other disciplines as may be agreed to by the School of Mathematics. It is possible for students to take some appropriate Level III Applied Mathematics, Pure Mathematics and Statistics courses not already taken.

A candidate may apply to the Heads of Schools for permission, under certain circumstances, to spread the work for the Honours degree over two years.

Each student will be assigned a supervisor who will advise on and approve the choice of lecture program and give guidance in the writing of a project on some topic in Mathematics. Possible topics should be discussed with the staff before the end of the preceding year. Work on the chosen project should begin in the School in the first week of February and should be completed by the end of the second semester's lecture program.

PURE MTH 4001

Honours Pure Mathematics & Statistics

- 24 units - full year
- Prerequisite: credit standard, or better, in at least 8 units of Pure Mathematics III units and 8 units of Statistics III units
- Assessment: project 30%, exam 70%

Candidates should consult potential supervisors and Heads of both Disciplines during the final year of the degree program. The honours program commences at the beginning of February.

Candidates are required to present a project that will constitute about 20% of the final Prerequisite. The project will involve interdisciplinary work at the interface of Statistics and Pure Mathematics. The student's project will be jointly supervised by staff of both Statistics and Pure Mathematics disciplines. The remainder of the program will consist of (at least) eight Honours mathematics and statistics programs.

PURE MTH 4002

Honours Math Physics & Pure Maths

Please contact the School for further information

PURE MTH 4003

Honours Pure and Applied Maths (B.A. Or B.Sc.)

- 24 units - full year

Students considering taking this course are advised to see the Head of School as soon as possible, preferably no later than the end of the year preceding enrolment.

PURE MTH 4004

Honours Computer Science and Pure Mathematics

- 24 units - full year
- Prerequisite: see COMP SCI 4999 Honours Computer Science and PURE MTH 4005ß Honours Pure Mathematics

Candidates are required to undertake at least 3 Honours level Computer Science options and at least 3 Honours level Pure Mathematics options. Other lecture topics may be included at the discretion of the Heads of both Disciplines. A project will involve

interdisciplinary work at the interface of Computer Science or Pure Mathematics and may be taken in either discipline. The size of the project is determined by the school in which it is undertaken. See COMP SCI 4999 Honours Computer Science and PURE MTH 4005 Honours Pure Mathematics for further information.

PURE MTH 4005

Honours Pure Mathematics (B.A. Or B.Sc.)

- 24 units - full year
- Students are required to obtain the approval of the Head of School before enrolling in this course
- Prerequisite: (a) at least 10 units of Level III Pure Mathematics courses, (b) at least one of PURE MTH 3007 Groups and Rings III and PURE MTH 3012 Fields and Geometry III, (c) at least one of PURE MTH 3002 Topology and Analysis III and PURE MTH 3009 Integration and Analysis III, (d) Level III Mathematical Sciences courses to the value of at least 8 units by other disciplines - students with a different Level III background may be accepted at the discretion of the Discipline Head
- Assessment: 3 hour semester exams (unless other arrangements are notified), project also contributes to the final result

Students are required to make a selection from options offered by Pure Mathematics, Applied Mathematics, Computer Science, and Physics and Mathematical Physics. Options may include Level III courses under suitable conditions. Candidates may apply to the Discipline Head for permission, under certain circumstances, to take Honours over two years.

Students are assigned supervisors to advise on and approve their lecture program and give guidance in writing a project on some topic in mathematics.

PURE MTH 4998

Honours Philosophy and Pure Mathematics

Please contact the School for further information.

Media

Level I

MDIA 1002

Media Engagements

- 3 units - semester 1
- 2 hour lecture, 1 hour seminar per week
- Eligibility: B.Media students only
- Assessment: tutorial presentation 20%, 2 reading logs 30%, attendance & participation 20%, final essay 30%

This course takes a synoptic look at the workings of the various media and how we engage with them in the shaping of our daily activities. It takes a socio-historical perspective in analysing the development of each branch of the media and in critiquing their ideological impact in society. There is an attempt at understanding how we interact with each other through how we interact with the media. Students are exposed to debates on ideological formation and how our engagement with the media shapes our social, cultural, economic, political and rational beliefs. Some of the topics covered include the press, film and television, radio, telecommunication, magazines, advertising, public relations, music and audiences.

Level II

MDIA 2202

Media Policy and Media Law

- 4 units - semester 1
- 3 hour seminar per week
- Eligibility: B.Media students only
- Prerequisite: MDIA 1002 Media Engagements and at least one other compulsory Level I course for B.Media.
- Assessment: tutorial presentation 20%, short essay 30%, attendance & participation 10%, project 40%

This course examines the various media law, policy and regulatory frameworks in Australia that affect media establishments and how they enhance or constrain media institutions and the public in their communication activities. It will also examine the media regulatory frameworks of other countries. The course will examine the success or failure of existing media policy and regulations in a technologically dynamic media environment.

MDIA 2203

Radio Production A

- 4 units - semester 2
- 3 hours per week
- Eligibility: B.Media students only
- Quota will apply
- Prerequisite: MDIA 1002 Media Engagements, ENGL 1105 Media Studies and SOCI 1002 Image, Text and Representation
- Assessment: program planning exercise 5%, broadcast writing & production exercise 5%, production exercise 10%, program design exercise 10%, in-class exercise & participation 20%, production & presentation exercise 50%

Radio Production A is a hands-on course designed to introduce students to the theoretical and practical fundamentals of radio broadcasting across public, community and commercial sectors. Students will learn the basic elements of producing and presenting a radio program including writing in broadcast style, live to air technical production, presentation, interviewing, program planning and research, audience awareness and digital audio production and

editing. This course will be taught at Radio Adelaide and is a prerequisite for Radio Production B.

MDIA 2204
Media Research Methods

- 4 units - semester 2
- 3 contact hours per week
- Eligibility: B.Media students only
- Prerequisite: MDIA 1002 Media Engagements, at least one other compulsory Level I Media course
- Assessment: attendance & research exercises 30%, individual research proposal 30%, seminar & paper submission 40%

Research is central to all media analysis and projects. This course aims to bring together the theoretical and practical elements of research in the media. Students will be exposed to various research methodologies as they affect the changing media landscape. The course will cover both qualitative and quantitative methodologies of investigating visual as well as textual material including the Internet. Students will be exposed to debates on issues such as academic honesty, research ethics, intellectual property and cultural sensitivity, among others. The course will also explore research design techniques and look at various styles of referencing, interview techniques, project proposals and presentation.

MDIA 2205
Multimedia Production A

- 4 units - semester 2
- 3 hours per week
- Eligibility: B.Media students only
- Quota will apply
- Prerequisite: MDIA 1002 Media Engagements, ENGL 1105 Media Studies and SOCI 1002 Image, Text and Representation
- Assessment: attendance & professional conduct 10%, 3 small projects 10% each, group project 60% (group mark 30%, individual contribution evaluation 30%)

Multimedia Production A is aimed at providing students with skills in the various aspects of multimedia design and application, ranging from creative application of visual composition, manipulation, colour scheme, design tools and their application, to computer graphics, with special focus on interactive digital media, web design, audiovisual postproduction such as CD, DVD and animation. Emphasis is placed on stimulating creativity in students rather than on total reliance on technology. The final project could be, but need not be limited to any of the following: web design, animation, soundscaping and/or special effects, webcasting, audio and/or video streaming or design portfolio.

MDIA 2206
Video Production A

- 4 units - semester 2
- 3 hours per week
- Eligibility: B.Media students only
- Quota will apply
- Prerequisite: MDIA 1002 Media Engagements, ENGL 1105 Media Studies and SOCI 1002 Image, Text and Representation
- Assessment: attendance & professional conduct 10%, scenewriting, treatment or directing exercise 10%, shooting/sound recording exercise 10%, editing or sound design exercise 10%, group project 60% (group mark 30%, individual contribution evaluation 30%)

This course will introduce students to the basic skills and knowledge required in video production. The course will be predominantly hands-on, with students working in small groups in multiple roles on a variety of exercises with digital video cameras, sound recording equipment, off-line non-linear editing facilities and other equipment. The course will cover such topics as camera operation and technique, shooting set-up procedures, sound recording, pre-production and script development, editing principles and off-line non-linear editing techniques. The course will also examine theories of screen production, genre, style, directing and narration with a focus on short works designed for television and video production.

Level III

MDIA 3206
Video Production B

- 6 units - semester 1
- 3 hours per week
- Eligibility: B.Media students only
- Prerequisite: Video Production A
- Assessment: attendance & professional conduct 20%, critical incident analyses exercise, group project 60% (group mark 30% individual contribution evaluation 30%)

This course aims to build upon the skills and knowledge acquired in Video Production A. The course will examine in more detail elements of pre-production (pitch, treatment and script development), production and post-production (editing techniques, rough cut to final cut, titles, transitions, sound design). Students working in small groups will collaborate in the development and execution of a short video project. The projects will conform to a brief and will pass through the major stages of the production process in a workshop format so that creative development, project challenges, problem-solving and critical reflection will be utilised as the key learning processes in the course.

MDIA 3301
Professional Practice

- 6 units - semester 2
- 3 hours per week
- Eligibility: B.Media students only
- Prerequisite: 2 Level II Media core courses
- Restriction: Media Project
- Assessment: attendance & participation 20%, project plan & research 20%, final group project 60% (group mark 30% individual contribution mark 30%) or individual project 60%

This course is divided into two parts: the first part consists of guest lectures/workshops by industry professionals from across different media specialisations. These sessions are aimed at preparing students for real world media project experiences. They will expose students to the various techniques and strategies adopted by these experts in their fields. Each session will be followed by a project preparation seminar where the topic discussed by the guest lecturer is used as a springboard in designing relevant project topics. Students' experience from Media Project management and Media Research Methods are used here. The second part of the course is a supervised execution of the chosen project stream of students or group of students. These are internally supervised with possible input and guidance from industry professionals.

MDIA 3302
Media Industry Placement

- 6 units - semester 1& 2
- Eligibility: B.Media students only
- Prerequisite: 2 Level II Media core courses
- Restriction: Media Internship
- Assessment: organisation's performance evaluation of student 40%, departmental evaluation 60% (progress report 20%, portfolio 40%)

This course is open to every Bachelor of Media student as an elective. It is aimed at recognising the importance of collaborative ventures between the university and various media organisations in the community. Students should negotiate their own placements with organisations of their choice, with the approval of the head of discipline. Students are encouraged to take up project placements with community organisations based on joint supervision between the host organisation and Media discipline staff. The placement enables students to gain work experience within such organisations as well as requiring them to make contributions towards the growth of the organisation or community project. Projects are negotiated between the Media discipline supervising staff and the organisation's contact person. It is the responsibility of the student to ensure that the Media Industry Placement does not clash with their other courses. Students may elect to do the program during vacation time as long as there is staff to supervise them and it is agreed to between the organisation and the University.

MDIA 3303
Media Theory

- 6 units - semester 1
- 2 hour lecture, 1 hour seminar
- Eligibility: B.Media students only
- Prerequisite: two Level II B.Media core courses
- Assessment: participation 20%, seminar exercise 10%, seminar paper 30%, final essay/group project 40%

This course will examine the different traditions within media theory. It will map the major theoretical traditions of the field such as structuralism, postmodernism, psychoanalysis, post-colonialism, political economy, communication theory, pluralism and liberalism. It will also investigate the social and cultural processes implicated in the production and consumption of media forms. Issues will range from media as creative and cultural industry, the political economy of the media, techno-transformation/post-modernity, consumers, audiences and the public, to media products as agents of globalisation.

MDIA 3304
Radio Production B

- 6 units - semester 1
- 3 hours per week
- Eligibility: B.Media students only
- Prerequisite: Radio Production A
- Assessment: continuous assessment work performance 40%, workshop participation 10%, self-assessment exercise 10%, portfolio of work 40%

Radio Production B is a hands-on course, offering students supervised production and on air experience at Radio Adelaide. The course aims to build upon the skills and knowledge acquired in Radio Production A. Students will have the opportunity to develop and broadcast their own on-air projects or contribute to existing radio programs. In addition, a series of advanced workshops will be offered on interviewing skills, production and editing of current affairs and feature packages, and writing for different formats.

Honours

MDIA 4401
Honours Media

- 24 units - full year
- Prerequisite: completion of B Media at appropriate standard
- Assessment: coursework 50% (academic & creative streams), dissertation 50% (academic stream only), project & exegesis 50% (creative stream only)

The aim of Honours Media is to provide students with a stronger and more focused intellectual context in which to carry out

research in their areas of specialisation in the media. It is designed to extend the academic and creative synergies of the B.Media into higher degree and professional industry application. It is expected that by the end of the program students will be able to carry out independent research in either a higher degree or an industry related specialisation. It is also expected that students will have developed the awareness and critical skills necessary for a proper understanding of the ethical implications of professional and scholarly conduct. Honours Media enables students to develop skills in their chosen areas of specialisation within the B.Media through one of two streams - academic and creative. The academic stream is for students who wish to pursue the traditional critical and analytic research higher degree structure. The creative stream is for those wishing to combine practical with analytical inquiry in any of the production specialisations studied in the B.Media.

Medicine

Level I

MEDIC ST 1000A

First year MBBS Examination

MEDIC ST 1101A

Scientific Basis of Medicine I Part 1

- 3 units - semester 1

MEDIC ST 1101B

Scientific Basis of Medicine I Part 2

- 3 units - semester 2
- Weekly lectures, PBL sessions and resource sessions
- Eligibility: MBBS students only
- Assessment: details provided at start of year

Through the study of clinical cases students will develop a knowledge and understanding of the basic scientific principles that underpin the practice of medicine. The Problem Based Learning Program emphasises the need for students to be able to explain the mechanisms responsible for the production of symptoms and signs of diseases and to be able to relate these to pathophysiology and related underlying scientific disciplines. Student learning in this program is supported by relevant resource sessions and a limited number of lectures.

MEDIC ST 1102A

Clinical Skills I Part 1

- 3 units - semester 1

MEDIC ST 1102B

Clinical Skills I Part 2

- 3 units - semester 2
- Weekly lectures, PBL sessions and resource sessions
- Eligibility: MBBS students only
- Assessment: details provided at start of year

Students are introduced to the skills of medical practice. Emphasis is placed on developing the clinical interviewing skills required to elicit and record a clinical history and to perform a physical examination. Clinical skills will be gained within the Medical School's Clinical Skills Laboratory.

MEDIC ST 1103A

Medical Professional & Personal Development I Part 1

- 3 units - semester 1

MEDIC ST 1103B

Medical Professional & Personal Development I Part 2

- 3 units - semester 2
- Weekly lectures, PBL sessions and resource sessions
- Eligibility: MBBS students only
- Assessment: details provided at start of year

Through this stream students will develop competency in communication with patients, relatives, allied health professionals, media and people in general. Alongside this students are assisted to develop strategies and skills for self care and for addressing attitudinal, ethical and professional aspects of life as a medical practitioner. Supporting skills in information technology, decision making, information management, organisational factors, workflow, patient safety, evidence based medicine, epidemiology are developed.

Level II

MEDIC ST 2000A

Second Year MBBS Examination

MEDIC ST 2101A

Scientific Basis of Medicine II Part 1

- 3 units - semester 1

MEDIC ST 2101B

Scientific Basis of Medicine II Part 2

- 3 units - semester 2
- Weekly lectures, PBL sessions and resource sessions

- Eligibility: MBBS students only
- Prerequisite: Year 1 MBBS Exam
- Assessment: details provided at start of year

Through the study of clinical cases students will develop a knowledge and understanding of the basic scientific principles that underpin the practice of medicine. The Problem Based Learning Program emphasises the need for students to be able to explain the mechanisms responsible for the production of symptoms and signs of diseases and to be able to relate these to pathophysiology and related underlying scientific disciplines. Student learning in this program is supported by relevant resource sessions and a limited number of lectures.

MEDIC ST 2102AHO
Clinical Skills II Part 1

- 3 units - semester 1

MEDIC ST 2102BHO
Clinical Skills II Part 2

- 3 units - semester 2
- Weekly lectures, PBL sessions and resource sessions
- Eligibility: MBBS students only
- Prerequisite: Year 1 MBBS Exam
- Assessment: details provided at start of year

Students are introduced to the skills of medical practice. Emphasis is placed on developing the clinical interviewing skills required to elicit and record a clinical history and to perform a physical examination. Clinical skills will be gained through placement n a hospital one day per week.

MEDIC ST 2103A
Medical Professional & Personal Development II Part 1

- 3 units - semester 1

MEDIC ST 2103B
Medical Professional & Personal Development II Part 2

- 3 units - semester 2
- Weekly lectures, PBL sessions and resource sessions
- Eligibility: MBBS students only
- Prerequisite: Year 1 MBBS Exam
- Assessment: details provided at start of year

Through this stream students will develop competency in communication with patients, relatives, allied health professionals, media and people in general. Alongside this students are assisted to develop strategies and skills for self care and for addressing attitudinal, ethical and professional aspects of life as a medical practitioner. Supporting skills in information technology, decision making, information management, organisational factors, workflow, patient safety, evidence based medicine, epidemiology are developed.

Level III

MEDIC ST 3000
Third Year MBBS Examination

MEDIC ST 3101A
Scientific Basis of Medicine III Part 1

- 3 units - semester 1

MEDIC ST 3101B
Scientific Basis of Medicine III Part 2

- 3 units - semester 2
- Weekly lectures, PBL sessions and resource sessions
- Eligibility: MBBS students only
- Prerequisite: Year 2 MBBS Exam
- Assessment: details provided at start of year

Through the study of clinical cases students will develop a knowledge and understanding of the basic scientific principles that underpin the practice of medicine. The Problem Based Learning Program emphasises the need for students to be able to explain the mechanisms responsible for the production of symptoms and signs of diseases and to be able to relate these to pathophysiology and related underlying scientific disciplines. Student learning in this program is supported by relevant resource sessions and a limited number of lectures.

MEDIC ST 3102A
Clinical Skills III Part 1

- 3 units - semester 1

MEDIC ST 3102B
Clinical Skills III Part 2

- 3 units - semester 2
- Weekly lectures, PBL sessions and resource sessions
- Eligibility: MBBS students only
- Prerequisite: Year 2 MBBS Exam
- Assessment: details provided at start of year

Students are introduced to the skills of medical practice. Emphasis is placed on developing the clinical interviewing skills required to elicit and record a clinical history and to perform a physical examination. Clinical skills will be gained by spending a full day each week in a General Practice.

MEDIC ST 3103A

Medical Professional & Personal Development III Part 1

- 3 units - semester 1

MEDIC ST 3103B

Medical Professional & Personal Development III Part 2

- 3 units - semester 2
- Weekly lectures, PBL sessions and resource sessions
- Eligibility: MBBS students only
- Prerequisite: Year 2 MBBS Exam
- Assessment: details provided at start of year

Through this stream students will develop competency in communication with patients, relatives, allied health professionals, media and people in general. Alongside this students are assisted to develop strategies and skills for self care and for addressing attitudinal, ethical and professional aspects of life as a medical practitioner. Supporting skills in information technology, decision making, information management, organisational factors, workflow, patient safety, evidence based medicine, epidemiology are developed.

Level IV

MEDIC ST 4000HO

Fourth Year MBBS Exam

MEDIC ST 4005AHO

Medical Home Unit Part 1

- 2.5 units - semester 1

MEDIC ST 4005BHO

Medical Home Unit Part 2

- 2.5 units - semester 2
- Attachments, common program and research
- Eligibility: MBBS students only
- Prerequisite: Year 3 MBBS Exam
- Assessment: details provided at start of year

The clinical attachments are a program of clinical education through a selection of placements so that students will be competent in history-taking, patient examination and management. This includes problem formulation, investigations, treatment (pharmacological and non-pharmacological), counselling, good communication skills, the practice of empathetic medicine, and a sound knowledge base that allows diagnosis and management of common disorders to be carried out under appropriate supervision. Some students will have the opportunity to undertake their training for an extended period of time in a rural or remote setting.

MEDIC ST 4006AHO

Surgical Home Unit Part 1

- 2.5 units - semester 1

MEDIC ST 4006BHO

Surgical Home Unit Part 2

- 2.5 units - semester 2
- Attachments, common program and research
- Eligibility: MBBS students only
- Prerequisite: Year 3 MBBS Exam
- Assessment: details provided at start of year

The clinical attachments are a program of clinical education through a selection of placements so that students will be competent in history-taking, patient examination and management. This includes problem formulation, investigations, treatment (pharmacological and non-pharmacological), counselling, good communication skills, the practice of empathetic medicine, and a sound knowledge base that allows diagnosis and management of common disorders to be carried out under appropriate supervision. Some students will have the opportunity to undertake their training for an extended period of time in a rural or remote setting.

MEDIC ST 4007AHO

Psychological Health Part 1

- 1.5 units - semester 1

MEDIC ST 4007BHO

Psychological Health Part 2

- 1.5 units - semester 2
- Attachments, common program and research
- Eligibility: MBBS students only
- Prerequisite: Year 3 MBBS Exam
- Assessment: details provided at start of year

The clinical attachments are a program of clinical education through a selection of placements so that students will be competent in history-taking, patient examination and management. This includes problem formulation, investigations, treatment (pharmacological and non-pharmacological), counselling, good communication skills, the practice of empathetic medicine, and a sound knowledge base that allows diagnosis and management of common disorders to be carried out under appropriate supervision. Some students will have the opportunity to undertake their training for an extended period of time in a rural or remote setting.

MEDIC ST 4008AHO

Acute and Chronic Care 1 Part 1

- 1.5 units - semester 1

MEDIC ST 4008BHO

Acute and Chronic Care 1 Part 2

- 1.5 units - semester 2
- Attachments, common program and research
- Eligibility: MBBS students only
- Prerequisite: Year 3 MBBS Exam
- Assessment: details provided at start of year

The clinical attachments are a program of clinical education through a selection of placements so that students will be competent in history-taking, patient examination and management. This includes problem formulation, investigations, treatment (pharmacological and non-pharmacological), counselling, good communication skills, the practice of empathetic medicine, and a sound knowledge base that allows diagnosis and management of common disorders to be carried out under appropriate supervision. Some students will have the opportunity to undertake their training for an extended period of time in a rural or remote setting.

MEDIC ST 4009AHO

Medical and Scientific Attachment 1 Part 1

1 unit - semester 1

MEDIC ST 4009BHO

Medical and Scientific Attachment 1 Part 2

- 1 unit - semester 2
- Attachments, common program and research
- Eligibility: MBBS students only
- Prerequisite: Year 3 MBBS Exam
- Assessment: details provided at start of year

Students will be offered options for three-week medical and scientific attachments. These attachments will have a structured program of learning activities and may be used to offer a student the opportunity for: immersion in a broad spectrum of clinical or non-clinical specialty areas and their scientific underpinning; additional research; or directed remediation.

MEDIC ST 4010AHO

Medical and Scientific Attachment 2 Part 1

- 1 unit - semester 1

MEDIC ST 4010BHO

Medical and Scientific Attachment 2 Part 2

- 1 unit - semester 2
- Attachments, common program and research
- Eligibility: MBBS students only
- Prerequisite: Year 3 MBBS Exam
- Assessment: details provided at start of year

Students will be offered options for three-week medical and scientific attachments. These attachments will have a structured program of learning activities and may be used to offer a student the opportunity for: immersion in a broad spectrum of clinical or non-clinical specialty areas and their scientific underpinning; additional research; or directed remediation.

MEDIC ST 4011AHO

Research Proposal Part 1

- 1 unit - semester 1

MEDIC ST 4011BHO

Research Proposal Part 2

- 1 unit - semester 2
- Common program and research
- Eligibility: MBBS students only
- Prerequisite: Year 3 MBBS Exam
- Assessment: details provided at start of year

Students will spend the equivalent of 1/2 day per week allocated over an academic year (including monthly one-hour meetings with a supervisor), during which they will identify a research question (agreed with their supervisor) and prepare a research proposal. This will include definition, aims and hypotheses, literature review, appropriate research methodology (including an outline of the statistical analysis) and completion of an ethics proposal including the application for appropriate ethics approvals. Students with a specific interest in research may have the opportunity to do a six-week research elective in Year 5.

MEDIC ST 4012AHO

Common Program Part 1

- 1 unit - semester 1

MEDIC ST 4012BHO

Common Program Part 2

- 1 unit - semester 2
- Weekly 1/2 day program
- Eligibility: MBBS students only
- Prerequisite: Year 3 MBBS Exam
- Assessment: details provided at start of year

The common program is a weekly 1/2 day program that integrates basic science with the clinical program.

Level V

MEDIC ST 5000HO

Fifth Year MBBS Examination

MEDIC ST 5005AHO

Medical and Scientific Attachment 3 Part 1

- 1 unit - semester 1

MEDIC ST 5005BHO

Medical and Scientific Attachment 3 Part 2

- 1 unit - semester 2
- Attachments, common program and research
- Eligibility: MBBS students only
- Prerequisite: Year 4 MBBS Exam
- Assessment: details provided at start of year

Students will be offered options for three-week medical and scientific attachments. These attachments will have a structured program of learning activities and may be used to offer a student the opportunity for: immersion in a broad spectrum of clinical or non-clinical specialty areas and their scientific underpinning; additional research; or directed remediation.

MEDIC ST 5006AHO

Medical and Scientific Attachment 4 Part 1

- 1 unit - semester 1

MEDIC ST 5006BHO

Medical and Scientific Attachment 4 Part 2

- 1 unit - semester 2
- Attachments, common program and research
- Eligibility: MBBS students only
- Prerequisite: Year 4 MBBS Exam
- Assessment: details provided at start of year

Students will be offered options for three-week medical and scientific attachments. These attachments will have a structured program of learning activities and may be used to offer a student the opportunity for: immersion in a broad spectrum of clinical or non-clinical specialty areas and their scientific underpinning; additional research; or directed remediation.

MEDIC ST 5007AHO

Medical and Scientific Attachment 5 Part 1

- 1 unit - semester 1

MEDIC ST 5007BHO

Medical and Scientific Attachment 5 Part 2

- 1 unit - semester 2
- Attachments, common program and research
- Eligibility: MBBS students only
- Prerequisite: Year 4 MBBS Exam
- Assessment: details provided at start of year

Students will be offered options for three-week medical and scientific attachments. These attachments will have a structured program of learning activities and may be used to offer a student the opportunity for: immersion in a broad spectrum of clinical or non-clinical specialty areas and their scientific underpinning; additional research; or directed remediation.

MEDIC ST 5008AHO

Medical and Scientific Attachment 6 Part 1

- 1 unit - semester 1

MEDIC ST 5008BHO

Medical and Scientific Attachment 6 Part 2

- 1 unit - semester 2
- Attachments, common program and research
- Eligibility: MBBS students only
- Prerequisite: Year 4 MBBS Exam
- Assessment: details provided at start of year

Students will be offered options for three-week medical and scientific attachments. These attachments will have a structured program of learning activities and may be used to offer a student the opportunity for: immersion in a broad spectrum of clinical or non-clinical specialty areas and their scientific underpinning; additional research; or directed remediation.

MEDIC ST 5009AHO

Acute and Chronic Care 2 Part 1

- 2 units - semester 1

MEDIC ST 5009BHO

Acute and Chronic Care 2 Part 2

- 2 units - semester 2
- Attachments, common program and research
- Eligibility: MBBS students only
- Prerequisite: Year 4 MBBS Exam
- Assessment: details provided at start of year

The clinical attachments are a program of clinical education through a selection of placements so that students will be competent in history-taking, patient examination and management. This includes problem formulation, investigations, treatment (pharmacological and non-pharmacological), counselling, good communication skills, the practice of empathetic medicine, and a sound knowledge base that allows diagnosis and management of common disorders to be carried out under appropriate supervision. Some students will have the opportunity to undertake their training for an extended period of time in a rural or remote setting.

MEDIC ST 5010AHO

Paediatrics and Child Health Part 1

- 2.5 units - semester 1

MEDIC ST 5010BHO

Paediatrics and Child Health Part 2

- 2.5 units - semester 2
- Attachments, common program and research
- Eligibility: MBBS students only
- Prerequisite: Year 4 MBBS Exam
- Assessment: details provided at start of year

The clinical attachments are a program of clinical education through a selection of placements so that students will be competent in history-taking, patient examination and management. This includes problem formulation, investigations, treatment (pharmacological and non-pharmacological), counselling, good communication skills, the practice of empathetic medicine, and a sound knowledge base that allows diagnosis and management of common disorders to be carried out under appropriate supervision. Some students will have the opportunity to undertake their training for an extended period of time in a rural or remote setting.

MEDIC ST 5011AHO

Human Reproductive Health Part 1

- 2.5 units - semester 1

MEDIC ST 5011BHO

Human Reproductive Health Part 2

- 2.5 units - semester 2
- Attachments, common program and research
- Eligibility: MBBS students only
- Prerequisite: Year 4 MBBS Exam
- Assessment: details provided at start of year

The clinical attachments are a program of clinical education through a selection of placements so that students will be competent in history-taking, patient examination and management. This includes problem formulation, investigations, treatment (pharmacological and non-pharmacological), counselling, good communication skills, the practice of empathetic medicine, and a sound knowledge base that allows diagnosis and management of common disorders to be carried out under appropriate supervision. Some students will have the opportunity to undertake their training for an extended period of time in a rural or remote setting.

MEDIC ST 5012AHO

Common Program Part 1

- 1 unit - semester 1

MEDIC ST 5012BHO

Common Program Part 2

- 1 unit - semester 2
- Weekly 1/2 day program
- Eligibility: MBBS students only
- Prerequisite: Year 4 MBBS Exam
- Assessment: details provided at start of year

The common program is a weekly 1/2 day program that integrates basic science with the clinical program.

MEDIC ST 5013HO

External Elective

- 0 unit - semester 2
- Placement in external institution
- Eligibility: MBBS students only
- Prerequisite: Year 4 MBBS Exam
- Assessment: details of placements provided to Dean of Medicine

Between Year 5 and year 6, students are required to undertake a placement at another institution, usually interstate or overseas.

Level VI

MEDIC ST 6000
Final (Sixth Year) MBBS Assessment

The Final Year of the program for the MBBS involves:

(a) 2 x 4 week placements under the supervision of the University of Adelaide's Departments of Medicine and Surgery and their clinical teachers at the Royal Adelaide Hospital, The Queen Elizabeth Hospital, Lyell McEwin Hospital, Women's and Children's Hospital and Modbury Hospital; 1 x 4 week placement under the supervision of the Emergency Medicine Department/s; 1 x 4 week clinical elective: students will have choice in selecting this elective - some students may be required to complete a clinical elective in a specified area based on decisions made at the Year 5 Board of Examiners; 16 week seminar program on Friday afternoons; 1 week program in ENT, Ophthalmology and Dermatology.

(b) Undertaking 4 x 4 week Specialist/Community or Ambulatory Placements (SCAPs) in the general areas of Medicine, Surgery, Primary Care and Psychiatry. Students have to complete a SCAP in each of these areas and they have considerable choice in defining their program. For Australian students at least one SCAP may be in a rural setting with this being optional for international students.

Through this program students will obtain results for the following component courses of MEDIC ST 6000 Final (6th Year) Assessment:

MEDIC ST 6001AHO/BHO
Clinical Elective and Specials Week VI

MEDIC ST 6002AHO/BHO
Medicine Internship and Common Program VI

MEDIC ST 6003AHO/BHO
Surgery Internship VI

MEDIC ST 6004AHO/BHO
Emergency Medicine Internship VI

MEDIC ST 6005AHO/BHO
Primary Care SCAP VI

MEDIC ST 6006AHO/BHO
Psychological Health SCAP VI

MEDIC ST 6007AHO/BHO
Medicine SCAP VI

MEDIC ST 6008AHO/BHO
Surgery SCAP VI

Each of the above courses is valued at 1.5 units and available only to MBBS students. Assessment for each course will be advised at the beginning of the year.

Honours

ANAES&IC 4000HO
Honours Anaesthesia and Intensive Care

- 24 units - full year
- Eligibility: available to BMedSc students. appropriately qualified B.Hlth.Sc. students, or with permission of Head of Department
- Assessment: to be advised at start of year

Students requiring further information concerning syllabuses and work required for the Honours degree of Bachelor of Medical Science are advised to consult the Head of the appropriate department as early as possible.

MEDICINE 4000HO
Honours Medicine

- 24 units - full year
- Eligibility: available to BMedSc students. appropriately qualified BHlthSc students, or with permission of Head of Department
- Assessment: to be advised at start of year

Students requiring further information concerning syllabuses and work required for the Honours degree of Bachelor of Medical Science are advised to consult the Head of the appropriate department as early as possible.

ORT&TRAU 4000HO
Honours Orthopaedics and Trauma

- 24 units - full year
- Eligibility: available to BMedSc students. appropriately qualified BHlthSc students, or with permission of Head of Department
- Assessment: to be advised at start of year

Students requiring further information concerning syllabuses and work required for the Honours degree of Bachelor of Medical Science are advised to consult the Head of the appropriate department as early as possible.

PAEDIAT 4000HO
Honours Paediatrics

- 24 units - full year
- Eligibility: available to BMedSc students, appropriately qualified BHlthSc students, or with permission of Head of Department
- Assessment: details available on the Department of Paediatrics web site; includes project proposal, literature review, thesis

Students requiring further information concerning syllabuses and work required for the Honours degree of Bachelor of Medical Science are advised to consult the Head of the appropriate department as early as possible.

Microbiology

Level II

MICRO 2002

Microbiology II (Biotechnology)

- 4 units - semester 1
- 3 lectures, 1 tutorial, 4 hours practical work per week
- Available for Non-Award study
- Eligibility: B. Science (Biotech) students only
- Prerequisite: BIOLOGY 1101 Biology I: Molecules, Genes and Cells A or BIOLOGY 1102 Biology I: Molecules, Genes and Cells B, and BIOLOGY 1201 Biology I: Human Perspectives or BIOLOGY 1202 Biology I: Organisms, or equivalents
- Restriction: MICRO 2004 Microbiology II or equivalents
- Assessment: exam on lecture material, written reports, tutorial & practical assessment

This course is an introduction to microbiology that provides a strong grounding in fundamental aspects of the basic biology of bacteria and viruses as well as aspects of molecular biology and genetics. Emphasis is placed on biotechnological applications of bacteria such as the cloning of bacterial, viral and eukaryotic genes, expression of recombinant proteins for therapeutic and industrial uses and development of biological control agents. Topics covered include: introduction to microorganisms and their environment, microbial structure and function; microbial molecular biology and genetics; bacterial viruses; structure, replication and classification of eukaryotic viruses; an introduction to virus-host interactions; new and emerging pathogens of humans and other animals; mechanisms by which micro-organisms cause disease in plants and animals; biotechnological applications of bacteria and viruses. Students enrolled in this course will attend one or more of Practicals A, B and C offered by the School of Molecular and Biomedical Science. Refer to Current Students Online Enrolment information at www.sciences.adelaide.edu.au for further information.

MICRO 2004

Microbiology II

- 4 units - semester 1
- 3 lectures, 1 tutorial, 4 hours practical work per week
- Available for Non-Award study
- Eligibility: B.Science, B.Health Science students only
- Prerequisite: BIOLOGY 1101 Biology I: Molecules, Genes and Cells A or BIOLOGY 1102 Biology I: Molecules, Genes and Cells B, and BIOLOGY 1201 Biology I: Human Perspectives or BIOLOGY 1202 Biology I: Organisms, or equivalents
- Restriction: MICRO 2000A Microbiology & Immunology II (Part 1) or equivalents
- Assessment: exam on lecture material, written reports, tutorial & practical assessment

This course is an introduction to microbiology that provides a strong grounding in fundamental aspects of the basic biology of bacteria and viruses as well as a strong grounding in molecular biology and microbial genetics. Emphasis is placed on the study of infectious diseases of humans, other animals and plants. Topics covered include: introduction to microorganisms and their environment, microbial structure and function; microbial molecular biology and genetics; bacterial viruses; structure, replication and classification of eukaryotic viruses; an introduction to pathogen-host interactions; new and emerging pathogens of humans and other animals; infectious disease and mechanisms by which microbial pathogens interact with animals and plants; biotechnological applications of bacteria and viruses. Students enrolled in this course will attend one or more of Practicals A, B and C offered by the School of Molecular and Biomedical Science. Refer to Current Students Online Enrolment information at www.sciences.adelaide.edu.au for further information.

MICRO 2005

Immunology and Virology II

- 4 units - semester 2
- 3 lectures, 1 tutorial, 4 hours practical work per week
- Available for Non-Award study
- Eligibility: B.Sc., B.Hlth .Sc. students only
- Prerequisite: BIOLOGY 1101 Biology I: Molecules, Genes and Cells A or BIOLOGY 1102 Biology I: Molecules, Genes and Cells B, and BIOLOGY 1201 Biology I: Human Perspectives or BIOLOGY 1202 Biology I: Organisms, or equivalents
- Assumed Knowledge: MICRO 2000A Microbiology and Immunology II or MICRO 2001A Microbiology and Immunology II (Biomedical Science) or MICRO 2002 Microbiology II (Biotechnology) or MICRO 2004 Microbiology II or equivalents
- Restriction: MICRO 2000B Microbiology & Immunology II (Part II) or equivalent
- Assessment: exam on lecture material, practical, tutorial assessment, written reports

This course introduces immunology, provides further extension in basic virology and is complementary to Microbiology II and equivalent courses. An integrated approach is used to study the mechanisms by which our immune system deals with pathogens. Topics covered in the Immunology section comprise innate and adaptive immunity, including T and B cell development, cell mediated and humoral immunity; receptors and cytokines; inflammatory responses; tolerance and autoimmunity; immunity to intra- and extra-cellular organisms such as bacteria, viruses and macroparasites. Topics covered in the Virology section include: virus-host interactions; epidemiology of virus infections; virus vaccines, antiviral drugs and viral diagnostics. Students enrolled in this course will attend one or more of Practicals A, B and C offered

by the School of Molecular and Biomedical Science. Refer to Current Students Online Enrolment information at www.sciences.adelaide.edu.au for further information.

MICRO 2101

Microbiology II (Biomedical Sc)

- 4 units - semester 1
- 3 lectures, 1 tutorial, 4 hours practical work each week
- Available for Non-Award study
- Eligibility: B.Sc.(Biomedical Science) students only
- Prerequisite: BIOLOGY 1101 Biology I: Molecules, Genes and Cells A or BIOLOGY 1102 Biology I: Molecules, Genes and Cells B, and BIOLOGY 1201 Biology I: Human Perspectives or BIOLOGY 1202 Biology I: Organisms, or equivalents
- Restriction: MICRO 2001A Microbiology and Immunology II (Biomedical Science) Part I or equivalents
- Assessment: exam on lecture material, practical, tutorial assessment, written reports

This course provides an introduction to microbiology and virology. Students studying this course will gain a strong grounding in fundamental aspects of the basic biology and molecular nature of bacteria and viruses, their molecular biology and applications for biotechnology.

Topics covered include: introduction to microorganisms and their environment, microbial structure and function; prokaryotic molecular biology and genetics; bacterial viruses; structure, replication and classification of eukaryotic viruses; virus-host interactions; new and emerging pathogens; biotechnological applications of bacteria and viruses; mechanisms by which microorganisms cause disease in plants and animals. Students enrolled in this course will attend one or more of Practicals A, B and C offered by the School of Molecular and Biomedical Science. Refer to Current Students Online Enrolment information at www.sciences.adelaide.edu.au for further information.

MICRO 2201

Immunology and Virology II (Biomedical Sc)

- 4 units - semester 2
- 3 lectures, 1 tutorial, 4 hours practical work each week
- Available for Non-Award study
- Eligibility: B.Sc.(Biomedical Science) students only
- Prerequisite: BIOLOGY 1101 Biology I: Molecules, Genes and Cells A or BIOLOGY 1102 Biology I: Molecules, Genes and Cells B, and BIOLOGY 1201 Biology I: Human Perspectives or BIOLOGY 1202 Biology I: Organisms, or equivalents
- Restriction: MICRO 2001B Microbiology and Immunology II (Biomedical Science) or equivalents
- Assumed Knowledge: MICRO 2101 Microbiology II (Biomedical Science) or equivalent
- Assessment: exam on lecture material, practical, tutorial assessment, written reports

This course introduces immunology, provides further extension in basic virology and is complementary to Microbiology II and equivalent courses. An integrated approach is used to study the mechanisms by which our immune system deals with pathogens. Topics covered in the immunology section comprise innate and adaptive immunity, including T and B cell development, cell mediated and humoral immunity; receptors and cytokines; inflammatory responses; tolerance and autoimmunity; immunity to intra- and extra-cellular organisms such as bacteria, viruses and macroparasites. Topics covered in the virology section include- virus-host interactions; epidemiology of virus infections; virus vaccines and antiviral drugs and viral diagnostics. The tutorial programme involves presentation and discussion of papers reviewing major biomedical aspects of immunology & virology. Students enrolled in this course will attend one or more of Practicals A, B and C offered by the School of Molecular and Biomedical Science. Refer to Current Students Online Enrolment information at www.sciences.adelaide.edu.au for further information.

MICRO 2203

Immunology and Virology II (Biotechnology)

- 4 units - semester 2
- 3 lectures, 1 tutorial, 4 hours practical work each week
- Available for Non-Award study
- Eligibility: B.Biotechnology & B.Sc.(Biotech) students only
- Prerequisite: BIOLOGY 1101 Biology I: Molecules, Genes and Cells A or BIOLOGY 1102 Biology I: Molecules, Genes and Cells B, and BIOLOGY 1201 Biology I: Human Perspectives or BIOLOGY 1202 Biology I: Organisms, or equivalents
- Restriction: MICRO 2003B Microbiology and Immunology IIB (Biotechnology) or equivalents
- Assumed Knowledge: MICRO 2002 Microbiology II (Biotechnology) or MICRO 2004 Microbiology II or equivalents
- Assessment: exam on lecture material; practical & tutorial assessment, written reports

This course introduces immunology, provides extension in basic virology and is complementary to Microbiology II and equivalent courses. An integrated approach is used to study the mechanisms by which our immune system deals with pathogens. Emphasis is also given to the fundamental roles of immunology and virology in Biotechnology. Topics covered in the immunology section include innate and adaptive immunity, including T and B cell development, cell mediated and humoral immunity; receptors and cytokines; inflammatory responses; tolerance and autoimmunity; immunity to intra- and extra-cellular organisms. Topics covered in the virology section include- virus-host interactions; epidemiology of virus infections; virus vaccines and antiviral drugs and viral diagnostics. Students enrolled in this course will attend one or more of Practicals A, B and C offered by the School of Molecular and

Biomedical Science. Refer to Current Students Online Enrolment information at www.sciences.adelaide.edu.au for further information.

MICRO 3000
Infection and Immunity A

- 6 units - semester 1
- 3 lectures, 1 tutorial, 8 hours practical work per week
- Available for Non-Award study
- Prerequisite: MICRO 2004 Microbiology II or MICRO 2002 Microbiology II (Biotechnology)
- Assumed Knowledge: MICRO 2005 Immunology & Virology II if either MICRO 2002 Microbiology II (Biotechnology) or MICRO 2004 Microbiology II are presented as a prerequisite
- Restriction: MICRO3102Infection and Immunity A(Biomedical Science)
- Assessment: exam on lecture material, practical component, performance in tutorials, seminars

This advanced course examines the molecular basis of interactions of microbial and viral pathogens with their environment and various hosts, especially those which infect humans. Particular emphasis is given to the use of molecular biological approaches for study of infectious disease pathogenesis, and biotechnological applications, including vaccine development.

Microbial pathogens - Global significance of infectious disease; principal approaches for investigating host-pathogen interactions; virulence factors which promote colonisation and damage to the host; role of antigenic and phase variation in virulence and disease; gene regulation, especially in relation to expression of virulence factors; invasion and intracellular survival and multiplication; resistance and avoidance of host responses; role of phage, transposons, and insertion sequences in pathogenesis and evolution of multiple drug resistance; genomic approaches to analysis of virulence; insect and parasite pathogens. Viral pathogens - structure and replication of animal viruses; comparison of virus replication strategies; pathogenesis and control of virus infections using specific examples which include hepatitis, HIV (AIDS), herpes, papilloma, polio, rabies and tumour viruses; prions.

MICRO 3001
Infection and Immunity B

- 6 units - semester 2
- 3 lectures, 1 tutorial, 8 hours practical work per week
- Available for Non-Award study
- Prerequisite: MICRO 2005 Immunology & Virology II or equivalent
- Assumed Knowledge: MICRO 2004 Microbiology II or equivalent
- Restriction: MICRO3202 Infection and Immunity B (Biomedical Science) or equivalents
- Assessment: exam on lecture material, written reports, practical & tutorial assessment

This is an advanced course that includes a detailed examination of the cellular and molecular biology of the immune system, immune responses to microbial pathogens and other antigenic stimuli and immunization against infections in humans and animals. Topics to be covered include: differentiation and activation of leukocytes; functions of leukocyte subsets; cell biology of antigen processing and presentation; molecular recognition of antigen; molecular and cellular bases of inflammation; signal transduction in immune cells; characteristics and functions of cytokines; mechanisms of immunoregulation; cellular communication and leukocyte traffic through tissues; production and use of monoclonal antibodies; local immunity at mucosal surfaces; immunity to infectious agents, including bacteria, viruses and parasites; inflammatory and autoimmune diseases such as asthma and arthritis; control and prevention of infections; strategies for the design and use of vaccines and gene therapy; Important diseases will be considered as specific examples.

MICRO 3003
Medical Microbiology and Immunology III

- 6 units - semester 1
- 3 lecture, 1 tutorial each week, 6 hours practicals
- Available for Non-Award study
- Prerequisite: Biology of Disease II or Year 1 MBBS
- Restriction: students enrolled after 2001 in MICRO 2000A/B Microbiology and Immunology II, MICRO 2001A/B Microbiology and Immunology II (Biomedical Science), MICRO 2003A/B Microbiology and Immunology II (Biotechnology) or MICRO 2002 Microbiology and MICRO 2005 Immunology and Virology II
- Assessment: written exams 90%, practical exercises 10%

The microbiology component of the course deals with the following: isolation, morphology, physiology and classification of bacteria of medical importance; the principles of action of antibiotics and chemotherapeutic agents; introduction to sterilisation and disinfection; the role of micro-organisms in human disease; an outline of infections caused by important bacterial pathogens; and principles of prophylaxis and prevention. Virology is discussed as principles of viral replication; an outline of human virus infections, epidemiology of virus infections; collection of specimens for viral diagnosis; an outline of common approaches to diagnosis in virology; and principles of treatment and prevention of infection. In immunology, there is discussion of the principles of host defences; an outline of mechanisms involved in adaptive immunity; application of these principles to vaccination and understanding sero-diagnosis; and an introduction to allergy, hypersensitivity, autoimmunity and transplantation. The course is related, whenever possible, to clinical material.

MICRO 3102

Infection & Immunity A (Biomedical Science)

- 6 units - semester 1
- 3 hours lectures, 1 tutorial, 8 hours practical work per week
- Available for Non-Award study
- Eligibility: course for B.Sc.(Biomedical Science) students only
- Prerequisite: - MICRO 2101 Microbiology II (Biomedical Science) or MICRO 2004 Microbiology II or equivalents
- Restriction: MICRO 3002A Infection and Immunity III (Biomedical Science) or equivalent
- Assessment: exam on lecture material, practical component, performance in tutorials, seminars

This advanced course examines the molecular basis of interactions of microbial and viral pathogens with their environment and various hosts, especially those which infect humans. Particular emphasis is given to the use of molecular biological approaches for study of infectious disease pathogenesis, and biotechnological applications, including vaccine development. Microbial pathogens - Global significance of infectious disease; principal approaches for investigating host-pathogen interactions; virulence factors which promote colonisation and damage to the host; role of antigenic and phase variation in virulence and disease; gene regulation, especially in relation to expression of virulence factors; invasion and intracellular survival and multiplication; resistance and avoidance of host responses; role of phage, transposons, and insertion sequences in pathogenesis and evolution of multiple drug resistance; genomic approaches to analysis of virulence; insect and parasite pathogens. Viral pathogens - structure and replication of animal viruses; comparison of virus replication strategies; pathogenesis and control of virus infections using specific examples which include hepatitis, HIV (AIDS), herpes, papilloma, polio, rabies and tumour viruses; prions.

The lecture program is complemented by tutorials, which extend skills in exploring and critically assessing the scientific literature, and practicals which develop advanced experimental skills for the study of microbial pathogenic mechanisms.

MICRO 3202

Infection and Immunity B (Biomedical Science)

- 6 units - semester 2
- 3 hours lectures, 1 tutorial, 8 hours practical work per week
- Available for Non-Award study
- Eligibility: B.Sc.(Biomedical Science) students only
- Prerequisite: MICRO 2101 Microbiology II (Biomedical Science) or MICRO 2201 Microbiology II (Biotechnology) or equivalents
- Restriction: MICRO 3002A Infection and Immunity III(Biomedical Science) or equivalents
- Assessment: exam on lecture material, practical & tutorial assessment, written reports

This course includes a detailed examination of the cellular and molecular biology of the immune system, immune responses to microbial pathogens and other antigenic stimuli and immunization against infections in humans and animals. Topics will include: differentiation and activation of leukocytes; functions of leukocyte subsets; cell biology of antigen processing and presentation; molecular recognition of antigen; molecular and cellular bases of inflammation; signal transduction in immune cells; characteristics and functions of cytokines; mechanisms of immunoregulation; cellular communication and leukocyte traffic through tissues; production and use of monoclonal antibodies; local immunity at mucosal surfaces; immunity to infectious agents, including bacteria, viruses and parasites; inflammatory and autoimmune diseases such as asthma and arthritis, control and prevention of infections; strategies for the design and use of vaccines and gene therapy; Important diseases will be considered as specific examples. Practicals will be research-based.

Honours

MICRO 4000

Honours Microbiology and Immunology

- 24 units - full year
- Prerequisite: satisfactory performance in Level III courses offered by School - students from other schools/institutions who have passed suitable Level III courses may be considered

Candidates will normally be expected to start the program at the beginning of February, but this may be altered in special circumstances. Candidates are required to devote their full time to a special program of study in either Microbiology, Immunology or Virology, involving theoretical studies, seminars and a research project under the direction and supervision of one or more staff members. Examination of a thesis presenting the results of the research project undertaken is an essential part of the assessment procedure. Full details of assessment procedures may be obtained from the Discipline.

Intending Honours candidates should consult the Discipline Leader of Microbiology and Immunology during the final year of the B.Sc.

Modern Greek

Level I

MGRE 1001
Modern Greek I Part 1

- 3 units - semester 1
- 4 hours per week
- Assessment: regular class language assessment, culture component based on individual research project

This course consists of either section A, for students who have had no formal instruction in the language - 3 hours per week, a systematic introduction to the Greek language through class interaction for gradually improving communication skills (all grammar explanations in English); or section B, for students who have had some formal instruction in the language - 3 hours per week, for gradually improving conversational and compositional skills based on a variety of contemporary themes, such as Greek culture and its multiple contexts, culture and the media, youth issues in Greece and Australia. All students will have a 1 hour lecture and class discussion on Greek Culture and Society as viewed by Europeans and by Greeks in Greece and Australia. Culture is discussed from the perspectives of cultural anthropology, and social linguistics.

MGRE 1002
Modern Greek I Part 2

- 3 units - semester 2
- 4 hours per week
- Prerequisite: MGRE 1001 Modern Greek I Part 1 (or permission of Coordinator)
- Assessment: regular class language assessment, culture component based on individual research project

Language at the appropriate level of either section A or B. Section A - 3 hours per week review of the fundamental aspects of Greek grammar and introduction to the writing of simple passages, and further class interaction for the improvement of communication skills. Section B - 3 hours per week for gradually improving sentence structure, paragraph connection, and cohesion in expression based on contemporary themes. All students take the culture component of 1 hour of lectures and discussion on aspects of Greek culture from antiquity to the present - to include folklore and contemporary culture.

Level II

MGRE 2001
Modern Greek II Part 1

- 4 units - semester 1
- 4 hours per week
- Prerequisite: MGRE 1002 Modern Greek I, Part 2
- Assessment: language - class assessments, culture - oral exam

There are two interconnected study components in this course: Greek language and culture - 3 hours per week of language classes for gradually improving conversational skills based on a variety of contemporary themes such as technology and information, environment and tourism. Greek culture and society - 1 hour per week of lectures and discussion based on a range of Greek cultural issues, popular tradition, the past in the present.

MGRE 2002
Modern Greek II Part 2

- 4 units - semester 2
- 4 hours per week
- Prerequisite: MGRE 2001 Modern Greek II Part 1
- Assessment: language - class assessments, culture - oral exam

There are two interconnected study components in this topic: Greek language and culture - 3 hours of lectures and tutorials consisting of language classes for improving conversational and compositional skills based on a variety of contemporary themes: history and the modern society; Greek culture and society - 1 hour per week of lectures and discussion based on varied textural materials with themes such as language use and cultural identity.

Level III

MGRE 3001
Modern Greek III Part 1

- 6 units - semester 1
- 4 hours per week
- Prerequisite: MGRE 2002 Modern Greek II Part 2
- Assessment: language - class assessments; culture - oral exam

There are two interconnected study components in this course: Greek language and culture - 3 hours per week of lectures and tutorials, language classes for improving conversation and compositional skills based on a variety of contemporary issues in the context of Australian-Greek relations; Greek culture and society - 1 hour per week of lectures and discussion based on current affairs and Greek cultural issues in the context of European Studies.

MGRE 3002
Modern Greek III Part 2

- 6 units - semester 2
- 4 hours per week
- Prerequisite: MGRE 3001 Modern Greek III Part 1
- Assessment: language - class assessments; culture - oral exam

There are two interconnected study components in this course: Greek language and culture - 3 hours of lectures and tutorials consisting of language classes for improving conversational skills based on a variety of contemporary themes: Greek world diaspora and language diversity; Greek culture and society - 1 hour per week of lectures and discussion based on contemporary issues in the European and global context.

Music

Level I

COMP 1500A/B
Practical Study I: Composition

- 6 units - full year
- 0.5 hour individual tuition, 1.5 hour seminar in technical studies, 1.5 hour practical workshop per week
- Eligibility: music degree students only - consult relevant Academic Program Rules
- Prerequisite: audition
- Restriction: 7349 Composition Studies
- Assessment: folio of exercises & compositions, including analysis, & recording 50%, assignments 25%, workshop presentations, participation 25%

Individual tuition: develops skills in the fundamentals of composition and expands knowledge of styles, structures, notation and score presentation. Technical studies: compositional methods and analysis. Composers' workshop: the performance of students' compositions based on projects.

ENS 1001A/B
A Kind of Blue I

- 3 units - full year
- 2 x 2 hour rehearsals per week; additional rehearsals for concerts may be required
- Eligibility: music degree students only - consult relevant Academic Program Rules
- Prerequisite: audition
- Restriction: 8784 Large Vocal Ensemble I
- Assessment: ensemble achievement in rehearsals/performances and individual contribution - 100% attendance required except in cases of illness or approved leave

Rehearsal and performance of accompanied and unaccompanied choral works in a variety of musical and choral styles: on-going development of choral, musical and ensemble skills to a high level.

ENS 1002A/B
Adelaide Connection I

- 3 units - full year
- 2 x 2 hour rehearsals per week; additional rehearsals for concerts may be required
- Eligibility: music degree students only - consult relevant Academic Program Rules
- Prerequisite: audition
- Restriction: 8784 Large Vocal Ensemble I
- Assessment: ensemble achievement in rehearsals/performances and individual contribution - 100% attendance required except in cases of illness or approved leave

Rehearsal and performance of accompanied and unaccompanied choral works in a variety of musical and choral styles: on-going development of choral, musical and ensemble skills to a high level.

ENS 1004A/B
Big Band One I

- 3 units - full year
- 3 hours per week, additional concert rehearsals may be required
- Eligibility: music degree students only - consult relevant Academic Program Rules
- Prerequisite: audition
- Restriction: 5889 Large Jazz Ensemble I
- Assessment: ensemble achievement in rehearsals/performances and individual contribution -100% attendance required except in cases of illness or approved leave

Develops musicianship in the large ensemble context by focussing on the skills of reading, listening, stylistic interpretation, intonation, blend. Rehearsals and performances within the Large Jazz Ensemble relevant to major study area (Big Bands, Guitar Bands, Keyboard Orchestra, Jazz Choirs).

ENS 1005A/B
Big Band Two I

- 3 units - full year
- 3 hours per week, additional concert rehearsals may be required
- Eligibility: music degree students only - consult relevant Academic Program Rules
- Prerequisite: audition
- Restriction: 5889 Large Jazz Ensemble I
- Assessment: ensemble achievement in rehearsals/performances and individual contribution - 100% attendance required except in cases of illness or approved leave

Develops musicianship in the large ensemble context by focussing on the skills of reading, listening, stylistic interpretation, intonation, blend. Rehearsals and performances within the Large Jazz Ensemble relevant to major study area (Big Bands, Guitar Bands, Keyboard Orchestra, Jazz Choirs).

ENS 1006A/B
Big Band Three I

- 3 units - full year
- 3 hours per week, additional concert rehearsals may be required
- Eligibility: music degree students only - consult relevant Academic Program Rules
- Prerequisite: audition
- Restriction: 5889 Large Jazz Ensemble I
- Assessment: ensemble achievement in rehearsals/performances and individual contribution - 100% attendance required except in cases of illness or approved leave

Develops musicianship in the large ensemble context by focussing on the skills of reading, listening, stylistic interpretation, intonation, blend. Rehearsals and performances within the Large Jazz Ensemble relevant to major study area (Big Bands, Guitar Bands, Keyboard Orchestra, Jazz Choirs).

ENS 1009A/B
Elder Conservatorium Symphony Orchestra I

- 3 units - full year
- Up to 5 hours Orchestra rehearsal per week, additional rehearsals for concerts may be required
- Eligibility: priority given to music degree students - consult relevant Academic Program Rules - but other students may also audition for limited number of places Prerequisite: audition
- Assessment: ensemble achievement in rehearsals/performances and individual contribution - 100% attendance required except in cases of illness or approved leave

Rehearsals and performance of repertoire for orchestra.

ENS 1010A/B
Elder Conservatorium Wind Ensemble I

- 3 or 4 hours supervised rehearsals for the Wind Ensemble per week; additional rehearsals for concerts may be required
- Prerequisite: audition
- Restriction: 9300 Large Ensemble (Wind) I
- Assessment: ensemble achievement in rehearsals/performances and individual contribution -100% attendance required except in cases of illness or approved leave

Rehearsals and performance of repertoire for wind ensemble and/or orchestra.

ENS 1011A/B
Jazz Guitar Band One I

- 3 units - full year
- 3 hours per week, additional concert rehearsals may be required
- Eligibility: music degree students only - consult relevant Academic Program Rules
- Prerequisite: audition
- Restriction: 5889 Large Jazz Ensemble I
- Assessment: ensemble achievement in rehearsals/performances and individual contribution -100% attendance required except in cases of illness or approved leave

Develops musicianship in the large ensemble context by focussing on the skills of reading, listening, stylistic interpretation, intonation, blend. Rehearsals and performances within the Large Jazz Ensemble relevant to major study area (Big Bands, Guitar Bands, Keyboard Orchestra, Jazz Choirs).

ENS 1012A/B
Jazz Guitar Band Two I

- 3 units - full year
- 3 hours per week, additional rehearsals for concerts may be required
- Eligibility: music degree students only - consult relevant Academic Program Rules
- Prerequisite: audition
- Restriction: 5889 Large Jazz Ensemble I
- Assessment: ensemble achievement in rehearsals/performances and individual contribution - 100% attendance required except in cases of illness or approved leave

Develops musicianship in the large ensemble context by focussing on the skills of reading, listening, stylistic interpretation, intonation, blend. Rehearsals and performances within the Large Jazz Ensemble relevant to major study area (Big Bands, Guitar Bands, Keyboard Orchestra, Jazz Choirs).

ENS 1017A/B
Percussion Ensemble I

- 3 units - full year
- 2 hours supervised rehearsals per week
- Eligibility: music degree students only - consult relevant Academic Program Rules
- Prerequisite: audition
- Restriction: 3665 Percussion Ensemble I
- Assessment: ensemble achievement in rehearsals/performances and individual contribution - 100% attendance required except in cases of illness or approved leave

Rehearsal and performance of repertoire for percussion ensemble.

ENS 1023A/B
Chamber Orchestra I

- 3 units - full year
- 2 hours classes and supervised rehearsals per week
- Eligibility: priority given to music degree students - consult relevant Academic Program Rules - but other students may also audition for limited number of places Prerequisite: Audition
- Restriction: 8341 Chamber Orchestra I
- Assessment: ensemble achievement in rehearsals/performances and, individual contribution -100% attendance required except in cases of illness or approved leave

Through the study of an appropriate and balanced selection of chamber orchestra repertoire, students will develop advanced techniques in ensemble playing with particular focus on musicianship, rehearsal discipline and performance experience.

ENS 1025A/B
Elder Conservatorium Chorale I

- 3 units - full year
- 2.5 hour rehearsal per week, additional rehearsals for concerts may be required
- Prerequisite: audition
- Restriction: 8784 Large Vocal Ensemble I
- Assessment: ensemble achievement in rehearsals/performances and individual contribution -100% attendance required except in cases of illness or approved leave

Rehearsal and performance of accompanied and unaccompanied choral works in a variety of musical and choral styles: on-going development of choral, musical and ensemble skills to a high level.

ENS 1026A/B
Adelaide Voices I

- 3 units - full year
- 1 x 2 hour, 1 x 1 hour rehearsals per week, additional rehearsals for concerts may be required
- Prerequisite: audition
- Assessment: ensemble achievement in rehearsals/performances and individual contribution - 100% attendance required except in cases of illness or approved leave

Rehearsal and performance of accompanied and unaccompanied choral works in a variety of musical and choral styles: on-going development of choral, musical and ensemble skills to a high level.

ENS 1027A/B
Bella Voce I

- 3 units - full year
- 2 hour rehearsals per week, additional rehearsals for concerts may be required
- Prerequisite: audition
- Restriction: 8784 Large Vocal Ensemble I
- Assessment: ensemble achievement in rehearsals/performances and individual contribution. 100% attendance required except in cases of illness or approved leave

Rehearsal and performance of accompanied and unaccompanied choral works in a variety of musical and choral styles: on-going development of choral, musical and ensemble skills to a high level.

ENS 1030
Chamber Music IA

- 1.5 units - semester 1 or 2
- 1 hour workshop, 1 hour unsupervised rehearsals per week; 5 hours supervised rehearsals per semester
- Eligibility: music degree students only - consult relevant Academic Program Rules
- Prerequisite: audition
- Restriction: 3269 Chamber Music I
- Assessment: satisfactory attendance at workshops, participation in rehearsals and performances, end of semester practical exam

Rehearse and perform works for chamber ensemble (i.e. one person to a part). This may include early music ensembles and new music ensembles.

ENS 1031
Chamber Music IB

- 1.5 units - semester 1 or 2
- 1 hour workshop, 1 hour unsupervised rehearsals per week; 5 hours supervised rehearsals per semester
- Eligibility: music degree students only - consult relevant Academic Program Rules
- Prerequisite: audition
- Restriction: 3269 Chamber Music I
- Assessment: satisfactory attendance at workshops, participation in rehearsals and performances, end of semester practical exam

Rehearse and perform works for chamber ensemble (i.e. one person to a part). This may include early music ensembles and new music ensembles.

GENMUS 1002A/B
Keyboard Laboratory I

- 3 units - not offered in 2005
- 2 hour workshop per week
- Eligibility: music degree students only - consult relevant Academic Program Rules
- Restriction: 1933 Keyboard for Singers II
- Assessment: regular performance of set exercises, studies & repertoire

Functional keyboard skills for students with minimal musical knowledge and for students with performance skills in a non-keyboard musical instrument. Participants are expected to achieve a standard of keyboard facility which enables them to perform elementary level popular and classical repertoire, to sight-read, to improvise, to harmonise and to realise simple vocal and instrumental scores. Learning is self-paced, using the keyboard laboratory's individual workstations with recording and sequencing capability for classwork and for practice.

GENMUS 1003
Musics of the World I

- 3 units - semester 2
- 3 hours per week
- Available for Non-Award study
- Ability to play or read music is not a requirement for this course
- Restriction: 5448 Music of the Non-Western World I, 9751 Music of the Non-Western World I (Arts), 1423 Introduction to Ethnomusicology I, 2673 Introduction to Ethnomusicology IIA
- Assessment: essay 40%, exam 60%

Introduction to the music of selected world cultures. Representative examples may be drawn from Australia and the Pacific, Asia, Africa, the Americas, Europe, and the Middle East. The course presents music as a form of cultural expression in a range of traditional and contemporary contexts, from ceremonial and other traditional modes of performance to popular hybrid forms referred to as 'world music'.

GENMUS 1006
Blues All Around My Head I

- 3 units - semester 1
- 3 hour lecture per week
- Prerequisite: ability to read music, familiarity with basic chord progressions
- Assessment: exam, essay

The course offers a multi-faceted look at the music(s) known as the Blues. It will consider the development of a new genre from its African and New World origins through its maturity in early 20th century Mississippi Delta Blues style. It will also look at the role of Blues in Jazz and Folk, the Chicago Electric Blues scene, Blues revivals in 1960s Rock, and a range of other manifestations of Blues in popular and world music. Apart from discussion of historical and cultural elements, the course will focus on music-stylistic and structural elements of Blues including the use of scales, chord progressions, rhythm, details of melodic style, and the use of lyrics. Presentations by vocal and instrumental practitioners will demonstrate how Blues is incorporated by contemporary musicians today.

GENMUS 1010A/B
Studies in Composition I

- 3 units - full year
- 1.5 hour seminar in technical studies, 1.5 hour practical workshop per week
- Eligibility: music degree students only – consult relevant Academic Program Rules
- Prerequisite: none
- Restriction: Practical Study: Composition I, II or III
- Assessment: semester 1- technical studies assignments 20%, workshop presentations & participation 20%; semester 2 - technical studies assignments 30%; workshop presentations & participation 30%

Study of the fundamentals of composition in various styles and genres. Technical studies seminar: compositional methods and analysis. Workshop: project-based composition leading to performance of students' works.

GENMUS 1014

Sound & Media Technology I

- 3 units - not offered in 2005
- 3 x 1 hour lectures per week
- Assessment: essay 50%, exam 50%

Study of: the use of sound in the media, with particular attention to film and television; the concepts of montage and collage and their application to sound, music, film and image; detailed scene analysis of examples from classic movies; psychological and aesthetic aspects of sound in film; the role of sound in the media.

GENMUS 1020

Choral Masterworks I

- 3 units - not offered in 2005
- 2 hour workshop
- Eligibility: only available to students enrolled in a music degree - consult relevant Academic Program Rules
- Assessment: 2 written assignments 50% each

A consideration of aspects of the School's current opera, music theatre project and / or major choral work.

GENMUS 1021

Choral Repertoire I

- 3 units - not offered in 2005
- 2 hour workshop
- Eligibility: only available to students enrolled in a music degree - consult relevant Academic Program Rules
- Assessment: 2 written assignments 50% each

A consideration of aspects of the School's current opera, music theatre project and / or major choral work.

JAZZ 1000A/B

Jazz Performance I

- 9 units - full year
- 1 hour individual tuition per wk/24 wks; jazz forum (using small jazz ensembles), presentations by guest lecturers, etc, 1.5 hours per week; technique/repertoire class (masterclass) organised according to instrumental/vocal specialisation, 1.5 hours per wk/24 wks; small jazz ensemble 1 hour supervised rehearsals per wk/24 wks - develops jazz ensemble skills through an emphasis on group organisation and individual instrumental skills
- Eligibility: music degree students only - consult relevant Academic Program Rules
- Quota may apply
- Prerequisite: audition
- Restriction:1662 Performance I (Jazz) , ENS 1019A/B Small Jazz Ensemble I
- Assessment: sem 1: 20 min technique prac. exam 20%, Small Jazz Ensemble 15%, teacher's report 5% ; sem 2 final 25 min prac. exam 40%, teacher's report 5%, Small Jazz Ensemble 15% (end of year practical exam must be passed in order to pass course)

Through the study of appropriate technical and jazz repertoire, students develop advanced technical skills together with a sound understanding of jazz style/interpretative principles. They are expected to perform their chosen repertoire with accuracy and fluency, displaying rhythmic control together with a well developed creative and expressive sense. They need to demonstrate jazz improvisation in appropriate styles and a strong conceptual understanding of the compositions performed together with an ability to communicate with their audience.

Small Jazz Ensemble: Studies the roles of band leader, soloist, sideman, rhythm section player in rehearsal, recording band and concert stage environments. Topics include: repertoire - analysis of tune structure; playing at different tempi & keys; arrangements; leader roles; ensemble communication; solo and accompaniment roles; group awareness, active listening and response; levels of density; balance; group phrasing; matching time and feel; changing feel; playing in different styles; colla voce; solo structure; solo intensification; soloing within constraints; playing in different combinations; trading 4's & 8's; stop choruses and solo breaks; playing in context, maintaining mood; recovering from mistakes; group dynamics (personal); tuning; individual sound; relaxation; playing with confidence; energy; dynamics; articulation and colour.

JAZZ 1003A/B

Improvisation I

- 3 units - full year
- 1 hour lecture/1 hour tutorial, 1 hour lecture in Applied Rhythm per week
- Eligibility: music degree students only - consult relevant Academic Program Rules
- Quota may apply
- Restriction: 7321 Improvisation I (New), 4391 Improvisation I (New)
- Assessment: assignments & participation in class 20%, written & practical exam at end of each assessment 60%, rhythm class exam 20%

Provides a foundation of common practice Jazz improvisational skills in the areas of rhythmic feel/flow, simple formulaic harmonic structures, line construction and motivic application.

Students develop and apply jazz improvisational techniques and apply basic improvisational techniques of rhythm, scales & patterns in jazz repertoire. The study of various styles beginning with dixieland, swing and blues through to early Bebop styles is considered. One hour of contact time each week will be devoted to the practical application of Afro-American rhythms.

MUSCORE 1001

Approaches to Music I

- 3 units - semester 2
- 1 hour aural, 1 hour choir, 1 hour lecture per week
- Available for Non-Award study
- Restriction: 5549 Aural Development I, 7705 Aural Training IM, 1423 Introduction to Ethnomusicology I, 2673 Introduction to Ethnomusicology IIA, 1268 Introduction to Music Literature I
- Assessment: aural - as required for stream/level 30%, choir - demonstration of individual sight singing ability & involvement in one performance per semester 30%, lecture - one hour exam 40%

Aural: Development of skills in identifying and notating melodic, harmonic and rhythmic units; development of critical listening skills through study of basic musical elements such as texture, timbre, articulation, dynamics, form, and structure. This part of the course is divided into five progressive streams for varying skill levels and areas of particular development. Beginning students will be allocated their stream on the basis of a placement test. (Continues aural instruction from semester 1 courses).

Choir: Development of aural skills through choral singing, emphasis on sight-reading, aural development and vocal skills.

Lecture: introductory survey of analytical and culture-based approaches to understanding music in its cultural context. Musical examples drawn from Western and Non-Western cultures.

MUSCORE 1002

Concepts of Composition I

- 3 units - semester 1
- 1 hour lecture, 2 hour workshop per week
- Available for Non-Award study
- Restriction: 3130 Instruments for Composers I
- Assessment: composition workshops 70%, analysis 30%

Concepts of musical form and the development of musical ideas in composition. Analysis of selected works. Introduction to the capabilities of and writing for musical instruments. 20th century compositional techniques; workshop: development of improvisation and composition skills both in groups and individually. Performance of selected compositions.

MUSCORE 1003

Music Foundations I: Classical

- 3 units - semester 1
- 1 hour aural, 1 hour choir, 1 hour lecture per week
- Available for Non-Award study
- Assumed Knowledge: SACE Stage 2 Musicianship or AMEB Grade 5 Theory
- Restriction: 1268 Introduction to Music Literature I, 1935 Music Theory I, 5549 Aural Development I, 7705 Aural Training IM
- Assessment: choir: demonstration of individual sight singing & involvement in one performance per semester 30%, aural - as required for stream/level 30%, lecture - comprising library skills workbook, assignment, 2.5 hour exam 40%

The components of Music Foundations I: Classical collectively provide a strong basis for the development of musicianship and musical understanding.

Aural: Refer to MUSCORE 1001 Approaches to Music I.

Choir: Development of aural skills through choral singing, emphasis on sight-reading, aural development and vocal skills.

Lectures - music theory terminology; library skills; guidelines for critical listening; introduction to musical analysis - harmonic principles, melodic and rhythmic organisation, form and texture. Introduction to acoustics and the perception of sound.

MUSCORE 1004

Music in Context I: Tonality & Form in Western Music

- 3 units - semester 2
- 2 x 1 hour lecture, 1 hour tutorial per week
- Available for Non-Award study
- Prerequisite: MUSCORE 1003 Music Foundations I (Classical)
- Restriction: 1935 Music Theory I
- Assessment: assignments 50%, exam 50%

Conventions of standard musical discourse in western practice. Topics to include: harmonic conventions: terminology, voice leading, chord functions and progressions, secondary chord function, modulation, altered chords (+6, N6); formal procedures: phrase and period structures, binary and ternary forms, sonata form, variation form, song forms; contrapuntal techniques; Classicism in Music (1750-1820). Topics will be explored through analysis of a range of set works, and through the study of composers including Haydn, Mozart, Beethoven and Schubert.

MUSCORE 1005

Music Foundations I: Jazz

- 3 units - semester 1
- 1 hour aural, 1 hour choir, 2 hour workshop per week
- Eligibility: music degree students only - consult relevant Academic Program Rules
- Restriction: 1268 Introduction to Music Literature I, 5549 Aural Development I, 7705 Aural Training IM, 7320 Jazz Theory I (New), 2107 Jazz Theory I
- Assessment: choir - demonstration of individual sight singing ability & involvement in one performance per semester 30%; aural - as required for stream/level 30%; workshop (assignments & ongoing assessment 50%, exam 50%) 40%

Aural: Refer to MUSCORE 1001 Approaches to Music

Choir: Development of music aural skills through choral singing, emphasis on sight-reading, aural development and vocal skills. Workshop: study of jazz theory as applied through the keyboard and taught in the keyboard laboratory including guidelines for critical listening, study and practical application of scales (tetrachords, modes of the major and minor scales, blues scale), major and minor harmony concepts including diatonic chord function and chord voicing, chord and scale relationship, smooth voice leading, diatonic and tritone substitution, chord extensions, reading and playing chord progressions. Introduction to acoustics and the perception of sound.

MUSCORE 1006

Music in Context I: Jazz

- 3 units - semester 2
- 1 hour aural, 1 hour choir, 2 hour workshop per week
- Eligibility: music degree students only - consult relevant Academic Program Rules
- Prerequisite: MUSCORE 1005 Music Foundations I: Jazz
- Restriction: 5549 Aural Development I, 7705 Aural Training IM, 7320 Jazz Theory I (New), 2107 Jazz Theory I
- Assessment: choir - demonstration of individual sight singing ability & involvement in one performance per semester 30%; aural - as required for stream/level 30%; workshop (assignments & ongoing assessment 50%, exam 50%) 40%

Aural: Refer to MUSCORE 1001 Approaches to Music I.

Choir: Development of music aural skills through choral singing, emphasis on sight-reading, aural development and vocal skills.

Workshop: Study of jazz theory as applied through the keyboard and taught in the keyboard laboratory including study and practical application of secondary dominants, cyclic progressions and turnarounds, rhythm changes, extended and altered chords, diminished scales and harmony, cadences and deceptive/delayed resolution, tune analysis, chord-scale relationships, reading and playing chord progressions.

MUSTECH 1001

Practical Study IA: Music Technology

- 3 units - semester 1
- 3 hours seminars per week/12 weeks
- Eligibility: music degree students only - consult relevant Academic Program Rules
- Prerequisite: audition
- Assessment: assignments/exams 70%, major work 30%

Historical and theoretical perspectives on new technologies in music; Theory and practice of electronic composition using analogue instruments; Principles of acoustics and their application to electronic music.

MUSTECH 1002

Practical Study IB: Music Technology

- 3 units - semester 2
- 3 hours seminars per week/12 weeks
- Eligibility: music degree students only - consult relevant Academic Program Rules
- Prerequisite: audition
- Assessment: assignments/exams 70%, major work 30%

Historical and theoretical perspectives on new technologies in music; Theory and practice of electronic composition and recording using digital technology; Compositional forms and analysis of electro-acoustic music.

PERF 1002A/B

Keyboard Musicianship I

- 3 units - full year
- 2 hour practical workshop per week
- Eligibility: music degree students only - consult relevant Academic Program Rules
- Quota may apply
- Prerequisite: audition
- Assessment: regular practical exercises, 1 individual practical assessment per semester

Development of practical skills in the areas of sight reading, transposition, keyboard harmony, figured bass, improvisation, score reading, modulation and rapid learning.

PERF 1500A/B

Classical Performance I

- Specialisations are available in: Brass, Keyboard, Percussion, Strings, Voice and Woodwind.
- 9 units - full year
- 1 hour indiv. tuition per week for 30 weeks; Classical Performance Forum 1.5 hours per week/24 weeks; technique/repertoire class, organised according to instrumental/vocal specialisation, 1.5 hours per week/24 weeks
- Eligibility: music degree students only - consult relevant Academic Program Rules
- Quota may apply
- Prerequisite: audition
- Assessment: sem 1: 20 min. technique assessment or equiv. 30%, teacher assessment 10%; sem 2: 25 min end of year prac. exam 50%, teacher's assessment 10% (end of year exam must be passed in order to pass course)

Through the study of appropriate technical and recital literature, students develop advanced technical skills together with a sound understanding of interpretative principles. They are expected to

perform their chosen repertoire with accuracy and fluency, displaying rhythmic control together with a well developed expressive sense. They need to demonstrate a strong conceptual understanding of the works performed together with an ability to communicate with their audience.

PERF 1600A/B
Practical Study I: Performance

- Specialisations are available in: Brass, Keyboard, Percussion, Strings, Voice and Woodwind.
- 6 units - full year
- 12 hours indiv. tuition over 24 weeks; Classical Performance Forum 1.5 hours per week/24 weeks; technique/repertoire class, organised according to instrumental/ vocal specialisation, 1.5 hours per week/24 weeks
- Eligibility: music degree students only - consult relevant Academic Program Rules
- Quota may apply
- Prerequisite: audition
- Assessment: sem 1: teacher assessment 5%, 10 min prac. assessment 35%; sem 2: teacher assessment 5%, 15 min prac. assessment 55% (end of year exam must be passed in order to pass course)

Technique and repertoire on an instrument or voice at levels appropriate to an individual student's attainment.

Level II

COMP 2500A/B
Practical Study II: Composition

- 6 units - full year
- 0.5 hour individual tuition, 1.5 hour seminar in technical studies, 1.5 hour practical workshop per week
- Eligibility: music degree students only - consult relevant Academic Program Rules
- Prerequisite: COMP 1002 Practical Study IB: Composition
- Restriction: 1548 Composition Studies II
- Assessment: folio of exercises & compositions, including analysis, & recording 50%, assignments 25%, workshop presentations, participation 25%

Individual tuition: develops skills in composition for various instrumental and vocal ensembles and expands knowledge of styles, structures, notation and score presentation. Technical studies: advanced study in the resources, techniques and styles of 20th century music. Composers' workshop: the performance of students' compositions based on projects.

ENS 2001A/B
A Kind of Blue II

- 3 units
- 2 x 2 hour rehearsals per week, additional rehearsals for concerts may be required
- Eligibility: music degree students only - consult relevant Academic Program Rules
- Prerequisite: audition
- Restriction: 8463 Large Vocal Ensemble II
- Assessment: ensemble achievement in rehearsals/performances and individual contribution - 100% attendance required except in cases of illness or approved leave

Rehearsal and performance of accompanied and unaccompanied choral works in a variety of musical and choral styles; on-going development of choral, musical and ensemble skills to a high level.

ENS 2002A/B
Adelaide Connection II

- 3 units - full year
- 2 x 2 hour rehearsals per week, additional rehearsals for concerts may be required
- Eligibility: music degree students only - consult relevant Academic Program Rules
- Prerequisite: audition
- Restriction: 8463 Large Vocal Ensemble II
- Assessment: ensemble achievement in rehearsals/performances and individual contribution - 100% attendance required except in cases of illness or approved leave

Rehearsal and performance of accompanied and unaccompanied choral works in a variety of musical and choral styles; on-going development of choral, musical and ensemble skills to a high level.

ENS 2004A/B
Big Band One II

- 3 units - full year
- 3 hours per week, additional concert rehearsals may be required
- Eligibility: music degree students only - consult relevant Academic Program Rules
- Prerequisite: audition
- Restriction: 4557 Large Jazz Ensemble II
- Assessment: ensemble achievement in rehearsals/performances and individual contribution -100% attendance required except in cases of illness or approved leave

Develops musicianship in the large ensemble context by focussing on the skills of reading, listening, stylistic interpretation, intonation, blend rehearsals and performances within the Large Jazz Ensemble

relevant to major study area (Big Bands, Guitar Bands, Keyboard Orchestra, Jazz Choirs).

ENS 2005A/B
Big Band Two II

- 3 units - full year
- 3 hours per week, additional concert rehearsals may be required
- Eligibility: music degree students only - consult relevant Academic Program Rules
- Prerequisite: audition
- Restriction: 4557 Large Jazz Ensemble II
- Assessment: ensemble achievement in rehearsals/performances and individual contribution - 100% attendance required except in cases of illness or approved leave

Develops musicianship in the large ensemble context by focussing on the skills of reading, listening, stylistic interpretation, intonation, blend rehearsals and performances within the Large Jazz Ensemble relevant to major study area (Big Bands, Guitar Bands, Keyboard Orchestra, Jazz Choirs).

ENS 2006A/B
Big Band Three II

- 3 units - full year
- 3 hours per week, additional concert rehearsals may be required
- Eligibility: music degree students only - consult relevant Academic Program Rules
- Prerequisite: audition
- Restriction: 4557 Large Jazz Ensemble II
- Assessment: ensemble achievement in rehearsals/performances and individual contribution - 100% attendance required except in cases of illness or approved leave

Develops musicianship in the large ensemble context by focussing on the skills of reading, listening, stylistic interpretation, intonation, blend rehearsals and performances within the Large Jazz Ensemble relevant to major study area (Big Bands, Guitar Bands, Keyboard Orchestra, Jazz Choirs).

ENS 2009A/B
Elder Conservatorium Symphony Orchestra II

- 3 units - full year
- up to 5 hours for the Orchestra per week, additional rehearsals for concerts may be required
- Eligibility: priority given to music degree students - consult relevant Academic Program Rules - but other students may also audition for limited number of places Prerequisite: relevant Level I Ensemble
- Assessment: ensemble achievement in rehearsals/performances and individual contribution - 100% attendance required except in cases of illness or approved leave

Rehearsal and performance of repertoire for orchestra

ENS 2010A/B
Elder Conservatorium Wind Ensemble II

- 3 units - full year
- 3-4 hours supervised rehearsals for the Wind Ensemble, additional rehearsals for concerts may be required
- Prerequisite: audition
- Restriction: 6358 Large Ensemble (Wind) II
- Assessment: ensemble achievement in rehearsals/performances and individual contribution - 100% attendance required except in cases of illness or approved leave

Rehearsal and performance of repertoire for wind ensemble

ENS 2011A/B
Jazz Guitar Band One II

- 3 units - full year
- 3 hours per week, additional concert rehearsals may be required
- Eligibility: music degree students only - consult relevant Academic Program Rules
- Prerequisite: audition
- Restriction: 4557 Large Jazz Ensemble II
- Assessment: ensemble achievement in rehearsals/performances and individual contribution -100% attendance required except in cases of illness or approved leave

Develops musicianship in the large ensemble context by focussing on the skills of reading, listening, stylistic interpretation, intonation, blend rehearsals and performances within the Large Jazz Ensemble relevant to major study area (Big Bands, Guitar Bands, Keyboard Orchestra, Jazz Choirs).

ENS 2012A/B
Jazz Guitar Band Two II

- 3 units - full year
- 3 hours per week, additional concert rehearsals may be required
- Eligibility: music degree students only - consult relevant Academic Program Rules
- Prerequisite: audition
- Restriction: 4557 Large Jazz Ensemble II
- Assessment: ensemble achievement in rehearsals/performances and individual contribution - 100% attendance required except in cases of illness or approved leave

Develops musicianship in the large ensemble context by focussing on the skills of reading, listening, stylistic interpretation, intonation, blend rehearsals and performances within the Large Jazz Ensemble relevant to major study area (Big Bands, Guitar Bands, Keyboard Orchestra, Jazz Choirs).

ENS 2017A/B
Percussion Ensemble II

- 3 units - full year
- 2 hours supervised rehearsals per week
- Eligibility: music degree students only - consult relevant Academic Program Rules
- Prerequisite: audition
- Restriction: 4717 Percussion Ensemble II
- Assessment: ensemble achievement in rehearsals/performances and individual contribution - 100% attendance required except in cases of illness or approved leave

Rehearsal and performance of repertoire for percussion ensemble.

ENS 2023A/B
Chamber Orchestra II

- 3 units - full year
- 2 hours classes and supervised rehearsals per week
- Eligibility: priority given to music degree students, consult relevant Academic Program Rules - other students may audition for limited number of places
- Prerequisite: audition
- Restriction: 9199 Chamber Orchestra II
- Assessment: ensemble achievement in rehearsals/performances and individual contribution - 100% attendance required except in cases of illness or approved leave

Through the study of an appropriate and balanced selection of chamber orchestra repertoire, students will develop advanced techniques in ensemble playing with particular focus on musicianship, rehearsal discipline and performance experience.

ENS 2025A/B
Elder Conservatorium Chorale II

- 3 units - full year
- 2.5 hour rehearsal per week, additional rehearsals for concerts may be required
- Prerequisite: audition
- Restriction: 8463 Large Vocal Ensemble II
- Assessment: ensemble achievement in rehearsals/performances and individual contribution - 100% attendance required except in cases of illness or approved leave

Rehearsal and performance of accompanied and unaccompanied choral works in a variety of musical and choral styles; on-going development of choral, musical and ensemble skills to a high level.

ENS 2026A/B
Adelaide Voices II

- 3 units - full year
- 2 hours, 1 x 1 hour rehearsals per week; additional rehearsals for concerts may be required
- Prerequisite: audition
- Assessment: ensemble achievement in rehearsals/performances and individual contribution - 100% attendance required except in cases of illness or approved leave

Rehearsal and performance of accompanied and unaccompanied choral works in a variety of musical and choral styles; on-going development of choral, musical and ensemble skills to a high level.

ENS 2027A/B
Bella Voce II

- 3 units - full year
- 2 hours per week, additional concert rehearsals may be required
- Prerequisite: audition
- Restriction: 8463 Large Vocal Ensemble II
- Assessment: ensemble achievement in rehearsals/performances and individual contribution - 100% attendance required except in cases of illness or approved leave

Rehearsal and performance of accompanied and unaccompanied choral works in a variety of musical and choral styles; on-going development of choral, musical and ensemble skills to a high level.

ENS 2030
Chamber Music IIA

- 1.5 units - semester 1 or 2
- 1 hour workshop per week, 1 hour of unsupervised rehearsals per week, 5 hours supervised rehearsals per semester
- Eligibility: music degree students only - consult relevant Academic Program Rules
- Prerequisite: audition
- Restriction: 7880 Chamber Music II
- Assessment: satisfactory attendance at workshops, participation in rehearsals and performances, end of semester practical exam

Rehearse and perform works for chamber ensemble (i.e. one person to a part). This may include early music ensembles and new music ensembles.

ENS 2031

Chamber Music IIB

- 1.5 units - semester 1 or 2
- 1 hour workshop, 1 hour unsupervised rehearsals per week; 5 hours supervised rehearsals per semester
- Eligibility: music degree students only - consult relevant Academic Program Rules
- Prerequisite: audition
- Restriction: 7880 Chamber Music II
- Assessment: satisfactory attendance at workshops, participation in rehearsals and performances, end of semester practical exam

Rehearse and perform works for chamber ensemble (i.e. one person to a part). This may include early music ensembles and new music ensembles.

GENMUS 2003

Instrumental Music Pedagogy II

- 3 units - semester 1
- 2 hour lecture, 1 hour tutorial per week
- Eligibility: music degree students only - consult relevant Academic Program Rules
- Quota may apply
- Prerequisite: well-established instrumental performance skills and theoretical knowledge
- Assessment: folio 70%, essay 30%

Introduction to the principal elements of instrumental music pedagogy. It is designed to equip those who may wish to undertake a limited amount of instrumental teaching with the knowledge and understanding to work empathetically and effectively with pupils, especially in a one-to-one situation. Lecture topics include the principles and philosophies underpinning the discipline, the structure and history of the profession, its examination systems and some if its recognised methodologies. Tutorials in string, wind, keyboard and other instruments concentrate on instrumental specific approaches at elementary levels with a pupil-centred focus.

GENMUS 2005

Music, Media & Contemporary Society II

- 3 units - semester 1
- 3 hours per week
- Ability to play or read music is not a requirement for this course
- Restriction: GENMUS 3005 Music, Media and Contemporary Society IIIA, 9801/5307 Music in Popular Culture II/III, 4293/8324 Music in Popular Culture II/III (Arts)
- Assessment: essay 50%, exam 50%

This course offers an examination of musical practice in contemporary society. Drawing upon a range of examples from popular music, classical music, film music, and background music, the course considers the varied aesthetic and cultural uses of music and music media. At the same time, it looks at the interconnectedness of musical practices brought about through music-oriented technology. This may be seen especially in the general impact of recording technology on all forms of music-making and consumption, but also in the business and promotional practices associated with the global music industry, and in current issues related to music copyright. Throughout the course, an emphasis will be placed on developing students' ability to critically examine and discuss aspects of musical aesthetics, behaviour, function, and meaning.

GENMUS 2006

Orchestration II

- 3 units - semester 2
- 3 hours per week
- Eligibility: music degree students only - consult relevant Academic Program Rules
- Prerequisite: MUSCORE 1003 Music Foundations I: Classical, MUSCORE 1004 Music in Context I: Tonality & Form in Western Practice
- Restriction: 7736 Orchestration Workshop II, 4851 Music Theory III (Orchestration topic)
- Assessment: participation in class 20%, folio of orchestration exercises 80%

The study of the techniques and development of orchestration from the classical period to the present day through the analysis of texture, colour and balance and the transcription of musical excerpts of various styles and genres.

GENMUS 2009

Music, Media & Contemporary Society II (Arts)

- 4 units åß - semester 1
- 3 hours per week
- Restriction: GENMUS 3005 Music, Media and Contemporary Society IIIA, 9801/5307 Music in Popular Culture II/III, 4293/8324 Music in Popular Culture II/III (Arts)
- Ability to play or read music is not a requirement for this course
- Assessment: essay 50%, exam 50%

This course offers an examination of musical practice in contemporary society. Drawing upon a range of examples from popular music, classical music, film music, and background music, the course considers the varied aesthetic and cultural uses of music and music media. At the same time, it looks at the interconnectedness of musical practices brought about through music-oriented technology. This may be seen especially in the

general impact of recording technology on all forms of music-making and consumption, but also in the business and promotional practices associated with the global music industry, and in current issues related to music copyright. Throughout the course, an emphasis will be placed on developing students' ability to critically examine and discuss aspects of musical aesthetics, behaviour, function, and meaning.

GENMUS 2010A/B
Studies in Composition II

- 3 units - full year
- 1.5 hour seminar in technical studies, 1.5 hour practical workshop per week
- Eligibility: music degree students only – consult relevant Academic Program Rules
- Prerequisite: none
- Restriction: Practical Study: Composition I, II or III
- Assessment: semester 1- technical studies assignments 20%, workshop presentations & participation 20%; semester 2 - technical studies assignments 30%, workshop presentations & participation 30%

Study of the fundamentals of composition in various styles and genres. Technical studies seminar: compositional methods and analysis. Workshop: project-based composition leading to performance of students' works.

GENMUS 2020
Choral Masterworks II

- 3 units - not offered in 2005
- 2 hour workshop
- Eligibility: music degree students only - consult relevant Academic Program Rules
- Assessment: 2 written assignments 50% each

A consideration of aspects of the School's current opera, music theatre project, and / or major choral work.

GENMUS 2021
Choral Repertoire II

- 3 units - not offered in 2005
- 2 hour workshop
- Eligibility: music degree students only - consult relevant Academic Program Rules
- Assessment: 2 written assignments 50% each

A consideration of aspects of the School's current opera, music theatre project, and / or major choral work.

GENMUS 2023
Conducting IIA

- 1.5units - semester 1
- 2 hour workshop, 1 hour repertoire, resources seminar per week
- Eligibility: music degree students only - consult relevant Academic Program Rules
- Restriction: 3833 Conducting I
- Assessment: practical assessment and viva voce

Introduction to conducting techniques (all standard beat patterns; initial development of expressive gestures and skills for reflection of musical character; use of the left hand; entries, releases, fermata, tempo and character changes); score reading, analysis and marking; developing appropriate aural skills; effective rehearsal techniques and planning; repertoire and resources, including set works.

GENMUS 2024
Conducting IIB

- 1.5 units - semester 2
- 2 hour workshop, 1 hour repertoire, resources seminar per week
- Eligibility: music degree students only - consult relevant Academic Program Rules
- Prerequisite: Pass Div I or higher in GENMUS 2023 Conducting IIA
- Restriction: 3833 Conducting I
- Assessment: practical assessment and viva voce

Continued development of conducting techniques (all standard beat patterns; initial development of expressive gestures and skills for reflection of musical character; use of the left hand; entries, releases, fermata, tempo and character changes); leadership skills; score reading, analysis and marking (orchestra, band and choir); developing appropriate aural skills; effective rehearsal techniques and planning; program building and concert planning; repertoire and resources, including set works; introduction to specific choral and instrumental techniques.

JAZZ 2000A/B
Jazz Performance II

- 9 units - full year
- 1 hour individual tuition per week/24 weeks, jazz forum (using small jazz ensembles), presentations by guest lecturers, etc, 1.5 hours per week; technique/repertoire class (masterclass) organised according to instrumental/vocal specialisation 1.5 hours per week; small jazz ensemble 1 hour supervised rehearsals per week/24 weeks; Develops small jazz ensemble skills through an emphasis on group organisation and individual instrumental skill

- Eligibility: music degree students only -consult relevant Academic Program Rules
- Prerequisite: JAZZ 1000B Jazz Performance I Part 2 at Pass 1
- Restriction: 8010 Performance II (Jazz), JAZZ 2004A/B Jazz Ensemble Practicum II
- Assessment: sem 1: 20 min. technique practical exam 20%, Small Jazz Ensemble 20%; sem semester 2 - 30 min practical exam 40%, Small Jazz Ensemble 20% (end of year practical exam must be passed in order to pass course)

Through the study of appropriate technical and jazz repertoire, students develop advanced technical skills together with a sound understanding of jazz style/interpretative principles. They are expected to perform their chosen repertoire with accuracy and fluency, displaying rhythmic control together with a well developed creative and expressive sense. They need to demonstrate jazz improvisation in appropriate styles and a strong conceptual understanding of the compositions performed together with an ability to communicate with their audience.

Small Jazz Ensemble: Studies the roles of band leader, soloist, sideman, rhythm section player in rehearsal, recording band and concert stage environments. Further develops skills in Jazz Improvisation, in the styles of Standards, Bop, Modal and Contemporary. Analysis of tune structure; playing at different tempi & keys; arrangements; leader roles; ensemble communication; solo and accompaniment roles; group awareness, active listening and response; levels of density; balance; group phrasing; matching time and feel; changing feel; playing in different styles; colla voce; solo structure; solo intensification; soloing within constraints; playing in different combinations; trading 4's & 8's; stop choruses and solo breaks; playing in context, maintaining mood; recovering from mistakes; group dynamics (personal) tuning; individual sound; relaxation; playing with confidence; energy; dynamics; articulation and colour.

JAZZ 2006A/B

Jazz Improvisation II

- 3 units - full year
- 1 hour lecture, 2 hours tutorial per week (including 1 hour Afro-American rhythms)
- Eligibility: music degree students only - consult relevant Academic Program Rules
- Prerequisite: JAZZ 1003B Improvisation 1 Part 2
- Restriction: 9314 Improvisation II
- Assessment: assignments, class participation 20%, written, practical exam at end of each assessment 60%, rhythm class exam 20%

Improvisation: development of phrasing and rhythm; forward motion, chromaticism, digital patterns, guide tones, use of altered scales; relaxation/playing at speed; accompanying, polyrhythms, reharmonisation, application of modes, pentatonic scales, melodic development techniques, polychords in contemporary improvisation; playing an introduction; playing a cadenza; unaccompanied playing ; chord substitution systems.

JAZZ 2007A/B

Jazz Arranging Class II

- 3 units - full year
- 1 hour lecture, 1 hour tutorial per week
- Eligibility: music degree students only - consult relevant Academic Program Rules
- Assessment: assignments 45%, sem. 1 exam 20%, end of year submission of arrangement 35%

Advanced techniques of textural and harmonic procedures in jazz arranging for small and medium jazz ensembles, including choirs. Study of the rhythm section, saxophone section, sketch score, score layout. Score reading and study of styles of contemporary arrangers & composers. Score and parts creation using computer software.

JAZZ 2600A/B

Practical Study II: Jazz

- 6 units - full year
- 12 hours of individual tuition over 24 weeks, 1.5 hours performance class per week, 1.5 hours Jazz Performance forum per week, 1 hour supervised small jazz ensemble laboratory per week/24 weeks
- Eligibility: only available to students enrolled in a music degree - consult relevant Academic Program Rules
- Prerequisite: JAZZ 1000B Jazz Performance I Part 2
- Restriction: 7558 Performance IIB (Jazz)
- Assessment: semester 1: teacher's report 5%, ensemble laboratory 10%, 10 min mid-year assessment 20%: semester 2: teacher's report 5%, 15 min practical assessment 50%, ensemble laboratory 10% (The end of year practical exam must be passed in order to pass course)

Technique and repertoire on an instrument or voice at levels appropriate to an individual student's attainments. All students must attend an individual lesson and a 1.5hour performance class particular to their major study.

MUSCORE 2001

Music in Context IIA: Polyphony & Harmony

- 3 units - semester 1
- 1 hour aural, 1 hour lecture, 1 hour tutorial per week
- Assumed Knowledge: harmonic conventions & formal procedures of western music (refer to MUSCORE 1004 Music in Context I: Tonality and Form in Western Music for more detail)

- Restriction: 2770 Harmony Workshop IIIA, 1222 Aural Development II, 1930 Aural Training IIM, 4851 Music Theory III (harmony topic)
- Assessment: exam 30%, assignments 40%, Aural as required for stream/level 30%

Aural - refer to MUSCORE 1001 Approaches to Music I.
Lectures - a survey and analysis of polyphonic and contrapuntal practice in a wide variety of styles and historical eras.
Tutorials - analytical study of polyphonic music (with particular attention to set works) and practical applications in the writing of contrapuntal music.

MUSCORE 2002

Music in Context IIB: Nineteenth Century Music

- 3 units - semester 2
- 1 hour aural, 1 hour lecture, 1 hour tutorial
- Assumed Knowledge: harmonic conventions & formal procedures of western music (refer to MUSCORE 1004 Music in Context I: Tonality and Form in Western Music for more details)
- Restriction: 1222 Aural Development II, 1930 Aural Training
- Assessment: lectures - 2000 word essay 30%, tutorial - assignments 40%, aural - as required for stream 30%

Aural: refer to MUSCORE 1001 Approaches to Music I; Lectures: Historical and cultural studies of European Music in the 19th century, and the currents of thought, social and political changes, and technological developments that shaped it; Tutorials: theoretical and analytical studies of thematic, harmonic, stylistic and formal aspects of 19th century music. Topics will include chromatic harmony; the progressive expansion and subsequent dissolution of tonality.

MUSCORE 2003

Music in Context IIA: Jazz

- 3 units - semester 1
- 1 hour aural, 1 hour theory lecture, 1 hour theory tutorial, 1 hour history lecture per week
- Eligibility: only available to students enrolled in a music degree - consult relevant Academic Program Rules
- Prerequisite: MUSCORE 1005 Music Foundations I: Jazz, MUSCORE 1006 Music in Context I: Jazz
- Restriction: 1222 Aural Development II, 1930 Aural Training IIM, 2008 Jazz Theory II, JAZZ 2003A/B Jazz History II
- Assessment: aural: as required for stream 20%; theory (comprising weekly assignments & tests 50%, exam 50%) 40%; history (written exam 60%, ongoing assessment - assignments & tutorial participation 20%, 2000 word essay 20%) 40%

Aural: Refer to MUSCORE 1001Approaches to Music I.
Theory: development of an advanced knowledge of jazz harmony and melody. Considers the harmony of jazz standards (topics include minor key harmony, modal interchange, secondary and substitute dominants, tonicisation and modulation), theoretical aspects of the bebop style (rhythmic aspects, synchronised lines, harmonic super-imposition), symmetrical scales and diminished harmony, and the function of diminished chords in jazz harmony.
History: Facilitate understanding of social, economic and political factors involved in the development of Afro-American music from its West African roots to the present day; develop the ability to analyse the specific stylistic features of each historical period of jazz, including transitional and related forms, and to identify major trends in the development of the music; develop ability to assess and place into historical perspective the innovations and developments of the major contributors from early jazz to contemporary styles. Topics include: analysis of various styles of jazz ranging from New Orleans to contemporary; musical concepts in jazz styles; roles of instruments; study of set works.

MUSCORE 2004

Music in Context IIB: Jazz

- 3 units - semester 2
- 1 hour aural, 1 hour theory lecture, 1 hour theory tutorial, 1 hour history lecture per week
- Eligibility: music degree students only - consult relevant Academic Program Rules
- Prerequisite: MUSCORE 2003 Music in Context IIA: Jazz
- Restriction: 1222 Aural Development II, 1930 Aural Training IIM, 2008 Jazz Theory II, JAZZ 2003A/B Jazz History II
- Assessment: aural: as required for stream 20%; theory (comprising weekly assignments & tests 50%, exam 50%) 40%; history (written exam 60%, ongoing assessment - assignments & tutorial participation 20%, 2000 word essay 20%) 40%

Aural: Refer to MUSCORE 1001 Approaches to Music I.
Theory: development of an understanding of the tonal organisation and rhythmic structure of contemporary jazz. Considers modal harmony (distinctive pitches within modes, modal cadences, modal composition and analysis), pentatonics (construction and usage of pentatonics, harmonising in fourths), and chord substitution (including study of diatonic and tritone substitution, use of altered and extended chords, and reharmonisation).

History: Facilitate understanding of social, economic and political factors involved in the development of Afro-American music from its West African roots to the present day; develop the ability to analyse the specific stylistic features of each historical period of jazz, including transitional and related forms, and to identify major trends in the development of the music; develop ability to assess and place into historical perspective the innovations and developments of the major contributors from early jazz to contemporary styles. Topics include: analysis of various styles of jazz ranging from New Orleans to contemporary; musical concepts in jazz styles; roles of instruments; study of set works.

MUSED 2001

Music Education IIA

- 3 units - semester 1
- 1 hour lecture, 2 hour workshop per week
- Eligibility: music degree students only - consult relevant Academic Program Rules
- Restriction: 5553 Music Education IIM (New). Only available to students enrolled in a Music degree. Consult relevant Academic Program Rules
- Assessment: assignments 30%, exam 40%, journal of observation visits 30%

Stylistic aspects of writing for percussion and rhythm section instruments. Developing experience in percussion and rhythm section playing techniques. Introduction to the principles and processes of music learning, including the nature of musical ability, learning styles, environmental influences, and skill acquisition. Observation visits to a variety of schools.

MUSED 2002

Music Education IIB

- 3 units - semester 2
- 1 hour lecture, 2 hour workshop per week
- Eligibility: music degree students only - consult relevant Academic Program Rules
- Prerequisite: MUSED 2001 Music Education IIA
- Restriction: 5553 Music Education IIM (New)
- Assessment: woodwind methodology journal & practical demonstration 30%, essay 40%, journal of improvisation & composition 30%

Woodwind methodology involving learning about the woodwind family, gaining experience in writing for and playing woodwind instruments and basic methodology. Functional musical skills including techniques of improvisation and composition in a variety of genres and styles. Music education history and philosophies. The development of music education in Australia. An overview of music education methodologies, including Orff, Kodaly, Dalcroze, Suzuki and Yamaha.

MUSED 2003A/B

Music Education Ensembles II

- 3 units - full year
- 2 hour ensemble (jointly with Music Education Level III), 1 hour lecture per week
- Eligibility: music degree students only - consult relevant Academic Program Rules
- Restriction: 5553 Music Education IIM (New)
- Assessment: arranging exercises 20%, arrangement/s 60%, participation 20%

Participation in rehearsals and performance of the Music Education Band and Choir involving repertoire of classical and popular genres. Basic conducting and rehearsal techniques. Principles of arranging music for instrumental and vocal ensembles.

MUSST 2001

Approaches to Music IIA

- 3 units - semester 1
- 2 hour lecture/discussion, 1 hour tutorials per week
- Prerequisite: MUSCORE 1001 Approaches to Music I
- Restriction: 1685 Ethnomusicology II, 1492 Ethnomusicology IIIC, 9879 Musicology II, 4127 Musicology IIIC
- Assessment: assignment 30%, 2000 word essay 40%, exam 30%

Introduction to approaches to the cultural study of music. Investigation of the intellectual development and methods of music research including Ethnomusicology and Musicology through seminars and tutorial exercises.

MUSST 2002

Approaches to Music IIB

- 3 units - semester 2
- 2 hour lecture, 1 hour tutorial per week
- Assessment: assignment 20%, 3000 word essay 60%, oral presentation of research 20%

Case studies and methods for understanding traditional and contemporary music and culture.

MUSTECH 2001

Practical Study IIA: Music Technology

- 3 units - semester 1
- 3 hours seminars per week/12 weeks
- Eligibility: music degree students only - consult relevant Academic Program Rules
- Prerequisite: audition
- Assessment: assignments/exams 70%, major work 30%

Theory and practice of MIDI technology; modular computer music programming; mathematical concepts in computer music composition.

MUSTECH 2002

Practical Study IIB: Music Technology

- 3 units - semester 2
- 3 hours seminars per week/12 weeks
- Eligibility: music degree students only - consult relevant Academic Program Rules
- Prerequisite: audition
- Assessment: assignments/exams 70%, major work 30%

Theory and practice of music software design; standard and experimental studio recording; new compositional concepts and techniques in computer music and electro-acoustic music.

PERF 2001A/B
Accompanying II

- 3 units - full year
- 2 hour lecture/workshop per week
- Eligibility: music degree students only - consult relevant Academic Program Rules
- Quota may be apply
- Prerequisite: PERF 1002A/B Keyboard Musicianship I
- Assessment: 3 practical assessments 25% each, log book 25%

Introduction to the art of accompanying. Development of ensemble skills, rehearsal techniques and management of the rehearsal process. Experience of piano duets and work as an accompanist and associate artist in first rehearsal situations with a variety of instrumentalists and vocalists.

PERF 2003A/B
Stagecraft II

- 3 units - full year
- 2 hour workshop per week, 1 hour movement class
- Eligibility: music degree students only - consult relevant Academic Program Rules
- Restriction: 7255 Stagecraft II
- Assessment: weekly log 60%, attendance & participation 40%

Development of skills in presentation and stagecraft, movement, posture, gesture and acting, integration of movement skills with dramatic expression, characterisation and analysis.

PERF 2004A/B
Voice Practicum II

- 3 units - full year
- 3 hours per week
- Eligibility: music degree students only - consult relevant Academic Program Rules
- Restriction: 3135 Italian for Singers
- Assessment: repertoire class 20%, language class assignments 80%

Repertoire class; language (Italian)

PERF 2500A/B
Classical Performance II

- Specialisations are available in: Brass, Keyboard, Percussion, Strings, Voice and Woodwind
- 9 units - full year
- 1 hour indiv. tuition per wk/30 wks; Classical Performance Forum 1.5.hours per wk/24 wks; technique/repertoire class, organised on instrumental/vocal specialisation, 1.5 hours per wk /24 wks
- Eligibility: music degree students only - consult relevant Academic Program Rules
- Prerequisite: PERF 1500B Classical Performance I Part 2 at Pass 1 level or above in the relevant instrument
- Assessment: sem 1:25 minute technique assessment or equiv. 40%; sem 2: 35 min end of year practical exam 60%, (end of year exam must be passed in order to pass course)

Through the study of appropriate technical and recital literature, students develop advanced technical skills together with a sound understanding of interpretative principles. They are expected to perform their chosen repertoire with accuracy and fluency, displaying rhythmic control together with a well-developed expressive sense. They need to demonstrate a strong conceptual understanding of the works performed together with an ability to communicate with their audience.

PERF 2600A/B
Practical Study II: Performance

- Specialisations are available in: Brass, Keyboard, Percussion, Strings, Voice and Woodwind
- 6 units - full year
- 12 hours indiv. tuition over 24 weeks; Classical Performance Forum 1.5 hours per wk/24 wks; technique/repertoire class, organised on instrumental/ vocal specialisation, 1.5 hours per wk/24 wks
- Eligibility: music degree students only - consult relevant Academic Program Rules
- Prerequisite: PERF 1600B Practical Study I: Performance part 2
- Assessment: sem I: teacher assessment 5%, 10 min prac. assessment 35%; sem 2 - teacher assessment 5%, 15 min practical assessment 55% (end of year exam must be passed in order to pass course)

Technique and repertoire on an instrument or voice at levels appropriate to an individual student's attainments.

Level III

COMP 3500A/B
Practical Study III: Composition

- 6 units - full year
- .5 hour individual tuition, 1.5 hour seminar in technical studies, 10.5 hour practical workshop per week
- Eligibility: music degree students only - consult relevant Academic Program Rules
- Prerequisite: COMP 2002 Practical Study IIB
- Restriction: 4862 Composition Studies III

- Assessment: folio of exercises & compositions, including analysis & recording, concert presentation of original compositions 50%, assignments & seminar paper 30%, workshop presentations & participation 20%

Individual tuition: Develops skills in composition for various instrumental and vocal ensembles and expands knowledge of styles, structures, notation and score presentation. Technical studies: Advanced compositional and analysis techniques. Composers' workshop: The performance of students' compositions based on projects.

ENS 3001A/B
A Kind of Blue III

- 3 units
- 2 x 1.5 hour rehearsals per week, additional rehearsals for concerts may be required
- Eligibility: music degree students only - consult relevant Academic Program Rules
- Prerequisite: audition
- Restriction: 8463 Large Vocal Ensemble II
- Assessment: ensemble achievement in rehearsals/performances and individual contribution - 100% attendance required except in cases of illness or approved leave

Rehearsal and performance of accompanied and unaccompanied choral works in a variety of musical and choral styles; on-going development of choral, musical and ensemble skills to a high level.

ENS 3002A/B
Adelaide Connection III

- 3 units - full year
- 2 hours per week, additional concert rehearsals may be required
- Eligibility: music degree students only - consult relevant Academic Program Rules
- Prerequisite: audition
- Restriction: 8463 Large Vocal Ensemble II
- Assessment: ensemble achievement in rehearsals/performances and individual contributio - 100% attendance required except in cases of illness or approved leave

Rehearsal and performance of accompanied and unaccompanied choral works in a variety of musical and choral styles; on-going development of choral, musical and ensemble skills to a high level.

ENS 3004A/B
Big Band One III

- 3 units - full year
- 3 hours per week, additional concert rehearsals may be required
- Eligibility: music degree students only - consult relevant Academic Program Rules
- Prerequisite: audition
- Restriction: 4557 Large Jazz Ensemble II
- Assessment: ensemble achievement in rehearsals/performances and individual contribution - 100% attendance required except in cases of illness or approved leave

Develops musicianship in the large ensemble context by focussing on the skills of reading, listening, stylistic interpretation, intonation, blend rehearsals and performances within the Large Jazz Ensemble relevant to major study area (Big Bands, Guitar Bands, Keyboard Orchestra, Jazz Choirs).

ENS 3005A/B
Big Band Two III

- 3 units - full year
- 3 hours per week, additional concert rehearsals may be required
- Eligibility: music degree students only - consult relevant Academic Program Rules
- Prerequisite: audition
- Restriction: 4557 Large Jazz Ensemble II
- Assessment: ensemble achievement in rehearsals/performances and individual contribution - 100% attendance required except in cases of illness or approved leave

Develops musicianship in the large ensemble context by focussing on the skills of reading, listening, stylistic interpretation, intonation, blend rehearsals and performances within the Large Jazz Ensemble relevant to major study area (Big Bands, Guitar Bands, Keyboard Orchestra, Jazz Choirs).

ENS 3006A/B
Big Band Three III

- 3 units - full year
- 3 hours per week, additional concert rehearsals may be required
- Eligibility: music degree students only - consult relevant Academic Program Rules
- Prerequisite: audition
- Restriction: 4557 Large Jazz Ensemble II
- Assessment: ensemble achievement in rehearsals/performances and individual contribution - 100% attendance required except in cases of illness or approved leave

Develops musicianship in the large ensemble context by focussing on the skills of reading, listening, stylistic interpretation, intonation, blend rehearsals and performances within the Large Jazz Ensemble relevant to major study area (Big Bands, Guitar Bands, Keyboard Orchestra, Jazz Choirs).

ENS 3009A/B
Elder Conservatorium Symphony Orchestra III

- 3 units - full year
- Up to 5 hours of supervised rehearsals (or equivalent) per week. Additional rehearsals for concerts may be required
- Eligibility: priority given to music degree students - consult relevant Academic Program Rules - but other students may also audition for limited number of places Prerequisite: audition
- Restriction: 8163 Orchestra III
- Assessment: ensemble achievement in rehearsals and performances and individual contribution - 100% attendance required except in cases of illness or approved leave

Rehearsal and performance of repertoire for symphony orchestra.

ENS 3010A/B
Elder Conservatorium Wind Ensemble III

- 3 units - full year
- 3-4 hours supervised rehearsals for the Wind Ensemble, additional rehearsals for concerts may be required
- Prerequisite: audition
- Restriction: 2705 Large Ensemble (Wind) III
- Assessment: ensemble achievement in rehearsals/performances and individual contribution - 100% attendance required except in cases of illness or approved leave

Rehearsal and performance of repertoire for wind ensemble

ENS 3011A/B
Jazz Guitar Band One III

- 3 units - full year
- 3 hours per week, additional concert rehearsals may be required
- Eligibility: music degree students only - consult relevant Academic Program Rules
- Prerequisite: audition
- Restriction: 4557 Large Jazz Ensemble II
- Assessment: ensemble achievement in rehearsals/performances and individual contribution - 100% attendance required except in cases of illness or approved leave

Develops musicianship in the large ensemble context by focussing on the skills of reading, listening, stylistic interpretation, intonation, blend rehearsals and performances within the Large Jazz Ensemble relevant to major study area (Big Bands, Guitar Bands, Keyboard Orchestra, Jazz Choirs).

ENS 3012A/B
Jazz Guitar Band Two III

- 3 units - full year
- 3 hours per week, additional concert rehearsals may be required
- Eligibility: music degree students only - consult relevant Academic Program Rules
- Prerequisite: audition
- Restriction: 8964 Large Jazz Ensemble III
- Assessment: ensemble achievement in rehearsals/performances and individual contribution - 100% attendance required except in cases of illness or approved leave

Develops musicianship in the large ensemble context by focussing on the skills of reading, listening, stylistic interpretation, intonation, blend rehearsals and performances within the Large Jazz Ensemble relevant to major study area (Big Bands, Guitar Bands, Keyboard Orchestra, Jazz Choirs).

ENS 3017A/B
Percussion Ensemble III

- 3 units - full year
- 2 hours supervised rehearsals per week
- Eligibility: music degree students only - consult relevant Academic Program Rules
- Prerequisite: audition
- Restriction: 8677 Percussion Ensemble III
- Assessment: ensemble achievement in rehearsals/performances and individual contribution - 100% attendance required except in cases of illness or approved leave

Rehearsal and performance of repertoire for percussion ensemble.

ENS 3023A/B
Chamber Orchestra III

- 3 units - full year
- 2 hours classes and supervised rehearsals per week
- Eligibility: priority given to music degree students, consult relevant Academic Program Rules - other students may audition for limited number of places Prerequisite: audition
- Restriction: 7399 Chamber Orchestra III
- Assessment: ensemble achievement in rehearsals/performances and individual contribution - 100% attendance required except in cases of illness or approved leave

Through the study of an appropriate and balanced selection of chamber orchestra repertoire, students will develop advanced techniques in ensemble playing with particular focus on musicianship, rehearsal discipline and performance experience.

ENS 3025A/B

Elder Con Chorale III

- 3 units - full year
- 2.5 hour rehearsal per week, additional rehearsals for concerts may be required
- Prerequisite: audition
- Restriction: 8463 Large Vocal Ensemble II
- Assessment: ensemble achievement in rehearsals/performances and individual contribution - 100% attendance required except in cases of illness or approved leave

Rehearsal and performance of accompanied and unaccompanied choral works in a variety of musical and choral styles; on-going development of choral, musical and ensemble skills to a high level.

ENS 3026A/B

Adelaide Voices III

- 3 units - full year
- 2 hour, 1 x 1 hour rehearsals per week; additional rehearsals for concerts may be required
- Prerequisite: audition
- Assessment: ensemble achievement in rehearsals/performances and individual contribution - 100% attendance required except in cases of illness or approved leave

Rehearsal and performance of accompanied and unaccompanied choral works in a variety of musical and choral styles; on-going development of choral, musical and ensemble skills to a high level.

ENS 3027A/B

Bella Voce III

- 3 units - full year
- 2 hours per week, additional concert rehearsals may be required
- Prerequisite: audition
- Restriction: 5106 Large Vocal Ensemble III
- Assessment: ensemble achievement in rehearsals/performances and individual contribution -100% attendance required except in cases of illness or approved leave

Rehearsal and performance of accompanied and unaccompanied choral works in a variety of musical and choral styles; on-going development of choral, musical and ensemble skills to a high level.

ENS 3030

Chamber Music IIIA

- 1.5 units - semester 1 or 2
- 1 hour workshop, 1 hour unsupervised rehearsals per week; 5 hours supervised rehearsals per semester
- Eligibility: music degree students only - consult relevant Academic Program Rules
- Prerequisite: audition
- Restriction: 9050 Chamber Music III
- Assessment: satisfactory attendance at workshops, participation in rehearsals and performances, end of semester practical exam

Rehearse and perform works for chamber ensemble (i.e. one person to a part). This may include early music ensembles and new music ensembles.

ENS 3031

Chamber Music IIIB

- 1.5 units - semester 1 or 2
- 1 hour workshop, 1 hour unsupervised rehearsals per week; 5 hours supervised rehearsals per semester
- Eligibility: music degree students only - consult relevant Academic Program Rules
- Prerequisite: audition
- Restriction: 9050 Chamber Music III
- Assessment: satisfactory attendance at workshops, participation in rehearsals and performances, end of semester practical exam

Rehearse and perform works for chamber ensemble (i.e. one person to a part). This may include early music ensembles and new music ensembles.

GENMUS 3004

Instrumental Music Pedagogy III

- 3 units - semester 2
- 2 hour workshop per week
- Eligibility: music degree students only - consult relevant Academic Program Rules
- Quota may apply
- Prerequisite: GENMUS 2003 Instrumental Music Pedagogy III or equivalent prior knowledge and experience
- Restriction: GENMUS 2004 Instrumental Music Pedagogy IIB
- Assessment: 3000 word teaching log 50%, 4 video extracts demonstrating teaching skills 50%

Development of an ability to foster the learning potential of pupils and designed for students who have already begun to teach an instrument. Congruent verbal and non-verbal behaviours, use of appropriate vocabularies, the development of diagnostic, evaluative and planning techniques, the encouragement of creative thinking in pupils and teaching for musical meaning are included in a non instrument specific workshop situation using demonstrating, video recording and reporting techniques.

GENMUS 3005
Music, Media & Contemporary Society III

- 3 units - semester 1
- 3 hours per week
- Restriction: GENMUS 3005 Music, Media and Contemporary Society IIIA, 9801/5307 Music in Popular Culture II/III, 4293/8324 Music in Popular Culture II/III (Arts)
- Assessment: essay 50%, exam 50%

This course offers an examination of musical practice in contemporary society. Drawing upon a range of examples from popular music, classical music, film music, and background music, the course considers the varied aesthetic and cultural uses of music and music media. At the same time, it looks at the interconnectedness of musical practices brought about through music-oriented technology. This may be seen especially in the general impact of recording technology on all forms of music-making and consumption, but also in the business and promotional practices associated with the global music industry, and in current issues related to music copyright. Throughout the course, an emphasis will be placed on developing students' ability to critically examine and discuss aspects of musical aesthetics, behaviour, function, and meaning.

GENMUS 3009
Music, Media & Contemporary Society III (Arts)

- 6 units - semester 1
- 3 hours per week
- Restriction: GENMUS 3005 Music, Media and Contemporary Society IIIA, 9801/5307 Music in Popular Culture II/III, 4293/8324 Music in Popular Culture II/III (Arts)
- Ability to play or read music is not a requirement for this course
- Assessment: essay 50%, exam 50%

This course offers an examination of musical practice in contemporary society. Drawing upon a range of examples from popular music, classical music, film music, and background music, the course considers the varied aesthetic and cultural uses of music and music media. At the same time, it looks at the interconnectedness of musical practices brought about through music-oriented technology. This may be seen especially in the general impact of recording technology on all forms of music-making and consumption, but also in the business and promotional practices associated with the global music industry, and in current issues related to music copyright. Throughout the course, an emphasis will be placed on developing students' ability to critically examine and discuss aspects of musical aesthetics, behaviour, function, and meaning.

GENMUS 3010A/B
Studies in Composition III

- 3 units - full year
- 1.5 hour seminar in technical studies, 1.5 hour practical workshop per week
- Eligibility: music degree students only – consult relevant Academic Program Rules
- Prerequisite: none
- Restriction: Practical Study: Composition I, II or III
- Assessment: semester 1: technical studies assignments 20%, workshop presentations and participation 20%; Semester 2 - technical studies assignments 30%, workshop presentations and participation 30%

Study of the fundamentals of composition in various styles and genres. Technical studies seminar: compositional methods and analysis. Workshop: project-based composition leading to performance of students' works.

GENMUS 3020
Choral Masterworks III

- 3 units - not offered in 2005
- 2 hour workshop
- Eligibility: music degree students only - consult relevant Academic Program Rules
- Assessment: 2 written assignments, each 50%

A consideration of aspects of the School's current opera, music theatre project, and / or major choral work.

GENMUS 3021
Choral Repertoire III

- 3 units - not offered in 2005
- 2 hour workshop
- Eligibility: only available to students enrolled in a music degree - consult relevant Academic Program Rules
- Assessment: 2 written assignments 50% each

A consideration of aspects of the School's current opera, music theatre project, and / or major choral work.

GENMUS 3023
Conducting IIIA

- 1.5 units - semester 1
- 2 hour workshop, 1 hour repertoire/resources seminar per week
- Eligibility: music degree students only - consult relevant Academic Program Rules
- Prerequisite: credit or higher in GENMUS 2024 Conducting IIB

- Assessment: assignments including score preparation, rehearsal planning, repertoire study, development of specific aural skills and observation and review 40%, 2 x viva voce and practical assessments 60%

Choral techniques. Continued development of specific skills and techniques for working with choirs including developing choral tone; diction; working with a variety of musical and choral styles; introduction to choral singing in languages other than English; advanced ensemble skills; effective rehearsal and problem solving; development of specific aural skills; working with a variety of musical styles and performance practices; repertoire and resources study including detailed score study of selected set works.

GENMUS 3024
Conducting IIIB

- 1.5 units - semester 2
- 2 hour workshop, 1 hour repertoire/resources seminar per week
- Eligibility: music degree students only - consult relevant Academic Program Rules
- Prerequisite: credit or higher in GENMUS 3023 Conducting IIIA
- Restriction: Conducting IIIB
- Assessment: assignments including score preparation, rehearsal planning, repertoire study & development of specific aural skills and observation and review 40%, 2 x viva voce and practical assessments 40%, class participation 20%

Instrumental ensemble techniques. Continued development of specific skills and techniques for working with orchestras, concert bands and other instrumental ensembles; diction; working with a variety of musical styles; advanced ensemble skills; developing a conductor's working knowledge of relevant instruments; effective rehearsal and problem solving; development of specific aural skills; working with a variety of musical styles and performance practices; repertoire and resources study including detailed score study of selected set works.

JAZZ 3000A/B
Jazz Performance III

- 9 units - full year
- 1 hour individual tuition per week/24 weeks, jazz forum (using small jazz ensembles), presentations by guest lecturers, etc. 1.5 hours per week; technique/repertoire class (master class): organised according to instrumental/vocal specialisation 1.5 hours per week; small jazz ensemble: further develops small jazz ensemble skills through an emphasis on group organisation and individual instrumental skills
- Eligibility: music degree students only - consult relevant Academic Program Rules
- Prerequisite: JAZZ 2000B Jazz Performance II Pt 2, Pass 1 or above
- Restriction: 7054 Performance III (Jazz), 3395 Jazz Ensemble Small III
- Assessment: sem 1: 30 min mid year practical exam with a technical focus 20%, Small Jazz Ensemble 20%; sem 2 final 45 min practical exam 40%, Small Jazz Ensemble 20% (final practical exam must be passed in order to pass course)

Through the study of appropriate technical and jazz repertoire, students develop advanced technical skills together with a sound understanding of jazz style/interpretative principles. They are expected to perform their chosen repertoire with accuracy and fluency, displaying rhythmic control together with a well developed creative and expressive sense. They need to demonstrate jazz improvisation in appropriate style and a strong conceptual understanding of the compositions performed together with an ability to communicate with their audience.

Small Jazz Ensemble: Studies the roles of band leader, soloist, sideman, rhythm section player in rehearsal, recording band and concert stage environments. Further develops advanced techniques of jazz improvisation in all styles, with an emphasis on contemporary techniques and styles. Small jazz ensemble: Topics include: repertoire - analysis of tune structure; playing in different tempi & keys; arrangements; leader roles; ensemble communication; solo and accompaniment roles; group awareness, active listening and response; levels of density; balance; group phrasing; matching time and feel; changing feel; playing in different styles; colla voce; solo structure; solo intensification soloing within constraints; playing in different combinations; trading 4's & 8's; stop choruses and solo breaks; playing in context, maintaining mood; recovering from mistakes; group dynamics (personal); tuning; individual sound; relaxation; playing with confidence; energy; dynamics; articulation & colour.

JAZZ 3005A/B
Jazz Improvisation III

- 3 units - full year
- 1 hour lecture, 1 hour tutorial
- Eligibility: only available to students enrolled in a music degree - consult relevant Academic Program Rules
- Prerequisite: JAZZ 2006B Jazz Improvisation II part 2
- Restriction: 8075 Improvisation III
- Assessment: ongoing (including original contemporary jazz composition) 25%, end of semester exams 75%

Further development of 'Standard' & 'Bop' material, in conjunction with Theory and third year Tunes List; modal styles: applications & exercises in pentatonics, altered pentatonics & fourths; solo development techniques, particularly application of tension/outside devices & methods; analysis of modal solos (eg Coltrane); contemporary jazz styles; contemporary & polychord harmonies; chord/scale relationships; rhythmic devices/techniques (eg cross-rhythms, metric modulation, etc); playing/improvising in unusual forms, time-signatures and harmonies.

JAZZ 3600A/B

Practical Study III: Jazz

- 6 units - full year
- 12 hours individual tuition over 24 wks, 1.5 hours performance class per week; 1.5 hours jazz performance forum per week, 1 hour supervised small jazz ensemble workshop per week/24 wks
- Eligibility: music degree students only - consult relevant Academic Program Rules
- Prerequisite: JAZZ 2006B Practical Study II: Jazz part 2
- Restriction: 7268 Performance IIIB (Jazz)
- Assessment: semester 1: 15 min mid-year assessment 20%, teacher's report 5%, ensemble laboratory 10%: semester 2: teacher's report 5%, 25 min prac. assessment 50%, ensemble laboratory 10% (end of year practical exam must be passed in order to pass course)

Technique and repertoire on an instrument or voice at levels appropriate to an individual student's attainments. All students must attend an individual lesson and a 1.5 hour performance class particular to their major study.

MUSCORE 3001

Music in Context III: Music since 1900

- 3 units - semester 1
- 1 hour lecture, 1 hour tutorial
- Assumed Knowledge: harmonic conventions and formal procedures of western music, including a knowledge of the harmonic idioms of late 19th century music
- Assessment: lecture series: 3000 word essay 60 %, tutorial series: short assignments 40%

Lectures: Historical and cultural studies of music since 1900, and the currents of thought, social and political changes, and technological developments that have shaped it. Tutorials: theoretical and analytical studies of the thematic, harmonic, stylistic, and formal aspects of music since 1900.

MUSCORE 3002

Music in Context IIIA: Jazz

- 3 units - semester 1
- 1 hour theory lecture, 1 hour tutorial, 1 hour jazz arranging lecture per week
- Eligibility: music degree students only - consult relevant Academic Program Rules
- Prerequisite: MUSCORE 2003 Music in Context IIA: Jazz, MUSCORE 2004 Music in Context IIB: Jazz
- Restriction: 4838 Jazz Theory III, 8075 Improvisation III
- Assessment: theory (weekly assignments & tests 25%, exam 75%) 50%; jazz arranging (small assignments 50%, major assignment 50%) 50%

Jazz Theory: extensive study of chords, scales and modes and their relationships; research of standard harmonic progression and standard tunes; advanced chord substitution and polytonality. Jazz arranging and composition: further development of jazz arranging techniques and skills for medium to large ensembles (eg Big Band).

MUSCORE 3003

Music in Context IIIB: Jazz

- 3 units - semester 2
- 1 hour theory lecture, 1 hour tutorial, 1 hour jazz arranging lecture per week
- Eligibility: music degree students only - consult relevant Academic Program Rules
- Prerequisite: MUSCORE 3002 Music in Context IIIA: Jazz
- Restriction: 4838 Jazz Theory III
- Assessment: theory: (weekly assignments, tests 25%, exam 75%) 50%; jazz arranging (small assignments 50%, major assignment 50%) 50%

Jazz Theory: Advanced level study of the tonal organisation and rhythmic structure of contemporary jazz. Topics include: Investigation and study/application of the 'Lydian Chromatic Concept' by George Russell; study of other techniques/systems such as 12 tone techniques, Eastern scales/techniques, and systems used by 20th century composers - Bartok, etc. Jazz arranging and composition: further development of jazz arranging techniques and skills for medium to large ensembles (eg Big Band) - submission of big band arrangement and compositions.

MUSCORE 3004

Music & Music Making in the Australian Context III

- 3 units - semester 2
- 1 hour lecture, 8 x 1.5 hour workshops
- Assessment: 3000 word essay 60%, tutorial presentation & project 40%

Lectures: the practice of music in Australian society, from traditional Aboriginal music, through popular and high art forms of transplanted Western culture, to the highly diverse musical culture of contemporary Australia. Tutorials: focus on career paths in music in Australia, and the acquisition of relevant career skills.

MUSED 3001

Music Education IIIA

- 3 units - semester 1
- 1 hour lecture, 2 hour workshop per week
- Eligibility: music degree students only - consult relevant Academic Program Rules
- Prerequisite: MUSED 2001/2002 Music Education IIA & IIB
- Restriction: 5364 Music Education III

- Assessment: brass methodology journal & practical demonstration 30%, essay 30%, curriculum assignments 40%

Brass instrument methodology involving learning about the brass family, gaining experience in writing for and playing brass instruments, and basic methodology. Classroom music curriculum studies - introduction to teaching principles, lesson planning, classroom management, and communication. Teaching strategies for junior secondary level (i.e. Years 8-10) music classes. Current curriculum documents. Psychological approaches to musical development and learning, including personality, motivation, creativity and social influences. An introduction to the application of technology in music education.

MUSED 3002
Music Education IIIB

- 3 units - semester 2
- 1 hour lecture, 2 hour workshop (may be taught in condensed format to accommodate Music Education Practicum III) per week
- Eligibility: music degree students only - consult relevant Academic Program Rules
- Prerequisite: Music Education IIIA
- Restriction: 5364 Music Education III
- Assessment: string methodology journal & practical demonstration 30%, seminar presentation 20%, curriculum assignments 50%

String instrument methodology involving learning about the orchestral string family, gaining experience in writing for and playing string instruments, and basic methodology. Teaching strategies for secondary school music classes, particularly for aural, theory and listening areas. Issues in Music Education research including theories of learning, musical ability, and perception, technology, assessment and evaluation. Research in instrumental instruction.

MUSED 3003A/B
Music Education Ensembles III

- 3 units - full year
- 2 hour ensemble (with Music Education Level II), 1 lecture per week
- Eligibility: music degree students only - consult relevant Academic Program Rules
- Restriction: 5364 Music Education III.
- Assessment: arranging exercises 20%, arrangement/s 60%, participation 20%

Participation in and direction of rehearsals and performances of the Music Education band and choir involving repertoire in a broad range of genres and styles. Instrumental and vocal ensemble rehearsal techniques. Advanced principles of arranging and composing music for ensembles.

MUSED 3004
Music Education Practicum III

- 3 units - semester 2
- Eligibility: music degree students only - consult relevant Academic Program Rules
- Prerequisite: MUSED 3001 Music Education IIIA
- Restriction: 5364 Music Education III

Students will undertake one placement of supervised teaching practice (equiv. to 20 days/4 weeks) in a school. Students who successfully complete the course are given a non-graded pass.

MUSST 3001
Approaches to Music III

- 3 units - semester 1
- 2 hour lecture/discussion, 1 hour workshop per week
- Eligibility: only available to students enrolled in a music degree - consult relevant Academic Program Rules
- Restriction: 6989 Ethnomusicology IIIA, 9189 Musicology IIIA
- Assessment: assignment 20%, 3000 word essay 60%, oral presentation of research 20%

Development of theory and techniques of music studies with detailed investigation of case studies. A theme such as Festivals may serve as the focus for the semester.

MUSST 3002
Advanced Music Seminar IIIA

- 3 units - semester 1
- 2 hour seminar
- Assessment: 4000 word essay or research/creative project equivalent appropriate to topic, seminar presentation

In-depth study of an area (or a comparative study of areas) of music history, culture, theory or practice (or combination of these). The topic offered for any given year will be advertised prior to enrolment. The topic for semester 1: Composing for film.

MUSST 3003
Advanced Music Seminar IIIB

- 3 units - semester 2
- 2 hour seminar
- Assessment: 4000 word essay or research/creative project equivalent appropriate to topic, seminar presentation

In-depth study of an area (or a comparative study of areas) of music history, culture, theory or practice (or combination of these). The topic offered for any given year will be advertised prior to enrolment.

The topic for semester 2: Aboriginal Music. A primary focus of the course will be the ceremonial songs and dances of Northeast Arnhem Land and other remote areas of Australia. The course will also consider Aboriginal popular music in urban and remote areas, the use of Aboriginal elements in work by non-Aboriginal composers, and relevant links between these different types of music.

MUSST 3005
Foundation for Honours III: Music Studies

- 3 units - semester 2
- 2 hour seminar
- Eligibility: restricted to students intending to take Honours
- Assessment: assignment appropriate to student's major area of interest 30%, 3000 word essay 60%, oral presentation of research 10%

Selected advanced topics in music studies that provide foundations for honours level work in specialised areas of music studies and research including composition, ethnomusicology, musicology, music education, music technology and performance.

MUSST 3010
Studies in Japanese Music III

- 3 units - semester 1
- 2 hour seminar per week
- Quota may apply
- Assumed Knowledge: music reading skills, advanced theory background
- Assessment: 3000 word essay 60%, oral presentation of research 20%, exam 0%

An overview of performance practice and music genres in Japan. Method and concepts for studying Japanese music in traditional and contemporary forms.

MUSST 3011
Pathfinders in American Music III

- 3 units - semester 2
- 2 hour seminar per week
- Quota may apply
- Assumed Knowledge: music reading skills, advanced theory background
- Assessment: 5000 word seminar paper

The study of two of the most original and free-thinking composers of any age or nationality: Charles Ives and John Cage. A study of the philosophers (Thoreau, Emerson), writers (Poe, Melville, Hawthorne), painters (Pollock, Rauschenberg).

MUSTECH 3001
Practical Study IIIA: Music Technology

- 3 units - semester 1
- 2 hours of seminars per week for 12 weeks
- Eligibility: music degree students only - consult relevant Academic Program Rules
- Prerequisite: audition
- Assessment: assignments/presentations 50%, major work 50%

Practice and theory of film sound; Compositional applications of procedural computer music programming.

MUSTECH 3002
Practical Study IIIB: Music Technology

- 3 units - semester 2
- 2 hours of seminars per week for 12 weeks
- Eligibility: music degree students only - consult relevant Academic Program Rules
- Prerequisite: audition
- Assessment: assignments/presentations 30%, major work 70%

Involves the design and execution of an individual or collaborative project consolidating and extending course concepts.

PERF 3003A/B
Stagecraft III

- 3 units - not offered in 2005
- 2 hour workshop per week, 1 hour movement class
- Prerequisite: PERF 2003A/B Stagecraft II
- Assessment: sem 1 - weekly log 30%, attendance & participation 20%; sem 2 - 1000 word essay 30%, participation in stagecraft productions 20%

Development of skills in presentation and stagecraft, movement, posture, gesture and acting, integration of movement skills with dramatic expression, characterisation and analysis.

PERF 3004A/B
Voice Practicum III

- 3 units - full year
- 3 hours per week
- Eligibility: music degree students only - consult relevant Academic Program Rules
- Prerequisite: PERF 2004B Voice Practicum II Part 2
- Restriction: 8434 German for Singers
- Assessment: repertoire 20%, language: class assignments 40%, final exam 40%

Repertoire class, language (German).

PERF 3010

Accompanying III

- 2 hour lecture/workshop per week
- Eligibility: music degree students only - consult relevant Academic Program Rules
- Quota may apply
- Prerequisite: PERF 2001B Accompanying II part 2
- Assessment: one practical assessment, one written assignment

Investigation of the nature of the pianist's role as accompanist, associate artist, chamber musician and rehearsal pianist. Further development of ensemble skills, rehearsal techniques and management of the rehearsal process.

PERF 3500A/B

Classical Performance III

- Specialisations are available in: Brass, Keyboard, Percussion, Strings, Voice and Woodwind
- 9 units - full year
- 1 hour indiv. tuition per wk/30 wks; Classical Performance Forum 1.5 hours per wk/24 wks; technique/repertoire class, organised on instrumental/ vocal specialisation, 1.5 hours per wk/24 wks
- Eligibility: music degree students only - consult relevant Academic Program Rules
- Prerequisite: PERF 2500B Classical Performance II Part 2 at Pass 1 level or above in the relevant instrument
- Assessment: sem 1: 30 min. technique assessment or equiv. 40%, ; sem 2: 45 min end of year prac. exam 60% (end of year exam must be passed in order to pass course)

Through the study of appropriate technical and recital literature, students develop advanced technical skills together with a sound understanding of interpretative principles. They are expected to perform their chosen repertoire with accuracy and fluency, displaying rhythmic control together with a well-developed expressive sense. They need to demonstrate a strong conceptual understanding of the works performed together with an ability to communicate with their audience.

Subject to special audition and interview and to the availability of suitably qualified teachers, selected students will be permitted to specialise in the area of orchestral studies. This will include a focus upon orchestral excerpts and audition material (including concerti). Individual contracts, incorporating content and assessment, will be developed for each student.

PERF 3600A/B

Practical Study III: Performance

- Specialisations are available in: Brass, Keyboard, Percussion, Strings, Voice and Woodwind
- 6 units - full year
- 12 hours indiv. tuition over 24 weeks; Classical Performance Forum 1.5 hours per week/24 weeks; technique/repertoire class, organised according to instrumental/ vocal specialisation, 1.5 hours per week/24 weeks
- Eligibility: music degree students only - consult relevant Academic Program Rules
- Prerequisite: PERF 2600B Practical Study II: Performance part 2
- Restriction: any Level III Performance course worth 6 units
- Assessment: sem 1 - teacher assessment 5%, 15 min practical assessment 35%; sem 2 - teacher assessment 5%, 25 min practical assessment 55% (end of year exam must be passed in order to pass course)

Technique and repertoire on an instrument or voice at levels appropriate to an individual student's attainments.

Level IV

MUSED 4001A/B

Music Education IV

- 3 units - full year
- 2 hours/week workshop (totalling 24 hours per year to be scheduled around the blocks of teaching practice in semester 1 & 2)
- Eligibility: music degree students only - consult relevant Academic Program Rules
- Prerequisite: Music Education IIIB
- Assessment: curriculum assignment/s 60%, project 40%

Classroom music curriculum studies for senior secondary level (Years 11 and 12), including SACE and VET music studies. Issues in music education literature including curriculum and methods in use in Australia, the UK and the USA. Philosophies of music education, including Reimer and Elliott. Current developments in arts education policies.

Honours

ETHNO 4003

Honours Ethnomusicology (B.Mus.)

- 24 units -full year
- Eligibility: approved honours music students only
- Prerequisite: see Program Rule 6.5
- Assessment: 5000 word research seminar paper 20%, 30 min. oral presentation 5%, negotiated project- variety of assessments by negotiation with supervisor & Honours Coordinator 25%, 10,000 word thesis 50%

A program of seminars and individual supervision in the theory and practice of ethnomusicology. Students will complete: 1.Research Seminar (6 units): theory and methods of ethnomusicology including major concepts, research issues, transcription and

editing, analysis, case studies. 2. Negotiated Project (6 units): an activity that complements major study e.g. editing, professional activity (such as affiliation with a professional society), fieldwork, a research project, a recording project, performance project or component from another Music Honours program. 3.Major research project (12 units) - topic of choice as approved by Honours Coordinator.

MUSCOMP 4010

Honours Composition

- 24 units - full year
- Eligibility: approved honours music students only
- Prerequisite: see Program Rule 6.5
- Assessment: a variety of assessment modes, depending on the choice of topics /components

A program of seminars and individual tuition in composition and analysis of music, with studies in electronic or computer music in appropriate cases. Candidates will be required to submit a major work, or group of works, the general nature of which has been approved in advance by the candidate's supervisor. Compositions: at least 12 units. Research paper or analysis: at least 6 units; in approved cases, students may take 6 or more units from a course/component of another Music honours course.

MUSICED 4006

Honours Music Education

- 24 units - full year
- Eligibility: approved honours music students only
- Prerequisite: see Program Rule 6.6
- Assessment: 2 x 3000 word seminar papers (3 units each), 6000 word minor project (6 units), 6000 word dissertation or equiv. (12 units)

A program of seminars and individual tuition. Students will complete individual research assignments and a balanced proportion of related fieldwork. Subject to audition, a minor recital of 35 minutes may be presented in lieu of a minor project.

MUSICOL 4011

Honours Musicology (B.Mus.)

- 24 units - full year
- Eligibility: approved honours music students only
- Prerequisite: see Program Rule 6.5
- Assumed Knowledge: reading knowledge of language/s necessary for the program of study
- Assessment: 5000 word research seminar paper 20%, 30 min. oral presentation 5%, negotiated project - variety of assessments by negotiation with supervisor and Honours Coordinator 25%, 10000 word thesis 50%

A program of seminars and individual supervision in the theory and practice of musicology. Students will complete: 1.Research Seminar (6 units): theory and methods of musicology including major concepts, research issues, transcription and editing, analysis, contemporary and historical studies. 2. Negotiated Project (6 units): an activity that complements major study e.g. editing, professional activity (such as affiliation with a professional society), music criticism, a research project, a recording project, performance project or component from another Music Honours program. 3. Major research project (12 units): topic of choice as approved by Honours Coordinator.

MUSTECH 4001

Honours Music Technology

- 24 units - full year
- Eligibility: approved honours music students only
- Prerequisite: see Program Rule 6.5
- Assessment: a variety of assessment modes, depending on the choice of topics. Composition or creative work may be submitted on CD or DVD, through live performance or installation.

A program of seminars and individual supervision in the theory and practice of music technology. Students will complete individual research projects in areas that may include software development, practical applications of audio theory, algorithmic composition, or media integration. Major research project (which may include dissertation, research reports, software documentation, or other approved forms of submission relevant to the research): at least 12 units; composition or creative work: at least 6 units; in approved cases, students may take 6 units or more from a course/component of another Music Honours program.

PERF 4005

Honours Performance

- 24 units - full year
- 30 hours individual tuition in performance (1 hour per wk/30 wks) supported by fortnightly performance workshops of 1.5 hours duration - both provide emphasis on style and interpretation
- Eligibility: approved honours music students only
- Prerequisite: see Program Rule 6.4
- Assessment: Recital assessments in form of public recitals, negotiated projects assessed as satisfactory/unsatisfactory - all components must be passed in order to pass the course

The course consists of a number of topics : Recital 1 (12 units) (65 minute recital)- content and format will not be prescribed as the repertoire may include solo works, chamber music, orchestral material, concerti, accompaniment etc. Recital programs will be subject to approval. Recital 2 (6 units) (35 minute recital) - content and format will not be prescribed as the repertoire may consist of solo works, chamber music, orchestral material, concerti, accompaniment etc. Recital programs will be subject to approval.

Negotiated Project (6 units or 2x3 units) – this is intended to allow for a variety of activities, including (but not limited to) ensemble work (small or large), professional activity (such as ASO), research project, concerto, recording project, involvement in some form of stage production or a course/component from another Music Honours program.

PERF 4006
Honours Music Pedagogy

- 24 units - full year
- Eligibility: approved honours music students only
- Prerequisite: see Program Rule 6.4
- Assumed Knowledge: GENMUS 2003/GENMUS 3004 or equiv.
- Assessment: 2 x 20 min seminar presentations/demonstrations 25%, 1 x 6000 word or 2 x 3000 word projects 25%, 12,000 word thesis 50%

A program of seminars, individual supervisions and workshops with a focus on the teaching, learning and related processes involved in piano or stringed instrument performance practice. Fieldwork is likely to include involvement in instrumental teaching programs on and off campus.

Music - VET

Level I

VETMUS 1501
Music Industry and Business Management

- 1 unit - semester 2
- 6 hours of lectures
- Eligibility: : VET music students only - consult relevant Academic Program Rules
- Assessment: regular short tests concerned with knowledge & understanding of essential elements

Matters concerned with the music industry, its organisations, products and issues relevant to working in the industry will be explored. Students will be encouraged to strategically monitor their participation in relevant music and other networks. Copyright requirements to protect creative work and performance from unauthorised use will be investigated.

VETMUS 1502
Occupational Health & Safety

- 1 unit - semester 1
- 6 hours of workshops
- Eligibility: VET music students only - consult relevant Academic Program Rules
- Assessment: regular short tests concerned with knowledge & understanding of essential elements

Occupational health and safety, emergency situations and personal safety in the music industry will be examined and evaluated. Students will develop essential knowledge and skills in established procedures and understanding of legal requirements.

VETMUS 1503
Assignment Writing and Research Skills

- 1 unit - semester 1
- 5 x 1 hour workshops
- Eligibility: VET music students only - consult relevant Academic Program Rules
- Assessment: assignment 70%, library skills workbook 30%, study skills

Identification, location and use of a wide variety of research instruments in both electronic and non-electronic systems will be investigated. Effective application of this research, its notation and acknowledgment will also be examined.

VETMUS 1504A/B
Career Management

- 2 units - full year
- 6 x 1 hour workshops per semester
- Eligibility: VET music students only - consult relevant Academic Program Rules
- Assessment: regular short tests concerned with knowledge & understanding of essential elements

Image development, planning promotional activities, communicating strategically to achieve planned commercial outcomes and the development and expansion of artistic product will be explored. Students will be encouraged to strategically monitor their participation in relevant music and other networks.

VETMUS1505
Copyright Law

- 1 unit - semester 2
- 6 x 1 hour workshops
- Eligibility: VET music students only - consult relevant Academic Program Rules
- Assessment: regular short tests concerned with knowledge & understanding of essential elements

The skills and knowledge required to protect creative work and performance from unauthorised use are examined and evaluated. Students will develop essential knowledge and skills in established procedures and understanding of legal requirements.

VETMUS 1601A/B
History & Literature

- 2 units - full year
- 1 hour lecture per week
- Eligibility: VET music students only - consult relevant Academic Program Rules
- Assessment: assignments 70%, exam 30%

Students will increase their understanding of the general trends in the evolution of western music, the major styles, composers and works of the standard musical eras, and the basic analysis techniques which can be applied to this field of study.

VETMUS 1602A/B
Aural development (VET)

- 2 units - full year
- 1 hour class per week
- Eligibility: VET music students only - consult relevant Academic Program Rules
- Assessment: as required by stream/level

Students will be allocated to an appropriate stream based on a placement test. Development of skills in identifying and notating melodic, harmonic and rhythmic units; development of critical listening skills through study of basic musical elements such as texture, timbre, articulation, dynamics, form, and structure. This part of the course is divided into five progressive streams for varying skill levels and areas of particular development.

VETMUS 1603A/B
Theoretical Studies

- 2 units - full year
- 1 hour class per week
- Eligibility: VET music students only - consult relevant Academic Program Rules
- Assessment: assignments 50%, exams 50%

This course develops an understanding of the fundamental principles of music theory, and their application in contemporary music. Areas covered include scales, chord structure, modern functional harmony, and contemporary production values.

VETMUS 1605A/B
Ensemble (C4)

- 2 units - full year
- 2 hours rehearsal per week
- Eligibility: VET music students only - consult relevant Academic Program Rules
- Assessment: regular performances in an appropriate ensemble

Students will increase their effectiveness as members of an instrumental group by developing musically interactive skills, empathy, diagnostic and evaluative ability through regular performance in a small or large ensemble at an appropriate level.

VETMUS 1606A/B
History of Commercial Music

- 2 units - full year
- 1 hour class per week
- Eligibility: VET music students only - consult relevant Academic Program Rules
- Assessment: assignments 70%, exam 30%

The history and development of jazz, rock and other forms of popular music are studied in order to develop of understanding of the various styles and artists who have significantly contributed to the evolution of commercial music. The development of research skills is emphasised.

VETMUS 1607A/B
History of 20th century music

- 2 units - full year
- 1 hour lecture per week
- Eligibility: VET music students only - consult relevant Academic Program Rules
- Assessment: 1 presentation 20%, 2 exams 80%

Students will expand their knowledge and understanding of 20th century western art music. Significant developments in music language styles, noteworthy composers and their works will be investigated and students will gain facility in researching, evaluating and writing about these developments.

VETMUS 1608A/B
Theory of Music

- 2 units - full year
- 1 hour class per week
- Eligibility: VET music students only - consult relevant Academic Program Rules
- Assessment: assignments 50%, exams 50%

Students will develop an understanding of the fundamental principles of music theory, particularly with regard to functional harmony, music notation, harmonic and melodic construction and learn to view these historically.

VETMUS 1609A/B
Individual Tuition (C4)

- 4 units - full year
- 24 hours of hour individual tuition per year
- Eligibility: VET music students only - consult relevant Academic Program Rules
- Assessment: mid year examination 30%, end of year exam 60%, teacher's report 2 x 5%

Students will develop to appropriate levels on an instrument or voice their technical skill, scope of repertoire, stylistic awareness and interpretive ability.

VETMUS 1610A/B
Individual Tuition (C3)

- 3 units - full year
- 24 hours of individual tuition per year
- Eligibility: VET music students only - consult relevant Academic Program Rules
- Assessment: sem 1: teacher's report 5%; sem 2: end of year exam 90%, teacher's report 5%

Students will develop to appropriate levels on an instrument or voice their technical skill, scope of repertoire, stylistic awareness and interpretive ability. There will be a 10 minute mid year practical presentation to provide feedback.

VETMUS 1611A/B
Aural development (C3)

- 2 units - full year
- 1 hour class per week
- Eligibility: VET music students only - consult relevant Academic Program Rules
- Assessment: 4 exams

Students will develop secure basic knowledge, understanding and critical listening skills in the construction, notation and constituent elements of elementary level instrumental music and song.

VETMUS 1612A/B
Ensemble (C3)

- 2 units - full year
- 2 hours rehearsal per week
- Eligibility: VET music students only - consult relevant Academic Program Rules
- Assessment: regular performances in an appropriate ensemble

Students will increase their effectiveness as members of an instrumental group by developing musically interactive skills, empathy, diagnostic and evaluative ability through regular performance in a small or large ensemble at an appropriate level.

VETMUS 1613A/B
Theory of Music (C3)

- 2 units - full year
- 1 hour class per week
- Eligibility: VET music students only - consult relevant Academic Program Rules
- Assessment: exams 50%; assignments 50%

Students will develop secure basic knowledge, understanding and written skills in elementary level music theory and song writing in various genres.

VETMUS 1614A/B
Aural Development (Dip)

- 2 units - full year
- 1 hour tutorial per week
- Eligibility: VET music students only - consult relevant Academic Program Rules
- Assessment: aural - as required for stream/level 30%, choir - demonstration of individual sight singing ability & involvement in one performance per semester 30%, lecture - one hour exam 40%

Aural: Development of skills in identifying and notating melodic, harmonic and rhythmic units; development of critical listening skills through study of basic musical elements such as texture, timbre, articulation, dynamics, form, and structure. This part of the course is divided into five progressive streams for varying skill levels and areas of particular development. Beginning students will be allocated their stream on the basis of a placement test. (Continues aural instruction from semester 1 courses).

Choir: Development of aural skills through choral singing, emphasis on sight-reading, aural development and vocal skills.

Lecture: introductory survey of analytical and culture-based approaches to understanding music in its cultural context. Musical examples drawn from Western and Non-Western cultures.

VETMUS 1701A/B
Jazz Styles 1

- 3units - full year
- 1 hour lecture per week
- Eligibility: VET music students only - consult relevant Academic Program Rules
- Assessment: ongoing assignments 50%, listening exams 50%

A broad study, analysis and application of the various styles of jazz, ranging from early New Orleans to Contemporary.

VETMUS 1702A/B

Jazz Theory 1

- 2 units - full year
- 1 hour lecture per week
- Eligibility: VET music students only - consult relevant Academic Program Rules
- Assessment: 2 written exams 50%, research project 25%, presentations 25%

This course aims to provide a theoretical framework which students can apply within jazz improvisation, composition and arranging. It considers the nomenclature of chords, functional harmony and the study of advanced harmony, aural aspects, jazz rhythms and phrasing. All theoretical aspects are followed by practical applications.

VETMUS 1703A/B

Jazz Piano Class 1

- 2 units - full year
- 1 hour per week
- Eligibility: VET music students only - consult relevant Academic Program Rules
- Corequisite: Jazz Theory 1
- Assessment: assignments, projects, exercises 25%, written & practical semester exams 75%.

This course aims to provide sufficient stylistic knowledge and technique to allow the student to use keyboard as a means of relating to other courses (eg, Theory, Arranging, Performance).

VETMUS 1704A/B

Jazz Performance 1

- 4 units - full year
- 24 hours of individual tuition per year
- Eligibility: VET music students only - consult relevant Academic Program Rules
- Attendance at Jazz Forum and relevant performance class
- Assessment: mid-year exam 30%, end of year exam 60%, teacher's report 2 x 5%

Students will develop to appropriate levels on an instrument or voice their technical skill, scope of repertoire, stylistic awareness and interpretive ability.

VETMUS 1705A/B

Improvisation 1

- 3 units - full year
- 1 hour lecture, 1 hour tutorial, 1 hour Applied Rhythm Class per week
- Eligibility: VET music students only - consult relevant Academic Program Rules
- Assessment: assignments, participation in class, written and practical exams: Improvisation 80%, Rhythm 20%

This course enables students to develop and apply improvisation techniques. It considers the application of basic jazz improvisational techniques such as rhythm, modal scales and patterns to jazz repertoire.

VETMUS 1707A/B

Small Ensemble 1

- 2 units - full year
- 3 hours rehearsal per week (1 hour supervised)
- Eligibility: VET music students only - consult relevant Academic Program Rules
- Assessment: exams (30 min. playing time) 50%, continuous assessment 50% - students will also attend Jazz Forum & perform at least twice a semester at the Forum

Students will gain ensemble experience and sensitivity by developing musically interactive skills, empathy, improvisation, through a regular rehearsal and performance schedule of various styles of jazz.

VETMUS 1708A/B

Jazz Masterclass

- 2 units - full year
- 1 hour tutorial per week
- Eligibility: VET music students only - consult relevant Academic Program Rules
- Assessment: ongoing exercises/assignments and performances

Jazz Instrumental or Vocal Masterclass for each specialisation provides technical and stylistic support for the major study (instrument or voice). Discussions, demonstrations and performances will be used to inform on specific issues of the major study.

VETMUS 1709A/B

Jazz Forum

- 1 unit - full year
- 1.5 hours workshop per week
- Eligibility: VET music students only - consult relevant Academic Program Rules
- Assessment: attendance, participation, written comments by students

This course provides listening, performing and critical analysis experience for small jazz ensembles (typically 2-7 players). All students enrolled in Small Jazz Ensemble courses will perform several times each year at Jazz Forum, and in addition be called

upon for comments within discussion sessions, regarding the performances of ensembles.

VETMUS 1750A/B
Individual Tuition (Dip)

- 4 units - full year
- 24 hours individual tuition
- Eligibility: VET music students only - consult relevant Academic Program Rules
- Assessment: sem 1: teacher assessment 5%, 15 min. practical exam 30%; sem 2: teacher assessment 5%, 20 min. practical exam 60%

Students will develop their technical skill, scope of repertoire, stylistic awareness and interpretive ability to appropriate levels on an instrument or voice.

VETMUS 1751A/B
Small Ensemble (Dip)

- 3 units - full year
- 3 hours rehearsal per week (1.5 hours supervised)
- Eligibility: VET music students only - consult relevant Academic Program Rules
- Corequisite: Ensemble and Sound Production must be taken concurrently.
- Assessment: two exams (30 min. playing time) 50%; continuous assessment 50% - students will also attend Jazz Forum and perform there once in semester

Students will gain ensemble experience and sensitivity by developing musically interactive skill, empathy, and improvisation expertise through a regular rehearsal and performance schedule of various styles of jazz.

VETMUS1752A/B
Jazz Diploma Workshop

- 4 units - full year
- 2 hour workshop, 1 hour rhythm class per week
- Eligibility: VET music students only - consult relevant Academic Program Rules
- Assessment: weekly class exercises & participation 40%, written & practical exam at end of each semester 40%, rhythm class exam & participation 20%

Students will study and practically apply improvisational concepts, including rhythmic and motivic improvisation, understanding chord progressions, applying scales to chord progressions, and constructing an improvised solo.

VETMUS 1753A/B
Jazz Diploma Forum

- 1 unit - full year
- 1.5 hours jazz performance forum per week
- Eligibility: VET music students only - consult relevant Academic Program Rules
- Assessment: attendance, participation, written comments by students

The course provides listening, performing and critical analysis experience for small jazz ensembles (typically 2-7 players). All students enrolled in Small Jazz Ensemble will perform once each semester in Jazz Forum, and in addition will be called upon for comments within discussion sessions regarding the performances of ensembles.

VETMUS1754A/B
Jazz Accompaniment

- 2 units - full year
- 1 hour tutorial per week
- Eligibility: VET music students only - consult relevant Academic Program Rules
- Assessment: weekly class exercises & participation 50%, practical exam at end of each semester 50%.

Students will study jazz rhythm section instruments including basic piano skills in chord voicing and accompaniment and basic skills on the drum kit playing a variety of styles and rhythmic patterns. Students will develop knowledge of jazz accompaniment through listening and discussion, and will practically apply their learning through opportunities to act as accompanists in ensembles on both keyboard and drum kit.

VETMUS 1755
Sound Production A

- 2 units - semester 1
- 2 hours workshops per week
- Eligibility: VET music students only - consult relevant Academic Program Rules
- Corequisite: Ensemble and Sound Production must be taken concurrently.
- Assessment: Theoretical exams 30%, Practical exams 70%

Students will develop the skills and knowledge required to operate a sound reinforcement system for a production in the cultural industries, the technical, communication and leadership competencies required to plan and manage technical production for a music recording.and the skills and knowledge required to record sound, using a variety of digital and analogue recording equipment in a studio or on location for a production in the cultural industries.

VETMUS 1756

Sound Production B

- 2 units - semester 2
- 2 hours workshops per week
- Eligibility: VET music students only - consult relevant Academic Program Rules
- Corequisite: Ensemble and Sound Production must be taken concurrently.
- Assessment: Theoretical exams 30%, Practical exams 70%

Students will develop the skills and knowledge required to operate a sound reinforcement system for a production in the cultural industries, the technical, communication and leadership competencies required to plan and manage technical production for a music recording.and the skills and knowledge required to record sound, using a variety of digital and analogue recording equipment in a studio or on location for a production in the cultural industries.

VETMUS 1801A/B

Composition Class

- 2 units - full year
- 1.5 hours class per week
- Eligibility: VET music students only - consult relevant Academic Program Rules
- Assessment: serial composition (written, performed & recorded) 40%, composition in 20th century style (written, performed & recorded) 40%, contribution to class, attendance 20%

Practical skills in composing works relevant to 20th Century musical thinking and hands-on familiarity with compositional techniques associated with this thinking will be developed.

VETMUS 1802A/B

Keyboard Musicianship (Majors)

- 2 units - full year
- 1 hour class per week
- Eligibility: VET music students only - consult relevant Academic Program Rules
- Assessment: 2 exams 60%, regular performance of set exercises, studies and pieces 40%

Students will expand their skills and knowledge in applied harmony, keyboard musicianship (sight reading, reading from chord symbols, transposition, score reading), keyboard technique and stylistic performance practice.

VETMUS 1804A/B

Performance Class

- 2 units - full year
- 1.5 hours class per week
- Eligibility: VET music students only - consult relevant Academic Program Rules
- Assessment: regular performances in class

The knowledge, critical evaluation and communication skills of participants will be extended in the context of a broadly based performance forum.

VETMUS 1807A/B

Technique & Repertoire Class

- 3 units - full year
- 1.5 hours class per week
- Eligibility: VET music students only - consult relevant Academic Program Rules
- Assessment: regular performances in class

Technical accuracy, stylistic fidelity and interpretive ability will be developed in the context of a performance forum with a specialist focus.

VETMUS 1808A/B

Keyboard Musicianship (Minors)

- 2 units - full year
- 1 hour class per week
- Eligibility: VET music students only - consult relevant Academic Program Rules
- Assessment: exam at end of each semester

Students will expand their skills and knowledge in applied harmony, keyboard musicianship (sight reading, reading from chord symbols, transposition, score reading), keyboard technique and stylistic performance practice.

VETMUS 1904A/B

Recital

- 1 unit - full year
- 12 hours contact
- Eligibility: VET music students only - consult relevant Academic Program Rules
- Assessment: technical and creative assessments

Students, either individually or in groups, will experience the demands of preparing and presenting a public recital, installation or exhibition of their composition or performance projects. This will include performing a recital duty and preparing a musical work.

VETMUS 1907A/B

Digital audio studies (C4)

- 4 units - full year
- 2 hours per week
- Eligibility: VET music students only - consult relevant Academic Program Rules
- Assessment: technical and creative assignments

Students will study music software for digital audio sequencing, editing, processing and mixing with a practical emphasis. Students will gain technical knowledge whilst achieving creative outcomes. Other areas examined include recording, tracking, mixing, post-production, mastering, looping and sound-design. Software includes Cubabase, Pro Tools and Live.

VETMUS 1908

Music technology (C4)

- 1 unit - semester 1
- 1 hour per week
- Eligibility: VET music students only - consult relevant Academic Program Rules
- Assessment: exams

Students will study the theoretical concepts behind the key areas of music technology. This will include sound theory, analogue and digital audio, midi signal processing/effects and synthesis. Students will gain a theoretical perspective on the technology that they use to make music thereby enhancing use of those technologies.

VETMUS 1909A/B

Midi Studies (C4)

- 3 units - full year
- 1 hour class per week
- Eligibility: VET music students only - consult relevant Academic Program Rules
- Assessment: technical and creative assignments

Students will study music software for MIDI sequencing and editing with a practical emphasis. Students will gain technical knowledge whilst achieving creative outcomes. Areas examined include the MIDI protocol, software and hardware implementation, virtual instrumentation, MIDI scoring and performance and advanced techniques. Software includes Cubabase and Reason.

VETMUS 1910A/B

Technology Journal (C4

- 2 units - full year
- 5 hours per semester
- Eligibility: VET music students only - consult relevant Academic Program Rules
- Assessment: research assignments

Students will examine an area of music technology of their own choosing from a practical and theoretical perspective. Students will increase specialised knowledge in an area of music technology that interests them. Areas that may be examined include live sound reinforcement, recording, mixing, effects, synthesis, mastering, film sound, computer music, software programming, live performance technology, MIDI, digital audio, analogue audio or musical electronics.

Obstetrics & Gynaecology

Level III

OB&GYNAE 3000

Human Reproductive Health IIIHS

- 6 units - semester 2
- 3 hours problem based learning workshops per week
- Eligibility: B.Health Sc, B.Psych.(Hons.) students only
- Prerequisite: ANAT SC 1102A/1102B Human Biology I, PATHOL 2000 Biology of Disease
- Assessment: reports 60%, peer assessment of contribution to problem based learning 10%, exam 30%

The population of Homosapiens is increasing annually by more than 60 million. Fertility is progressively declining. This course aims to introduce students to the social, medical, scientific, moral and ethical issues associated with human reproduction and its regulation. Students will be expected to gain sufficient understanding of the biology of human reproduction to critically evaluate past, present and emerging methods of investigation and management of reproductive function. The topic will be introduced through studies of human population dynamics and the contribution of developmental biology to adult health. This will be followed by examination of the biology and pathology of fertilisation, implantation, pregnancy, fetal growth and developmental programming of adult metabolic control. The course concludes with studies of the effects of reproductive hormones on behaviour.

Honours

OB&GYNAE 4000HO

Honours Obstetrics and Gynaecology

- 24 units - full year
- Eligibility: appropriately qualified B.Hlth.Sc, B.Med.Sc, B.Sc students or permission of Head of Department
- Assessment: to be advised at start of year; includes literature review, research seminars and thesis

Students requiring further information concerning syllabuses and work required for the Honours degree are advised to consult the

Head of Department as early as possible. Potential projects are listed on the departmental web site.

Oenology

Level I

OENOLOGY 1000EX

OENOLOGY 1000NW

Introductory Grape and Wine Knowledge

- 3 units - semester 1
- Internal: 2 lectures, 3 hours tutorial/practical per week, some practical components may be held in mid semester break
- External: 4 day residential school during mid semester break
- Eligibility: B.Wine Marketing students OENOLOGY 1000NW, Diploma students OENOLOGY 1000EX
- Assessment: semester written exams, practical tests

Grapevine morphology, growth and development; grape berry development; changes in grape berry composition during ripening; physiology of smell and taste; basic winemaking principles. Practical exercises sessions designed to train student's palate in wine sensory evaluation and to differentiate between Australian wine types and styles.

OENOLOGY 1001EX

OENOLOGY 1001NW

Vineyard and Winery Operations I

- 3 units - semester 2
- Internal: 2 lectures, 3 hours tutorials/practicals per week), some practical componenets maybe held during mid semester break
- External: 5 day residential school
- Eligibility: B.Wine Marketing students OENOLOGY 1001NW, Diploma students OENOLOGY 1001EX
- Prerequisite: OENOLOGY 1000WT/1000NW/1000EX Introductory Grape and Wine Knowledge
- Assessment: semester written exams, practical tests

Climatic requirements for grapevines; vineyard design, establishment and operations including pruning, irrigation, canopy management, soil management and pest and disease management; characteristics of major white wine grape varieties; principles and practices of white and sparkling wine production; major white wine styles of the world; oak in winemaking.

Practical sessions relate to lecture topics and include viticulture exercises and wine sensory evaluation.

OENOLOGY 1018NW

Foundations of Wine Science

- 3 units - semester 1
- Eligibility: B.Sc. (Viticulture), B.Oenology students only
- Assessment: written exam and practical exam

Grapevine morphology, growth and development; grape berry development; changes in grape berry composition during ripening; physiology of smell and taste; basic winemaking principles. Practical exercise sessions designed to train student's palate in wine sensory evaluation and to differentiate between Australian wine types and styles. This course shares lectures and practicals with Introductory Grape and Wine Knowledge (OENOLOGY 1000NW) Extra material and supplementary tutorials are provided for Viticulture and Oenology students covering some aspects in greater scientific depth.

OENOLOGY 2004EX

OENOLOGY 2004NW

Vineyard and Winery Operations II

- 4 units - semester 1
- Internal: 2 lectures, 3 hours tutorial/practical equiv. per week, some practical components may be held in mid semester break
- External: 4 day residential school during mid semester break
- Eligibility: B.Wine Marketing students OENOLOGY 2004NW, Diploma students OENOLOGY 2004EX
- Prerequisite: OENOLOGY 1001NW/1001BO/1001EX Vineyard and Winery Operations I
- Assessment: semester written exams, practical tests and reports

Characteristics of major red wine grape varieties; principles and practices of red wine production; major red wine styles of the world; techniques for grapevine improvement and biotechnology, as applied to the wine industry; wine packaging, bottling operations and quality standards; sensory science. Practical sessions relate to lecture topics and will include tasting sessions.

OENOLOGY 2018EX

OENOLOGY 2018WT

Fortified Wines, Spirits and Non-Grape Beverages

- 4 units - semester 2
- Internal: 2 lectures, 3 hours tutorial/practical equiv. per week, some practical components may be held in mid semester break
- External: 5 day residential school during mid semester break
- Eligibility: B.Wine Marketing students OENOLGY 2018NW, Diploma students OENOLGY 2018EX

- Prerequisite: OENOLOGY 2000WT/2000BNW/2000EX/ 2004NW/ 2004EX Vineyard and Winery Operations II (A)
- Assessment: written exams, practical tests

Production of Australian, Spanish and Portuguese fortified wines; grape spirit and brandy productions; production of other distilled beverages; production of beer. Practical sessions relate to lecture topics and will include tasting sessions.

OENOLOGY 2022WA

OENOLOGY 2022WT

Sensory Studies

- 4 units - semester 2
- 2 lectures, 4 hours practical a week
- Assumed knowledge: Biology I: Organisms; Biology I: Molecules, Genes and Cells; Foundations of Wine Science
- Assessment: written & practical exams, written exercises

This course provides a scientifically based introduction to sensory evaluation and its relationship to the winemaking process, and promotes the development of technically accurate wine assessment skills. The physiology of taste receptors, olfaction and the structure of oral mucosa are examined. Recent advances in knowledge including the function of signal transduction molecules and protein structure are used to explain current models of flavour, astringency and taste perception. Basic flavour chemistry of grapes and wine is introduced. An introduction to sensory measurement theory, psychophysics, aroma and taste interactions, threshold measurement and the psychological and physiological factors affecting perception is presented. The concept of adaptation and its application to the sensory evaluation of wines, and elements of good sensory practice including data collection and statistical analysis are described. The practical program will be used to develop basic skills in sensory assessment of wines leading to the interpretation of wine characteristics in terms of wine style and quality. This is achieved by a progressive development of sensory skills, using model solutions to depict basic tastes and their interactions, followed by detailed examination of white and red table, fortified and sparkling wines.

OENOLOGY 2024WA

OENOLOGY 2024WT

Introductory Winemaking

- 4 units - semester 2
- 2 lectures, 4 hours practicals a week
- Prerequisite: either CHEM 1001A/B Chemistry I ANR or CHEM 1101 Foundations of Chemistry A and CHEM 1201 Foundations of Chemistry B or either CHEM 1000A/B Chemistry I or CHEM 1100 Chemistry IA and CHEM 1200 Chemistry IB
- Assessment: practical reports, written assignments, written exam

Introduction to the Australian wine industry. Chemistry and unit processes of winemaking. Production of table wines, including dry floral fruity white, full bodied white, sweet white, rose, medium and full bodied red and sparkling wines.

OENOLOGY 2025WT

Microbiology for Viticulture and Oenology

- 4 units - semester 1
- 3 lectures, 4 hours of practical/tutorial per week
- Assumed knowledge: Biology I: Organisms; Biology 1: Molecules, Genes and Cells; Cell Biology and Genetics; Biology or Plants and Animals
- Assessment: written exam (mid-year & final) 60%, 3 practical exercises 25%, practical exams (theory & practice) 15%

An introduction to the biology of microorganisms and invertebrates of importance in agriculture, viticulture, oenology and natural ecosystems. Topics to be considered include: microbial growth, energy sources and nutritional categories; form and function of major groups of microorganisms; classification and identification; beneficial and deleterious activities of microorganisms; features of saprophytic, pathogenic, symbiotic and commensal lifestyles; determinants of pathogenicity and resistance; interactions of microorganisms and environment; nature, occurrence and influence or application of fungi, yeast and bacteria in viticulture and oenology, practical skills for manipulating microorganisms and invertebrates and studying their activities.

Level III

OENOLOGY 3001WT

Research Project: Oenology

- 3 units - semester 1 or 2
- 10 hours a week for 1 semester or equivalent on project
- Assessment: literature review, research proposal, seminar

The course comprises a small research project to be undertaken during the 4th year of the course under the supervision of a staff member in the Discipline. Students wishing to undertake a research project should consult the Course Coordinator before the beginning of the 4th year.

OENOLOGY 3003WA

OENOLOGY 3003WT

Wine Packaging and Quality Management

- 3 units - semester 2
- 2 lectures, 4 hours practicals/field trips per week
- Prerequisite: OENOLOGY 3007WT Stabilisation and Clarification, OENOLOGY 3011WT Winemaking
- Assessment: practicals, reports, written assignments, & exams

Science and technology of bottling and packaging systems including chemical and physical properties of packaging materials, principles of filling machinery, design and process control of wine filling/packaging systems.

Wine and food laws and commercial forces as quality standards. Taints and residues in grapes and wine as quality issues. Approaches and systems of quality management using the wine industry as a focus, including the development of corporate quality cultures, standards and specifications, measurement for quality assurance, process and performance analysis methods, quality accreditation. Visits will be made to commercial plants.

OENOLOGY 3007WA

OENOLOGY 3007WT
Stabilisation and Clarification

- 3 units - semester 1
- 2 lectures, 4 hours practicals a week
- Prerequisite: OENOLOGY 2024WT Introductory Winemaking
- Assessment: practicals, reports, written assignments, exam

Principles and practices of wine clarification and stabilisation. Protein, tartrate, metal, colour oxidative, and microbiological stability and stability testing of wine. Wine clarification by means of settling, centrifugation, filtration and fining.

OENOLOGY 3009WT
Advanced Sensory Practice

- 2 units - semester 1(second half)
- 2 lectures, 4 hours practicals a week
- Prerequisite: OENOLOGY 2022WT Sensory Studies
- Assessment: written exam, group presentation, tasting tests

The course examines advanced sensory evaluation of wine and other products. Topics cover wine flavour/aroma and fault analyses, wine and food interactions, European red and white wine styles, specialised Spanish wine tasting, beer tasting and production, wine judging and wine marketing.

OENOLOGY 3011WA

OENOLOGY 3011WT
Winemaking

- 3 units - semester 1
- 8 hours per week (or equivalent) commencing first week of February
- Prerequisite: OENOLOGY 2024WT Introductory Winemaking
- Corequisite: OENOLOGY 3016WT Cellar and Winery Waste Management
- Assessment: written exam, wine reports and presentations

Major table winemaking projects will be utilised to integrate wine technology with practical strategies to achieve wine quality targets.

OENOLOGY 3016WA

OENOLOGY 3016WT
Cellar and Winery Waste Management

- 3 units - semester 1
- 2 lectures, 4 hours practicals per week
- Prerequisite: OENOLOGY 2024WT Introductory Winemaking
- Corequisite: OENOLOGY 3011WT Winemaking
- Assessment: final exam, practical reports and tutorial papers

Vintage planning; occupational health and safety, winery record keeping; microbial control, cellular hygiene; winery waste management.

OENOLOGY 3033WT
Industry Experience (Oenology) A

- 4 units - summer vacation, semester 1
- 10 weeks work experience
- Prerequisite: OENOLOGY 3011WT Winemaking, OENOLOGY 3016WT Cellar and Winery Waste Management
- Assessment: written diary, written report, poster presentation

This course is largely practically orientated, based on work experience at a commercial winery during vintage. A specified level of proficiency in the following operations is expected: grape receival and weighbridge; crushing; draining and pressing; fermentation and postfermentation operations and quality control procedures. Furthermore, an understanding of the contribution of each of the specified unit operations to the overall winemaking process is required.

OENOLOGY 3037WA

OENOLOGY 3037WT
Distillation, Fortified and Sparkling Winemaking

- 3 units - semester 2 (second half)
- 2 lectures, 4 hours practicals per week for 7 weeks
- Prerequisite: OENOLOGY 2024W Introductory Winemaking, OENOLOGY 2022WT Sensory Studies, OENOLOGY 3016WT Cellar and Winery Waste Management
- Assessment: practical reports, assignments, written exam

Distillation principles and wine distillation practices. Production of Australian and overseas grape spirits for fortified wine and brandy production. Production of potable distilled beverages other than brandy. Legal requirements of fortified wine production and distillation. Production of Australian and overseas sparking wine styles. Sensory evaluation of spirits, fortified and sparkling wines.

OENOLOGY 3045WT

Advances in Oenology

- 3 units - semester 2
- 2 lectures per week, practical sessions, industry visits equivalent of 4 hours per week
- Assumed Knowledge: OENOLOGY 2024WT Introductory Winemaking
- Assessment: written exam, reports on practical exercises, industry visits

Current research and practices in oenology. Particular emphasis will be placed on grape and wine phenolics and flavour compounds; methods of analysis in wine science; yeast biochemistry including nutrition, sugar transport, nitrogen and organic acid metabolism, ethanol toxicity, sulphur dioxide production and tolerance, yeast aroma compounds; the malolactic fermentation - biochemical and molecular approaches. Wine industry visits will focus on modern practices and recent developments to increase production efficiencies and wine quality.

OENOLOGY 3046WT

Fermentation Technology

- 3 units - semester 2
- 8 hours per week
- Eligibility: Bachelor/Grad.Cert/Grad.Dip/Masters Oenology students
- Prerequisite: OENOLOGY 2024WT Introductory Winemaking, OENOLOGY 2022WT Sensory Studies
- Assessment: exam, written work, practical reports, presentations

This practical course provides students with the opportunity to gain hands on winemaking experience that expands on areas of fermentation technology and preparation of wine for bottling post vintage. The course introduces students to the planning and managing of winemaking strategies, and importantly complements the theory covered in the other wine technology courses for table wine production. Another objective of this course is to help students make a considerable progression in the development of their wine sensory evaluation skills.

OENOLOGY 3047WA

OENOLOGY 3047WT

Winemaking at Vintage

- 3 units - semester 1
- 8 hours per week
- Eligibility: Bachelor/Grad.Cert/Grad.Dip/Masters Oenology students
- Prerequisite: OENOLOGY 2024WT Introductory Wine making, OENOLOGY 2022WT Sensory Studies
- Corequisite: OENOLOGY 3016WT Cellar and Winery Waste Management

This practical course provides students with the opportunity to gain hands on winemaking experience over the vintage period. The course introduces students to the planning and managing of winemaking strategies. It covers all aspects of grape processing, white juice preparation and red wine fermentation and is designed to complement the theory covered in the other wine technology courses for table wine production. This course also aims to help students make a considerable progression in the developments of their wine sensory evaluation skills.

OENOLOGY 4001WT

Honours Oenology (B.Ag.Sc.)

- 12 units - full year
- 15 hours per week, at least 30 hours per week during February and other vacations
- Prerequisite: credit or higher in at least two level III courses approved by the Head of Discipline
- Assessment: coursework, essays or other assignments not forming part of the research project 40%, research project: - research proposal, seminar, thesis and viva voce 60%

Substantial research project of the students choosing on a topic acceptable to the Discipline of Wine and Horticulture, as well as coursework, essays or other assignments deemed appropriate to each students Honours program.

Intending candidates should consult the Head of Discipline, the Discipline Honours Coordinator and potential supervisors as early as possible and, in any case, no later than December 1 immediately preceding the start of the Honours program. Research topics will be decided in December/January and full-time work must begin no later than February 1.

Oral Health

Level I

ORALHLTH 1200HO

First Annual Oral Health Examination

ORALHLTH 1201AHO/BHO

Dental and Health Science IOH

- 6 units - full year
- 7 hours per week including class meetings/learning laboratories/tutorials
- Eligibility: available to BOH students only
- Corequisite: DENT 1202AHO/BHO Clinical Practice IOH, DENT 1203AHO/BHO Human Biology IOH, DENT 1204AHO/BHO general Studies IOH
- Assessment: tests, practical assessments, assignments, viva voces, written exams

This stream aims to introduce students to the oral cavity. It also provides an introduction to the areas which support the practice of a dental auxiliary. Problem-based learning allows students to use a systematic approach to investigating various oral conditions which will affect their prospective client group. In addition to this, students are introduced to the behavioural sciences and psychology relevant to their role in the dental team.

Topics include: professional practice and the role of the dental auxiliary in delivering holistic dental care, periodontology, oral health education, cariology, flouride, developmental psychology and the management and motivation of dental patients, culture, health and disease, sociology of dentistry.

ORALHLTH 1202AHO/BHO
Clinical Practice IOH

- 8 units - full year
- 12 hours per week including class meetings/clinical/practical sessions
- Eligibility: available to BOH students only
- Corequisite: DENT 1201AHO/BHO Dental and Health Science IOH, DENT 1203AHO/BHO Human Biology IOH, DENT 1204AHO/BHO General Studies IOH

This stream aims to provide students with an opportunity to integrate theoretical and practical skills. Students will be given an opportunity to gain operative experience at the chairside, technical and office management levels. Topics include infection control, occupational health and safety, dental records, pre-clinical studies, applied dental clinical practice and radiography.

ORALHLTH 1203AHO/BHO
Human Biology IOH

- 6 units - full year
- 8 hours per week including class meetings/laboratory sessions/research-based practical sessions/tutorials
- Eligibility: available to BOH students only
- Corequisite: DENT 1201AHO/BHO Dental and Health Science IOH, DENT 1202AHO/BHO Clinical Practice IOH, DENT 1204AHO/BHO General Studies IOH
- Assessment: assignments, tutorial and laboratory exercises, tests, viva voces, written exams

This stream aims to provide the student with the biological grounding upon which the practice of dentistry rests. It is an introduction to the anatomy and physiology of the human body and in particular the teeth and oro-facial regions, and involves the study of diseases of the teeth and their supporting tissues. Topics include: basic biochemistry, general anatomy and physiology, general histology, oral histology and embryology, anatomy and physiology of the head and neck, microbiology and immunology.

ORALHLTH 1204AHO/BHO
General Studies IOH

- 4 units - full year
- 3.5 hours per week
- Eligibility: available to BOH students only
- Corequisite: DENT 1201AHO/BHO Dental and Health Science IOH, DENT 1202AHO/BHO Clinical Practice IOH, DENT 1203AHO/BHO Human Biology IOH
- Assessment: competency-based assessment, tests, written exams, portfolio

This stream aims to provide the student with a range of generic skills to support their role as a para-dental professional. Topics include information literacy, orientation to learning and workplace communication. Information literacy will provide the student with a basic understanding of computing fundamentals. Orientation to learning will introduce the student to concepts and skills which will underpin study and lifelong learning in professional practice. Workplace communication will develop communication strategies to effectively work as a member of the dental team.

Topics include orientation to learning, client interaction, team building communication, writing technical documents, health education, information literacy, database fundamentals.

Level II

ORALHLTH 2200HO
Second Annual Oral Health Examination

ORALHLTH 2201AHO/BHO
Dental & Health Science IIOH

- 4 units - full year
- 7.5 hours per week including class meetings/learning laboratories/tutorials
- Eligibility: available to BOH students only
- Prerequisite: DENT 1201A/BHO Dental and Health Science IOH and DENT 1200HO First Annual Oral Health Exam
- Corequisite: DENT 2202AHO/BHO Clinical Practice IIOH, DENT 2203AHO/BHO Human Biology IIOH, DENT 2204AHO/BHO General Studies110H
- Assessment: tests, assignments, viva voces, seminars, written exams

This stream aims to build upon the knowledge gained in first year, as well as introduce new areas of contemporary dental practice. It introduces specialised dental practice and the role of the auxiliary, community dental health issues and develops the role of the preventative and operative dental auxiliary.

Topics include: pain control, periodontology, cariology, flouride, orthodontics for the dental auxiliary, dental specialities, epidemiology, community health.

ORALHLTH 2202AHO/BHO

Clinical Practice IIOH

- 12 units - full year
- 19 hours per week including laboratory/clinical sessions
- Eligibility: available to BOH students only
- Prerequisite: DENT 1202A/BHO Clinical Practice IOH and DENT 1200HO First Annual Oral Health Exam
- Corequisite: DENT 2201AHO/BHO Dental and Health Science IIOH, DENT 2203AHO/BHO Human Biology IIOH, DENT 2204AHO/BHO General Studies110H
- Assessment: observation, journals, viva voces, practical exams, written exams

This stream aims to build upon Clinical Practice I with regard to the consolidation of preventative, periodontal and restorative clinical skills, through manikin exercises and provision of treatment for selected patients. Strong emphasis is placed on the ability to consistently apply quality assurance principles and processes in dental auxiliary practice.

Topics include clinical dental hygiene practice, operative dentistry (theory & practical), clinical dental therapy practice and periodontics.

ORALHLTH 2203AHO/BHO

Human Biology IIOH

- 4 units - full year
- 3 hours per week class meetings/research-based practical sessions/tutorials
- Eligibility: available to BOH students only
- Prerequisite: DENT 1203A/BOH Human Biology IOH and DENT 1200HO First Annual Oral Health Exam
- Corequisite: DENT 2201AHO/BHO Dental and Health Science IIOH, DENT 2202AHO/BHO Clinical Practice IIOH, DENT 2204AHO/BHO General Studies110H
- Assessment: practical tests, viva voces & written exams

This stream aims to prepare the student to understand the medical aspects of clinical dentistry, pharmacology, local anaesthetics and the role of the dental auxiliary in the management of medical and dental emergencies in dental practice. Topics include applied oral microbiology, medicine and pharmacology, pathology, applied oral pathology.

ORALHLTH 2204HO

General Studies IIOH

- 4 units - semester 1
- 3 hours per week
- Eligibility: available to BOH students only
- Prerequisite: DENT 1200HO First Annual Oral Health Exam
- Corequisite: DENT 2201AHO/BHO Dental and Health Science IIOH, DENT 2202AHO/BHO Clinical Practice IIOH, DENT 2203AHO/BHO Human Biology110H
- Assessment: assignments, tests, written exams

This stream aims to equip the student with the skills to analyse and review journal articles. Furthermore, students will have the opportunity to gain skills in the process of collecting, collating and analysing data. Topics include evidence-based dentistry, biostatistics, and epidemiology.

Level III

ORALHLTH 3200HO

Third Annual Oral Health Examination

ORALHLTH 3201AHO/BHO

Dental & Health Science IIIOH

- 8 units - full year
- 3.5 hours per week including class meetings/research-based practical sessions/tutorials
- Eligibility: available to BOH students only
- Prerequisite: DENT 2201A/BHO Dental and Health Science IIOH and DENT 2200HO Second Annual Oral Health Exam
- Corequisite: DENT3202AHO/BHO Clinical Practice IIIOH, DENT3204AHO/BHO Oral Health Elective IIIOH
- Assessment: assignments, tutorial & seminar presentations, tests, written exams

This stream aims to further develop and consolidate the student's paedodontic clinical role. In addition the topics of gerodontology and dental public health will also give the student the opportunity to broaden their dental focus.

Topics include gerodontology, dental public health, applied child psychology, clinical dentistry for dental therapy practice.

ORALHLTH 3202AHO/BHO

Clinical Practice IIIOH

- 12 units - full year
- 16 hours per week including clinical sessions
- Eligibility: available to BOH students only
- Prerequisite: DENT 2202A/BHO Clinical Practice IIOH and DENT 2200HO Second Annual Oral Health Exam
- Corequisite: DENT 3201AHO/BHO Dental and Health Science IIIOH, DENT3204AHO/BHO Oral Health Elective IIIOH
- Assessment: observation, journals, viva voces, practical tests

This stream aims to further develop the student's preventive, periodontal and operative role as a dental auxiliary. Topics include dental therapy practice, dental hygiene practice, clinical radiology.

ORALHLTH 3204AHO/BHO

Oral Health Elective IIIOH

- 4 units - full year
- 7 hours per week in semester 2
- Eligibility: available to BOH students only
- Prerequisite: DENT 2200HO Second Annual Oral Health Exam
- Corequisite: DENT 3201AHO/BHO Dental and Health Science IIIOH, DENT3202AHO/BHO Clinical Practice IIIOH
- Assessment: to be advised

This stream aims to provide the student with the necessary research skills to undertake a major study and the opportunity to focus on a major research assignment to enhance their role as an oral health professional. Topics include research methodology and a major assignment.

Pathology

Level II

PATHOL 2000

Biology of Disease II

- 4 units - semester 2
- 3 lectures/large group tutorials per week
- Prerequisite: ANAT SC 1102A/B Human Biology I
- Eligibility: B.Hlth.Sc. & B.Psych (Hons) students only
- Assessment: written exam, assignments

The course provides a general introduction to pathology, i.e. the scientific study of disease. Topics covered include the classification, causes and mechanisms of basic tissue processes which underlie disease (e.g. inflammation, ischaemia, neoplasia) as well as discussion of the pathology of some common diseases (e.g. dementia, diabetes mellitus, ischaemic heart disease, and some cancers).

Level III

PATHOL 3003

General Pathology IIIHS

- 6 units - semester 1
- 2 lectures, 2 hour practical per week, 1 hour tutorial per fortnight, 3 x 1 hour clinico-pathological correlation (CPC) sessions
- Eligibility: B.Hlth.Sc., B.Sc & B.Psych (Hons) students
- Prerequisite: B.Hlth.Sc. students - Pass in ANAT SC 1102A/B Human Biology I, Div 1 pass (P1) in PATHOL 2000 Biology of Disease II; Other students - Pass in one or more of: PHYSIOL 2000A/B Human Physiology (or equiv), PHYSIOL 2003 Human Physiology IIA: Heart, Lungs and Circulation, ANAT SC 2102 Cells, Tissues & Development (or equiv) - Prerequisites may be waived in special circumstances, contact department for details
- Assessment: written theory exam, practical exam, assignments

The aim of this course is to provide students with an overview of the causes and consequences of human disease. General topics covered include the nature and causes of cell injury and death; tissue responses to injury; adaptive cellular changes; healing and repair, thrombosis, embolism and infarction and neoplasia. More detailed attention is given to the topics of cardiovascular disease - including ischaemic heart disease, hypertension, stroke, deep venous thrombosis and pulmonary embolism- and lung diseases, such as lung cancer, asthma and emphysema, diseases associated with smoking and alcohol, diabetes and shock. The tutorials and practical classes provide an opportunity for students to examine macroscopic and microscopic specimens, illustrating the pathology covered in lectures. CPC sessions will allow students to use their theoretical knowledge to discuss simple clinical cases and explore how cellular and tissue changes correlate with the symptoms of disease. A basic background knowledge of anatomy, histology and physiology is expected.

PATHOL 3004

Pathology of Organ Systems

- 6 units - semester 2
- 2 lectures, 2 hour practical per week, 1 hour tutorial per fortnight, 3 x 1 hour clinico-pathological correlation (CPC) sessions
- Prerequisite: Div 1 pass (P1) grade in PATHOL 3003 General Pathology IIIHS
- Eligibility: B.Hlth.Sc. & B.Psych (Hons) students only
- Assessment: written theory exam, practical exam, assignments

This course is a progression of General Pathology IIIHS and covers a wide range of diseases in many organ systems including the gastrointestinal tract; liver; central nervous system; renal system; and the male and female reproductive tract. The tutorials and practical classes will again provide an opportunity for students to examine macroscopic and microscopic specimens, illustrating the pathology covered in lectures. CPC sessions will involve more complex cases as students develop greater knowledge of the range of diseases and their manifestations.

Honours

PATHOL 4000

Honours Pathology

- 24 units - full year
- Eligibility: B.Med.Sc. & B.Hlth.Sc. students, or permission of Head of Department
- Assessment: details provided at start of clinical year

Students requiring further information concerning syllabuses and work required for the Honours degree of Bachelor of Medical Science are advised to consult the Head of the appropriate department as early as possible.

Pharmacology

Level II

PHARM 2002
Pharmacology II

- 4 units - semester 1
- 2 lectures per week, 1 tutorial & 1 workshop per fortnight
- Eligibility: B.Hlth.Sci, B.Psych.(Hons.) students only
- Prerequisite: ANAT SC 1102A Human Biology 1 or GENETICS 1000A/B Molecular and Cell Biology 1 or ENV BIOL 1000A/B Biology 1 (or equiv)
- Assessment: end of semester exam 65%, assessment test 15%, drug profile assignment (written/oral presentations) 20%

The course introduces students to basic concepts and principles needed to understand the effects of drugs in humans. Students will gain an appreciation for how drugs interact with cellular target molecules, as well as for the cellular and physiological responses resulting from such interactions. These concepts will be illustrated by examining major drug classes and their use in the treatment of major human diseases, including drugs that influence the central nervous system.

PHARM 2003
Toxicology II

- 4 units - semester 2
- 2 lectures per week, 1 tutorial per fortnight, 1 workshop per month
- Eligibility: B.Hlth.Sci, B.Psych.(Hons.) students only
- Prerequisite: PHARM 2002 Pharmacology II
- Assessment: end of semester exam 65%, assessment test 15%, risk assessment assignment (written/oral presentations) 20%

The course will provide an appreciation for the potential negative health effects accompanying human exposure to foreign and naturally occurring chemicals. Specific classes of toxic substances and the mechanisms underlying their adverse effects will be surveyed. Students will also develop an understanding of the methods used by toxicologists to ensure chemicals that enter the human environment are safe.

Level III

PHARM 3004
Concepts in Pharmacology A III

- 3 units - semester 1
- 2 lectures per week, 1 tutorial per fortnight
- Eligibility: B.Hlth.Sci, B.Psych.(Hons.) students only
- Prerequisite: PHARM 2002 Pharmacology II or satisfactory performance in the following (subject to approval of Head of Department) - BIOCHEM 2000A & B or BIOCHEM 2001A & B, CHEM 2000A & B or CHEM 2001A & B, PHYSIOL 2003 and 2004 or PHYSIOL 2001A & B, PATHOL 2000 Biology of Diseases II or PHARM 2003 Toxicology II
- Assessment: end of semester exam 65%, assessment test 15%, drug profile assignment (written/oral presentations) 20%

The course will provide students with an understanding of how drug actions can be understood as consequences of drug-receptor interactions. Information concerning specific drug classes and their use in humans will be conveyed in a mechanistic rather than a disease-based context.

PHARM 3005
Research Methods in Pharmacology A III

- 3 units - semester 1
- 1 lecture, 6 hour practical session per week
- Eligibility: B.Hlth.Sci, B.Psych.(Hons.) students only
- Quota will apply
- Prerequisite: PHARM 2001 Pharmacology and Toxicology II or PHARM 2002 Pharmacology II, or equivalent
- Corequisite: PHARM 3004 Concepts in Pharmacology A III
- Assessment: written assignment of selected pharmacological research technique, ongoing assessment of practical, written exams

The course will provide laboratory and experimental proficiency for students, ensuring they gain an appreciation for studying drug actions at different levels of biological organization, ranging from simple in vitro systems (e.g. organ baths) to whole animals.

PHARM 3006
Fundamentals of Drug Discovery III

- 3 units - semester 1
- 1 lecture, 2 hour tutorial/PBL session per week
- Eligibility: B.Hlth.Sci, B.Psych.(Hons.) students only
- Prerequisite: PHARM 2001 Pharmacology and Toxicology II or PHARM 2002 Pharmacology II, or equivalent
- Corequisite: PHARM 3004 Concepts in Pharmacology A III
- Assessment: drug discovery essay 40%, assessment test 35%, oral presentation 25%

The course will provide an appreciation for historical and modern approaches to drug discovery. Students will gain an understanding of the problems encountered during the identification and design of new chemicals with promising pharmacological actions.

PHARM 3007
Concepts in Pharmacology B III

- 3 units - semester 2
- 2 lectures per week, 1 tutorial per fortnight
- Eligibility: B.Hlth.Sci, B.Psych.(Hons.) students only
- Prerequisite: PHARM 3004 Concepts in Pharmacology A III
- Assessment: end of semester exam 65%, assessment test 15%, toxicology assignment (written/oral presentations) 20%

The course will provide knowledge of key factors that influence and govern the effects of drugs within the body, ranging from molecular determinants to physiological factors that control the disposition of drugs within the body. Students will also gain an appreciation for the types of harmful effects drugs sometimes produce, and the mechanisms whereby they exert their deleterious action.

PHARM 3008
Research Methods in Pharmacology B III

- 3 units - semester 2
- 1 lecture, 6 hour practical session per week
- Eligibility: B.Hlth.Sci, B.Psych.(Hons.) students only
- Quota will apply
- Prerequisite: 3005 Research Methods in Pharmacology A III
- Corequisite: PHARM 3007 Concepts in Pharmacology B III
- Assessment: written exams, project assessment

The course will provide proficiency in the design and execution of pharmacological research projects using modern research methodologies. Students will work on 10-week projects in laboratories dedicated to exploring a range of contemporary pharmacological problems, including pharmacogenetics, drug abuse, neuropharmacology and molecular toxicology. Projects will expose students to a range of contemporary techniques used in pharmacological and toxicological research.

PHARM 3009
Fundamentals of Drug Development III

- 3 units - semester 2
- 12 x 1 hour lectures, 1 x 3 hour workshop/PBL session per week
- Eligibility: B.Hlth.Sci, B.Psych.(Hons.) students only
- Prerequisite: PHARM 2001 Pharmacology and Toxicology II or PHARM 2002 Pharmacology II, or equivalent
- Corequisite: PHARM 3007 Concepts in Pharmacology B III
- Assessment: end of semester test 50%, PBL presentations 20%, clinical trial design exercise 30%

The course will provide students with an understanding of the Drug Development process from the time of first administration of an entity to humans through to registration of a drug with the relevant governmental agencies.

PHARM 3010
Pharmacology A III

- 6 units - semester 1
- Weekly lectures, tutorials and practical sessions
- Eligibility: B.Sc, B.Sc.(Biomed.Sc.), B.Sc.(Biotech.) B.Sc and Engineering students only
- Quota will apply
- Prerequisite: BIOCHEM 2000A & B or BIOCHEM 2001A & B, CHEM 2000A & B or CHEM 2001A & B, PHYSIOL 2003 and 2004 or PHYSIOL 2001A & B
- Assessment: end of semester exam 60%, assessment tests 15%, practical reports 20 %, drug profile assignment 5 %

The course will provide students with an understanding of how drug actions can be understood as consequences of drug-receptor interactions. The practical component of this course will provide laboratory and experimental proficiency for students, ensuring they gain an appreciation for studying drug actions at different levels of biological organisation, ranging from simple in vitro systems (e.g. organ baths) to whole animals.

PHARM 3011
Pharmacology B III

- 6 units - semester 2
- Weekly lectures, tutorials and practical sessions
- Eligibility: B.Sc, B.Sc.(Biomed.Sc.), B.Sc.(Biotech.) students only
- Quota will apply
- Prerequisite: PHARM 3010 Pharmacology A III
- Assessment: end of semester exam 60%, assessment test 4%, toxicology assignment 5%, project reports 25%,project oral presentation 6%

The course will provide students with knowledge of key factors that influence and govern the effects of drugs within the body, ranging from molecular determinants to physiological factors that control the disposition of drugs within the body. Students will also gain an appreciation for the types of harmful effects drugs sometimes produce, and the mechanisms underlying these deleterious actions. The laboratory component of the course will provide proficiency in the design and execution of small lab-based research projects using modern experimental methodologies. Students will explore a range of contemporary pharmacological problems while working on 10 week projects that span such areas

as pharmacogenetics, pharmacokinetics, drug abuse, neuropharmacology and molecular toxicology.

Honours

PHARM 4000

Honours Pharmacology

- 12 units - semester 1
- Eligibility: B.Hlth.Sc.(Hons.), B.Sc.(Hons.) students only
- Prerequisite: PHARM 3001 Introductory Pharmacology and PHARM 3002 Advanced Topics in Pharmacology and Toxicology, or PHARM 3003A/B Pharmacology III (Biomedical Science)
- Assessment: to be advised at start of year

Intending candidates should consult the Honours Coordinator, Department of Clinical and Experimental Pharmacology during the final year of their program.

Candidates are required to give their full attendance to a special program of study and experimental work in the pharmacology laboratory, and to participate in a research project under the direction of a member of the academic staff. The results of the research project are to be embodied in a thesis in a form specified by the Department. Seminar presentations and a written assignment will also be required.

Philosophy

Level I

PHIL 1101

Argument and Critical Thinking

- 3 units - semester 1
- 2 lectures, 1 tutorial per week
- Available for Non-Award study
- Assumed Knowledge: students for whom English is a second language (ESL) are advised that a good level of English competence is assumed. It is recommended that ESL students consult the Course Coordinator to discuss enrolment in the course
- Assessment: 500 word essay, 1000 word essay, 2 hour open book exam

Argument is an activity we all engage in, with varying results, in all walks of life. It is what we use to guide and justify our actions. Over two millennia there have developed a series of theoretical classifications and techniques for the identification of arguments and their typical strong points and common errors, and for communicating these findings to others. These are useful things for anyone to know. This course develops these methods and applies them to real-life arguments, both written and spoken. It is thus an introduction to communication and applied logic. The course uses ordinary language examples and has no symbols. The course is broadly cultural, in discussing actual arguments and issues from the Ancient Greeks to current debates. A feature is several lectures on the theory of legal argument, in the belief that the basic distinctions of legal argument are useful to everyone. The course concludes with several lectures on the "science-pseudoscience" debate, where these methods are applied to discussion of examples such as UFOs, parapsychology, Bigfoot, pyramids, the Bermuda Triangle and alien abductions.

PHIL 1102

Mind, Knowledge and God

- 3 units - semester 2
- 2 lectures, 1 tutorial per week
- Available for Non-Award study
- Assessment: 1400-1800 word essay 50%, exam 50%

Of all the objects in the universe, the one you are most intimately acquainted with is your own mind. It is this object that enables you to sense and think about the world in which you are embedded. And yet, of all the kinds of objects in the universe, the mind is one we know least about. Why is this? What is it about the mind that has made it so resistant to scientific explanation? This course begins with this fundamental problem, and through an examination of rationality, meaning, consciousness and the self, attempts to develop an understanding of the relationship between mind and the material world. With this as a foundation, the course confronts the problem of knowledge: Can we be said to know, with any degree of certainty, anything about the world in which we are embedded? The course then examines the nature of scientific knowledge, with a particular emphasis on the relationship between theory and observation. The course concludes with an examination of one of the oldest questions of all: Does God exist?

PHIL 1103

Morality, Society and the Individual

- 3 units - semester 1
- 2 lectures, 1 tutorial per week
- Available for Non-Award study
- Assessment: 1400-1800 word essay 50%, exam 50%

What ultimate grounding can be given to judgements of right and wrong, and how much control should society exert over the actions of its members? Three main topics are pursued in this course: (1) Ethics - Is there a rational basis for morality, whether in terms of self-interest, the will of God, the demands of society, or the greatest happiness of the greatest number? (2) Ethics and Human Nature - Does evolutionary theory throw light on human nature, and what moral implications does it have? (3) Problems of Freedom - Is the standard Liberal approach to pornography sound? Do we have free will? Is the state justified in encroaching on personal freedom?

PHIL 1110

Logic I: Beginning Logic

- 3 units - semester 2
- 2 lectures, 1 tutorial per week
- Available for Non-Award study
- Assessment: 2 in-class tests, exam (all open book)

We all engage in logical reasoning as part of everyday decision making. The systematic study of logic was invented over two thousand years ago by the great Ancient Greek philosopher Aristotle. In the last hundred years logic has undergone a revolution with the development of symbolic techniques. Logic I is an introduction to the methods of symbolic logic. The course is suitable for students in all Faculties. No background in mathematics is assumed, and all techniques are taught from the ground up, using both traditional and web-based methods. While there are no prerequisites for Logic I, students will find that Argument and Critical Thinking is a useful preliminary.

Level II

PHIL 2007

Foundations of Modern Philosophy

- 4 units - semester 2
- 2 lectures, 1 tutorial per week
- Prerequisite: 6 units Level I Humanities/Social Sciences (including 3 units Philosophy)
- Restriction: Modern Classical Philosophers
- Assessment: essays totalling 4800 - 6000 words

All traditions in western philosophy are shaped by a series of challenges which occupied philosophers from about the seventeenth century. Philosophers in this modern period tried to come to grips with the consequences of an emerging scientific approach to explaining the world for our understanding of the world and our place in it. Ethics, political philosophy, the theory of knowledge, philosophy of language, philosophy of religion, metaphysics and the philosophy of mind would never be the same again. In this course we look at the work of philosophers such as David Hume, Immanuel Kant, John Locke, Rene Descartes, Benedict Spinoza, Wilhelm Leibniz, and Thomas Hobbes on these themes, with particular emphasis on tracing connections between their arguments and those of present day philosophers. It turns out that many of our present day conundrums over, say, the nature of political obligation, the role of experience in gaining knowledge of the world, the nature of the mind and our knowledge of ourselves were anticipated and discussed by these thinkers.

PHIL 2011

Moral Problems

- 4 units - semester 1
- 2 lectures, 1 tutorial per week
- Prerequisite: 6 units Level I courses in any Faculty
- Restriction: Bioethics II/III
- Assessment: essays totalling 4800 - 6000 words

We are surrounded by ethical debates on issues of intense controversy. Under what circumstances should abortion or euthanasia be permitted? What ethical principles should govern extension of reproductive medical technology? What should we think about the morality of sex, war, drugs, and the relations between rich and poor? This course uses the techniques of moral philosophy to examine and defend answers to these questions, looking at the underlying questions of principle and moral theory on which those answers depend.

PHIL 2015

Issues in the Philosophy of Language

- 4 units - semester 1
- 2 lectures, 1 tutorial per week
- Prerequisite: 6 units Level I Humanities/Social Sciences (including 3 units Philosophy)
- Restriction: Reality, Truth and Meaning
- Assessment: 2 x 2000 word essays, take home exam, tutorial participation

This course will examine the interrelated issues of truth, reference and meaning from a primarily analytical perspective. We will focus on names, descriptions, and natural kind terms. Key concepts will include truth-conditions, realism and naturalism. We will also spend some time looking at theories of metaphor.

PHIL 2016

Mental Representation, Consciousness and Self

- 4 units - semester 2
- 2 lectures, 1 tutorial per week
- Prerequisite: 6 units Humanities/Social Sciences (including 3 units Philosophy), or approval by Head of Discipline
- Assessment: essays totalling 4800 - 6000 words

In spite of the huge advances made in other areas of natural science, much about the human mind remains mysterious. In particular, there are three outstanding problems concerning the mind and its relationship to the world: How does the mind construct mental representations, and in doing so impose meaning on a material universe? What is the nature of consciousness and how can it be explained naturalistically? What is the nature of self and how is it constructed by the human brain? This course will

examine each of these questions, and survey the most promising answers developed by contemporary philosophers of mind.

PHIL 2020
How Should I Live: Contemporary Ethical Theories

- 4 units - semester 1
- 2 lectures, 1 tutorial per week
- Prerequisite: 6 units Humanities/Social Sciences (including 3 units of Philosophy)
- Assessment: essays totalling 4800 - 6000 words

For each of us, the question of how we should live is inescapable. How should we answer this question, and how should we justify our answer? This course investigates the range of answers offered by contemporary ethical philosophers. A variety of normative ethical theories - theories telling us how to live - will be examined, including forms of consequentialism, contractualism, contemporary Kantian and Aristotelian views, virtue theories, existentialism, and a feminist 'ethics of care'. We shall also be looking at the views of ethical 'anti-theorists', who hold that giving a proper justification for the way we live should not amount to producing a theory at all. If not, what is the alternative? What are the possibilities and limits of practical ethical thought and argument?

PHIL 2021
Justice & Power: Contemporary Political Philosophy

- 4 units - semester 2
- 2 lectures, 1 tutorial per week
- Prerequisite: 6 units Level I Humanities/Social Sciences (including 3 units of Philosophy)
- Assessment: essays totalling 4800 - 6000 words

What makes a state just? The distribution of resources and opportunities within it? The way the state exercises power over individual groups who make up the society? The level of the average or overall welfare of the citizens? Legal equality? The ability of individuals to determine their own life course? Perhaps justice is not a political issue at all, but something which should be left to individuals to pursue privately within a very 'minimal' state? Different conceptions of justice have very different implications for the way people live and the way we evaluate government policies. In the last few decades philosophers have started to reexamine these issues in a very fundamental way, returning to some of the founding themes of modern political philosophy such as exploitation, inequality and entitlement. We will examine the arguments and their consequences for a diverse range of issues from constitutionally guaranteed human rights to economic exploitation and social injustice, both within and between nations.

PHIL 2023
Professional Ethics

- 4 units - semester 2
- 2 lectures, 1 tutorial per week
- Prerequisite: 6 units Level I courses in any Faculty
- Assessment: essays totalling 4800 - 6000 words

It is essential for professionals in any field to have an understanding of the ethical problems and principles in their field. But anyone, no matter what their job, must deal with many other professions as well. Hence part of professional ethics is the understanding of the ethics of other professions: how they interact and what can be expected from them as correct ethical behaviour. In turn, any professional will benefit from a critical scrutiny of their own ethics by those from other professions. The general principles of professional ethics will be examined, as well as the distinctive problems of the different fields. The course is taught in six modules of four lectures and two tutorials each, covering the ethics of several major professions: Business Ethics, Media Ethics, Police Ethics, Medical Ethics, Legal Ethics, and Research Ethics. Topics covered will also include: why be moral, the nature of a profession, why have a code of professional ethics, confidentiality, whistleblowing, the responsibility of business to the environment, uses and abuses of human research, and animal ethics in research.

PHIL 2024
Beauty: Pleasures and Principles

- 4 units - semester 1
- 2 hour lecture, 1 tutorial per week
- Prerequisite: 6 units Level I courses (including 3 units Philosophy)
- Assessment: essays totalling 4800 - 6000 words

We will consider the history of beauty theory through two traditions: the Pythagorean tradition, and the Pleasure-Principle tradition. These will lead to an investigation of the prevalent metaphysical and religious commitments of their respective ages: ancient, medieval, and twentieth-century. Examples of the two traditions found in the twentieth century will be considered in more detail: Mary Mothersill (Pythagorean, e.g. cognitive science), and Guy Sircello (Pleasure-Principle, e.g., fashion, feminism, psychology). The course will also discuss applications to contemporary film theory.

PHIL 2025
Philosophy of Art: Knowledge, Emotion & Intention

- 4 units - semester 2
- 2 hour lecture, 1 tutorial per week
- Prerequisite: 6 units in any Faculty
- Assessment: essays totalling 4800 - 6000 words, tutorial reading & participation

This course will be taught as three modules. 1) What does art teach us? Plato banned artists and poets from his ideal Republic such was the influence he attributed to the literal content of their work. Aristotle disagreed because he believed that a critical distance was created between the spectator and the work. We will consider responses by Plato, Aristotle and Hegel to contemporary philosophers like Martha Nussbaum. Examples will be taken from visual art, music and particularly film. 2) Why do we enjoy painful experiences in art (e.g. horror and tragedy)? Is it a matter of catharsis (an expunging of one's passions vicariously through the misfortunes of fictional others) or perhaps it is based in the relief one might feel at one's own safe distance from the tragic events? Aristotle, Longinus, Burke, Hume and contemporary philosophers like Cynthia Freeland will help us consider the possible answers to this question through a study of film. 3) Do we need to know about the artist's intention independently of what is evident in the artwork in order to appreciate the artwork? We will consider various theories of interpretation, including those by Arthur Danto and Peter Lamarque. Examples will be taken from literature and visual art.

PHIL 2110

Logic II: Intermediate Logic

- 4 units - semester 1
- 2 lectures, 1 tutorial, 1 hour computer lab per week
- Prerequisite: Logic I or Discrete Mathematics or Mathematics I or Computer Science I (or equivs) or permission of Head of Discipline
- Restriction: Logic IIIA, Logic III Advanced Logic
- Assessment: 2 in-class tests, 3 hour exam (all open book), written exercise (take-home) - assessment weighted to favour component in which the student does best

Logic is a discipline standing between mathematics and philosophy, underpinning computer science and with applications in computer languages such as Prolog. Logic II treats the techniques of modern symbolic logic in greater depth and with a more formal emphasis than Logic I. There are two normal routes of entry into Logic II, either via Logic I, or via a first year course having a substantially formal content and a component of logic, including Mathematics I or Computer Science I. We make extensive use of computer-aided instruction in the course. Logic II is a good preparation for Logic III. Content: semantics of truth-functions, proof theory of classical propositional logic, many-valued logics, proof theory and semantics of quantifier logic, modal logic and possible worlds, application to the theory of machines, philosophy of logics, paradoxes, introduction to writing about logic.

Level III

PHIL 3007

Foundations of Modern Philosophy

- 6 units - semester 2
- 2 lectures, 1 tutorial per week
- Prerequisite: 8 units Level II Humanities/Social Sciences (including 4 units Philosophy)
- Restriction: Modern Classical Philosophers
- Assessment: essays totalling 7500 - 9000 words

All traditions in western philosophy are shaped by a series of challenges which occupied philosophers from about the seventeenth century. Philosophers in this modern period tried to come to grips with the consequences of an emerging scientific approach to explaining the world for our understanding of the world and our place in it. Ethics, political philosophy, the theory of knowledge, philosophy of language, philosophy of religion, metaphysics and the philosophy of mind would never be the same again. In this course we look at the work of philosophers such as David Hume, Immanuel Kant, John Locke, Rene Descartes, Benedict Spinoza, Wilhelm Leibniz, and Thomas Hobbes on these themes, with particular emphasis on tracing connections between their arguments and those of present day philosophers. It turns out that many of our present day conundrums over, say, the nature of political obligation, the role of experience in gaining knowledge of the world, the nature of the mind and our knowledge of ourselves were anticipated and discussed by these thinkers.

PHIL 3011

Moral Problems

- 6 units - semester 1
- 2 lectures, 1 tutorial per week
- Prerequisite: 8 units Level II courses from any Faculty
- Restriction: Bioethics II/III
- Assessment: essays totalling 7500 - 9000 words

We are surrounded by ethical debates on issues of intense controversy. Under what circumstances should abortion or euthanasia be permitted? What ethical principles should govern extension of reproductive medical technology? What should we think about the morality of sex, war, drugs, and the relations between rich and poor? This course uses the techniques of moral philosophy to examine and defend answers to these questions, looking at the underlying questions of principle and moral theory on which those answers depend.

PHIL 3015

Issues in the Philosophy of Language

- 6 units - semester 1
- 2 lectures, 1 tutorial per week
- Prerequisite: 6 units Level I Humanities/Social Sciences (including 4 units Philosophy)
- Restriction: Reality, Truth and Meaning
- Assessment: 2 x 3000 word essays, take home exam, tutorial participation

This course will examine the interrelated issues of truth, reference and meaning from a primarily analytical perspective. We will focus on names, descriptions, and natural kind terms. Key concepts will include truth-conditions, realism and naturalism. We will also spend some time looking at theories of metaphor.

PHIL 3016

Mental Representation, Consciousness and Self

- 6 units - semester 2
- 2 lectures, 1 tutorial per week
- Prerequisite: 8 units Level II Humanities/Social Sciences (incl. 4 units Philosophy) or alternative approved by Head of Department
- Assessment: essays totalling 7500 - 9000 words

In spite of the huge advances made in other areas of natural science, much about the human mind remains mysterious. In particular, there are three outstanding problems concerning the mind and its relationship to the world: How does the mind construct mental representations, and in doing so impose meaning on a material universe? What is the nature of consciousness and how can it be explained naturalistically? What is the nature of self and how is it constructed by the human brain? This course will examine each of these questions, and survey the most promising answers developed by contemporary philosophers of mind.

PHIL 3020

How Should I Live: Contemporary Ethical Theories

- 6 units - semester 1
- 2 lectures, 1 tutorial per week
- Prerequisite: 8 units Level II Humanities/Social Sciences (including 4 units of Philosophy)
- Assessment: essays totalling 7500 - 9000 words

For each of us, the question how we should live is inescapable. How should we answer this question, and how should we justify our answer? This course investigates the range of answers offered by contemporary ethical philosophers. A variety of normative ethical theories - theories telling us how to live - will be examined, including forms of consequentialism, contractualism, contemporary Kantian and Aristotelian views, virtue theories, existentialism, and a feminist 'ethics of care'. We shall also be looking at the views of ethical 'anti-theorists', who hold that giving a proper justification for the way we live should not amount to producing a theory at all. If not, what is the alternative? What are the possibilities and limits of practical ethical thought and argument?

PHIL 3021

Justice & Power: Contemporary Political Philosophy

- 6 units - semester 2
- 2 lectures, 1 tutorial per week
- Prerequisite: 8 units Level II Humanities/Social Sciences (including 4 units of Philosophy)
- Assessment: essays totalling 7500 - 9000 words

What makes a state just? The distribution of resources and opportunities within it? The way the state exercises power over individual groups who make up the society? The level of the average or overall welfare of the citizens? Legal equality? The ability of individuals to determine their own life course? Perhaps justice is not a political issue at all, but something which should be left to individuals to pursue privately within a very 'minimal' state? Different conceptions of justice have very different implications for the way people live and the way we evaluate government policies. In the last few decades philosophers have started to reexamine these issues in a very fundamental way, returning to some of the founding themes of modern political philosophy such as exploitation, inequality and entitlement. We will examine the arguments and their consequences for a diverse range of issues from constitutionally guaranteed human rights to economic exploitation and social injustice, both within and between nations.

PHIL 3023

Professional Ethics

- 6 units - semester 2
- 2 lectures, 1 tutorial per week
- Prerequisite: 8 units Level II in any Faculty
- Assessment: essays totalling 7500 - 9000 words

t is essential for professionals in any field to have an understanding of the ethical problems and principles in their field. But anyone, no matter what their job, must deal with many other professions as well. Hence part of professional ethics is the understanding of the ethics of other professions: how they interact and what can be expected from them as correct ethical behaviour. In turn, any professional will benefit from a critical scrutiny of their own ethics by those from other professions. The general principles of professional ethics will be examined, as well as the distinctive problems of the different fields. The course is taught in six modules of four lectures and two tutorials each, covering the ethics of several major professions: Business Ethics, Media Ethics, Police Ethics, Medical Ethics, Legal Ethics, and Research Ethics. Topics covered will also include: why be moral, the nature of a profession, why have a code of professional ethics, confidentiality,

whistleblowing, the responsibility of business to the environment, uses and abuses of human research, and animal ethics in research.

PHIL 3024

Beauty: Pleasures and Principles

- 6 units - semester 1
- 1 x 2 hour lecture, 1 tutorial per week
- Prerequisite: 8 units Level II in any Faculty (including 4 units Philosophy)
- Assessment: essays totalling 7500 - 9000 words

We will consider the history of beauty theory through two traditions: the Pythagorean tradition, and the Pleasure-Principle tradition. These will lead to an investigation of the prevalent metaphysical and religious commitments of their respective ages: ancient, medieval, and twentieth-century. Examples of the two traditions found in the twentieth century will be considered in more detail: Mary Mothersill (Pythagorean, e.g., cognitive science), and Guy Sircello (Pleasure-Principle, e.g., fashion, feminism, psychology). The course will also discuss applications to contemporary film theory.

PHIL 3025

Philosophy of Art: Knowledge, Emotion & Intention

- 6 units - semester 2
- 2 hour lecture, 1 tutorial per week
- Prerequisite: 6 units in any Faculty (including 3 units Philosophy)
- Assessment: essays totalling 7500 - 9000 words, tutorial reading & participation

This course will be taught as three modules. 1) What does art teach us? Plato banned artists and poets from his ideal Republic such was the influence he attributed to the literal content of their work. Aristotle disagreed because he believed that a critical distance was created between the spectator and the work. We will consider responses by Plato, Aristotle and Hegel to contemporary philosophers like Martha Nussbaum. Examples will be taken from visual art, music and particularly film. 2) Why do we enjoy painful experiences in art (e.g. horror and tragedy)? Is it a matter of catharsis (an expunging of one's passions vicariously through the misfortunes of fictional others) or perhaps it is based in the relief one might feel at one's own safe distance from the tragic events? Aristotle, Longinus, Burke, Hume and contemporary philosophers like Cynthia Freeland will help us consider the possible answers to this question through a study of film. 3) Do we need to know about the artist's intention independently of what is evident in the artwork in order to appreciate the artwork? We will consider various theories of interpretation, including those by Arthur Danto and Peter Lamarque. Examples will be taken from literature and visual art.

Honours

PHIL 4401

Honours Philosophy

- 24 units - full year
- Prerequisite: UG degree, credit average in courses contributing to a major in Philosophy or equiv. approved by Head of Discipline
- Assessment: 3 x 5000-6000 word essays, 15000-18000 word thesis

Prospective Honours students are advised that at least one Honours option must be in a metaphysics/ epistemology area, and at least one in a moral/social area; so that students should have included at least 4 units from each area in second or third year courses as preparation. This should be discussed with the Honours coordinator in third year. Honours Philosophy is organised jointly with the Philosophy Department at Flinders University and some courses will be offered by that Department.

The Honours program comprises three semester-length courses and a thesis. Prospective Honours students should consult with the Honours Coordinator before the end of January.

The Philosophy Discipline also offers specialist Honours programs in Logic and Cognitive Science. Entry requirements differ from those specified above. For further information consult the Honours Coordinator.

Physics

Level I

PHYSICS 1002

Astronomy I

- 3 units - semester 1
- 3 lectures, 1 tutorial per week; practical work: evening session on campus for observation of moon, 3 evening sessions of astronomical computing exercises
- Assessment: exam, practical work, essay

This course is primarily for students who wish to obtain an overall view of contemporary astronomy and our place in the astronomer's universe. Historical introduction. Modern astronomical instruments. The solar system, structure, dimensions, orbits, theories of origin. Sun-system relations, individual planets, spacecraft results and minor members of the system. Stars, stellar distances, types of stars, variable stars, star clusters, the Milky Way, stellar evolution. Galaxies, galactic distance scale, radioastronomy, space astronomy, cosmology.

PHYSICS 1003

Physics IHE

- 3 units - semester 2
- 3 lectures, 1 tutorial per week; 5 x 3 hour practicals
- Prerequisite: C&ENVENG 1001 Statics, MATHS 1011 Mathematics IA or MATHS 1013 Mathematics IMA (on application to Head of Discipline)
- Corequisite: MATHS 1012 Mathematics IB or MATHS 1014 Mathematics IMB (on application to Head of Discipline)
- Restriction: PHYSICS 1000A/B Physics I, PHYSICS 1100 Physics IA, PHYSICS 1200 Physics IB
- Eligibility: B. E. students only
- Assessment: written exam, tutorial work, practical work

Rigid body mechanics: centre of mass, rotational motion, torque, angular momentum, equilibrium, oscillations. Waves and Optics: transverse and longitudinal waves, superposition, interference, standing waves, Fourier decomposition, Fermat's principle, geometric optics, physical optics, interference, Michelson interferometers, thin film interference, diffraction, resolution of telescopes. Relativity and Quantum Physics: kinematics, time dilation, length contraction, Lorentz transformations, transformation of velocities, relativistic momentum and energy, X-rays as waves and photons, photoelectric and Compton effects, pair production, de Broglie waves, uncertainty principle, the quantum mechanical wave function.

PHYSICS 1005

Physics, Ideas and Society I

- 3 units - semester 2
- 2 lectures, 1 tutorial per week
- Assessment: essays, tutorial work

This course is non-mathematical in character and no previous knowledge of physics is assumed. It is intended primarily for students of the humanities and social sciences and is taught in the style of those disciplines. Physics, Ideas and Society I is designed to provide an understanding of some of the principal currents of thought in physics and of the scientific background to some of the philosophical, political and social issues that confront society.

Topics to be selected from the following - physics and its laws; the fundamental constituents of matter, people, energy and the earth; space, time and relativity; the universe.

PHYSICS 1007

Space Science and Astrophysics I

- 3 units - semester 1
- 3 lectures, 3 hours experimental/observational work per week
- Eligibility: B.Sc.(Space Science & Astrophysics) students only
- Restriction: PHYSICS 1002 Astronomy I
- Assessment: exam, practical work.

This course provides an overall view of contemporary astronomy and our place in the astronomer's universe. Historical introduction. Modern astronomical instruments. The solar system, structure, dimensions, orbits, theories of origin. Sun-system relations, individual planets, spacecraft results and minor members of the system. Stars, stellar distances, types of stars, variable stars, star clusters, the Milky Way, stellar evolution. Galaxies, galactic distance scale, radioastronomy, space astronomy, cosmology.

PHYSICS 1008

Physics Principles and Applications I

- 3 units - semester 1
- 35 lectures, 11 tutorials, 5 x 3 hour practical sessions per semester
- Assumed knowledge: SACE Stage 2 Mathematical Methods or equivalent
- Restriction: PHYSICS 1100 Physics IA, PHYSICS 1101 Physics for the Life and Earth Sciences IA; SACE Stage 2 Physics Subject Achievement score of at least 13 (or equiv)
- Assessment: written exam, tutorial work, practical work

This course provides an introduction to some of the principles of physics and their applications in agricultural and biological sciences. It is intended for students who have not studied SACE Stage 2 Physics, and who require familiarity with these principles and applications in their other studies. The course introduces concepts of force, energy, thermal physics, fluids and DC electricity. Students who pass this course and have completed SACE Stage 2 Mathematical Studies (or equiv.) may enrol in the semester 2 course PHYSICS 1102 Physics for the Life and Earth Sciences IB.

PHYSICS 1100

Physics IA

- 3 units - semester 1
- 3 lectures, 1 tutorial per week; 5 three-hour practicals
- Prerequisite: SACE Stage 2 Physics, Mathematical Studies, Specialist Mathematics - in exceptional circumstances, high achieving students who have not completed Specialist Mathematics may be granted exemption on application to Head of Discipline
- Corequisite: MATHS 1011 Mathematics IA. Students may be permitted to enrol in Physics IA concurrently with MATHS 1013 Mathematics IMA on application to Head of Discipline
- Restriction: PHYSICS 1101 Physics for the Life and Earth Sciences IA, PHYSICS 1000A/B Physics I
- Assessment: written exam, tutorial work, practical work

This calculus-based course is the foundation for a major in physics, and also provides a quantitative understanding of physics concepts applicable in biological and geological sciences.

Measurement and uncertainties. Particle mechanics: Newton's law of motion, gravitation, work, energy, conservative forces, momentum, collisions. Thermal physics: heat, temperature, internal

energy, kinetic theory of gases, thermodynamic processes. Electricity and magnetism: charge and current, electric field, Ohm's Law, DC circuits, Coulomb and Gauss' laws, electrostatics, capacitance, magnetic field, Ampere and Faraday's laws, inductance, LC circuits.

PHYSICS 1101

Physics for the Life and Earth Sciences IA

- 3 units - semester 1
- 3 lectures, 1 tutorial per week; approx. 4 x 3 hour practicals
- Prerequisite: SACE Stage 2 Physics, Mathematics Studies - other students may apply to Head of Discipline for exemption
- Restriction: PHYSICS 1000A/B Physics I, PHYSICS 1100 Physics IA, PHYSICS 1001A/B Physics for the Life and Earth Sciences I
- Assessment: written exam, tutorial work, practical work

This course provides an introduction to physics at university level for students who wish to major in biological or earth sciences (Physics IA/B and Mathematics IA/B are recommended for students interested in Biophysics or Geophysics). It includes significant material not in SACE Stage 2 Physics or Physics I. The emphasis is on physics concepts and their application to relevant problems in the earth and biological sciences rather than on the more theoretical or mathematical development of the concepts. It includes a study of forces and equilibrium, mechanical stress, energy, fluids, heat and DC electricity. Applications to biology and physiology will be emphasised.

PHYSICS 1200

Physics IB

- 3 units - semester 2
- 3 lectures, 1 tutorial per week; 5 x three hour practicals
- Assumed Knowledge: MATHS 1011 Mathematics IA or MATHS 1013 Mathematics IMA and PHYSICS 1100 Physics IA
- Corequisite: MATHS 1012 Mathematics IB - students may be permitted to enrol in Physics IB concurrently with MATHS 1014 Mathematics IMB on application to Head of Discipline
- Restriction: PHYSICS 1001/A/B Physics for the Life and Earth Sciences I, PHYSICS 1000A/B Physics I, PHYSICS 1201 Physics for the Life and Earth Sciences IB, PHYSICS 1003 Physics IHE
- Assessment: written exam, tutorial work, practical work

This calculus-based course completes the Level I sequence for a major in physics, and also provides a quantitative understanding of physics concepts applicable in biological and geological sciences.

Rigid body mechanics: centre of mass, rotational motion, torque, angular momentum, equilibrium, oscillations Waves and Optics: transverse and longitudinal waves, superposition, interference, standing waves, Fourier decomposition, Fermat's principle, geometric optics, physical optics, interference, Michelson interferometers, thin film interference, diffraction, resolution of telescopes. Relativity and Quantum Physics: kinematics, time dilation, length contraction, Lorentz transformations, transformation of velocities, relativistic momentum and energy, X-rays as waves and photons, photoelectric and Compton effects, pair production, de Broglie waves, uncertainty principle, the quantum mechanical wave function.

PHYSICS 1201

Physics for the Life and Earth Sciences IB

- 3 units - semester 2
- 3 lectures, 1 tutorial per week; about 4 x 3 hour practicals
- Prerequisite: SACE Stage 2 Physics, Mathematical studies - other students may apply to Head of Discipline for exemption
- Assumed Knowledge: PHYSICS 1101 Physics for the Life and Earth Sciences IA
- Restriction: PHYSICS 1200B Physics IB, PHYSICS 1001A/B Physics for the Life and Earth Sciences I, PHYSICS 1000 A/B Physics I
- Assessment: written exam, tutorial work, practical work

This course provides an introduction to sensing and imaging as applied to biological systems and earth science. It is intended to provide a background in physics at university level for students who wish to major in biological sciences (Physics I and Mathematics I are recommended for students interested in Biophysics or Geophysics). The emphasis is on physics concepts and their application to relevant problems rather than on the more theoretical or mathematical development of concepts. It includes a study of geometric and physics optics, electricity and magnetism, X-rays and radioactivity.

Level II

PHYSICS 2001

Classical Mechanics II

- 2 units - semester 1
- 2 lectures a week, 1 tutorial a fortnight
- Prerequisite: either PHYSICS 1000A/B Physics I (Pass Div I) or PHYSICS 1100 Physics IA & PHYSICS 1200 Physics IB, either MATHS 1011 Mathematics IA & MATHS 1012 Mathematics IB (Pass Div 1) or MATHS 2004 Mathematics IIM (Pass Div 1) - other students may apply to Head of Discipline for exemption
- Corequisite: APP MTH 2007 Differential Equations II and either APP MTH 2006 Methods in Applied Mathematics II or APP MTH 2002 Vector Analysis and Complex Analysis II
- Assessment: class exercises, exam

Newton's laws. Conservation laws, central forces, non-inertial reference frames.. Many particle systems, rigid bodies, moment of inertia tensor, angular momentum, Euler's equations.

PHYSICS 2002

Classical Fields and Mathematical Methods II

- 2 units - semester 2
- 2 lectures a week, 1 tutorial a fortnight
- Prerequisite: either MATHS 1011 Mathematics IA & MATHS 1012 Mathematics IB (Pass Div 1) or MATHS 2004 Mathematics IIM (Pass Div 1), APP MTH 2007 Differential Equations II, either APP MTH 2006 Methods in Applied Mathematics II or APP MTH 2002 Vector Analysis and Complex Analysis - other students may apply to Head of Discipline for exemption
- Assumed Knowledge: PHYSICS 1100 Physics IA and PHYSICS 1200 Physics IB
- Restriction: PHYSICS 2000A/B Physics II in 2002 and 2003
- Assessment: class exercises, 2 hour exam, tests

Scalar and vector field concepts, derivatives of fields, line, surface and volume integrals, curvilinear coordinates, Gauss' and Stokes' theorems. Gauss' law. Poisson's equations, electrostatics and method of images, boundary value problems, vectors and tensors.

PHYSICS 2004

Introductory Quantum Mechanics and Applications II

- 2 units - semester 1
- 24 lectures, 8 tutorials
- Prerequisite: either PHYSICS 1000A/B Physics I (Pass Div I) or PHYSICS 1100 Physics IA and PHYSICS 1200 Physics IB, either MATHS 1011 Mathematics IA & MATHS 1012 Mathematics IB (Pass Div I) or MATH 2004 Mathematics IIM (Pass Div I) - other students may apply to Head of Discipline for exemption
- Corequisite: APP MTH 2007 Differential Equations II; either APP MTH 2006 Methods in Applied Mathematics II or APP MTH 2002 Vector Analysis and Complex Analysis
- Restriction: PHYSICS 2000A/B Physics II, PHYSICS 2100 Physics IIA
- Assessment: exam; assignments, tests

Wave mechanics with examples from atomic, sub-atomic and solid state physics. Photons, Compton scattering, de Broglie hypotheses, Heisenberg Uncertainty Principle, probability distributions, probability density, plane waves, expectation values, operators, commutators, Schroedinger equation, energy quantisation, particle in one- and three- dimensional box, eigenstates and degeneracy, parity, compatible observables, polarised light, measurement, probability flux, one-dimensional bound states and scattering, barrier penetration, Pauli principle, field emission, alpha decay, scanning tunnelling microscope, Fermi energy, Fourier analysis and momentum space, harmonic oscillator, raising and lowering operators.

PHYSICS 2007

Environmental Physics II

- 4 units - semester 2
- 3 lectures, 1 tutorial, 3 hours practical work per week
- Prerequisite: 6 units of laboratory based Level I Science
- Assessment: exam, laboratory, project work.

Environmental Physics aims to provide tools and skills derived from the physicists view of the environment, and to provide guidance in their use in understanding the physical world. The topics covered are selected from the following areas:- The Basic Components of Physics including topics from: Fluid Dynamics; Diffusion; Optics and Thermodynamics. Elementary Atomic and Nuclear Physics. Elementary Spectroscopy including topics from: The Solar Spectrum; The Interaction of Light and Matter, and the Spectroscopy of Atmospheric Gases and Biomolecules. The Ozone Filter, The Scattering of Light, The Global Energy Balance, The Greenhouse Model, Elements of Weather and Climate, Energy for Human Use including: Heat transfer, Heat Engines, Energy Storage and Transport, Renewable Energy Resources and Nuclear Energy. The Transport of Pollutants including topics from, Diffusion, Fluid Flow, Turbulence and Plumes in the Air. Noise including Basic Acoustics and the Control of Sound. Teaching is through lectures, laboratory and project work.

PHYSICS 2008

Physics, Ideas and Society II

- 4 units - semester 2
- 2 lectures, 1 tutorial per week
- Prerequisite: 6 units Level I Humanities/Social Sciences
- Restriction: PHYSICS 1005 Physics, Ideas and Society I
- Assessment: essays, tutorial presentations, tutorial participation

This course is non-mathematical in character and no previous knowledge of physics is assumed. It is intended primarily for students of the humanities and social sciences and is taught in the style of those disciplines. Physics, Ideas and Society II is designed to provide an understanding of some of the principal currents of thought in physics and of the scientific background to some of the philosophical, political and social issues that confront society.

Topics to be selected from the following - physics and its laws; the fundamental constituents of matter, people, energy and the earth; space, time and relativity; the universe.

PHYSICS 2009

Photonics II

- 2 units - semester 2
- 1 lecture, three hour practical per week, 1 tutorial per fortnight
- Prerequisite: either PHYSICS 1000A/B Physics I or PHYSICS 1100 Physics IA & PHYSICS 1200 Physics IB; PHYSICS 2100 Physics

IIA; either MATHS 1011 Mathematics IA & MATHS 1012 Mathematics IB (Pass Div 1) or MATHS 2004 Mathematics IIM (Pass Div 1) - other students may apply to Head of Discipline for exemption

- Corequisite: PHYSICS 2200 Physics IIB
- Assessment: exam, continuous assessment of laboratory work and a formal laboratory report

This course will introduce students to the fundamental physics of modern optical and photonic technology. Optical fibres and waveguides. Fundamental properties of light. Electron energy bands in semiconductors and the implications of direct and indirect bandgaps. Light emitting and laser diodes and LEDs. Excitons. Quantum confinement including quantum dots, wires and wells. Characteristics of Bragg gratings.

PHYSICS 2010

Space Science and Astrophysics II

- 4 units - semester 2
- 3 lectures per week, 1 tutorial per fortnight, 20 hours experimental work
- Eligibility: B.Science (Space Science and Astrophysics) and B.Engineering (Aerospace Engineering) students only
- Prerequisite: PHYSICS 1003 Physics IHE & C&ENVENG 1001 Statics & ELEC ENG 1005 Electrical Systems AM, or PHYSICS 1000A/B Physics I or PHYSICS 1100 Physics IA & PHYSICS 1200 Physics IB; either MATHS 1011 Mathematics IA & MATHS 1012 Mathematics IB (Pass Div I) or MATHS 2004 IIM (Pass Div I)
- Corequisite: PHYSICS 2200 Physics IIB
- Assumed Knowledge: PHYSICS 1002 Astronomy I or PHYSICS 1007 Space Science and Astrophysics I
- Assessment: exam, practical work

Protostars and star formation; stellar interiors and atmospheres; planetary systems; planetary atmospheres; introduction to the heliosphere; introduction to the terrestrial ionosphere and magnetosphere, and the local space environment; comets and meteors.

PHYSICS 2100

Physics IIA

- 4 units -semester 1
- 3 lectures, 1 tutorial and 1 four-hour practical per week
- Prerequisite: either PHYSICS 1000A/B Physics I (Pass Div 1) or PHYSICS 1100 Physics IA & PHYSICS 1200 Physics IB; either MATHS 1011 Mathematics IA & MATHS 1012 Mathematics IB (Pass Div 1) or MATHS 2004 Mathematics IIM (Pass Div 1) - other students may apply to Head of Discipline for exemption
- Corequisite: APP MTH 2007 Differential Equations II; either APP MTH 2006 Methods in Applied Mathematics II or APP MTH 2002 Vector Analysis and Complex Analysis
- Restriction: PHYSICS 2004 Introductory Quantum Mechanics and Applications I, PHYSICS 2000A/B Physics II
- Assessment: written exam, tests and practical work

Quantum Mechanics - content as for PHYSICS 2004 Introductory Quantum Mechanics with Applications II. Optics - geometrical and physical optics, ray tracing, aberrations, polarisation, Fraunhofer diffraction. Practical work - instrumentation, general physics, modern physics.

PHYSICS 2200

Physics IIB

- 4 units - semester 2
- 3 lectures, 1 tutorial , 4 hour practical per week
- Prerequisite: either APP MATH 2006 Methods in Applied Mathematics II or APP MATH 2002 Vector Analysis and Complex Analysis & APP MATHS 2007 Differential Equations II - other students may apply to Head of Discipline for exemption
- Assumed Knowledge: PHYSICS 2100 Physics IIA, PHYSICS 2001 Classical Mechanics II
- Restriction: PHYSICS 2000A/B Physics II
- Assessment: written exam, tests and practical work

Thermodynamics: equilibrium, 1st and 2nd laws, entropy, applications. Statistical physics: Maxwell-Boltzmann distribution, quantum statistics, Bose-Einstein statistics, Fermi-Dirac statistics. Electromagnetism: electrostatics, magnetostatics, electric and magnetic fields in media, Faraday's Law, Maxwell's equations. Practical work: electromagnetism and projects.

Level III

PHYSICS 3000

Computational Physics III

- 2 units - semester 2
- 2 lectures, 1 hour tutorial per fortnight
- Prerequisite: either PHYSICS 2000A/B Physics II or PHYSICS 2100 Physics IIA or PHYSICS 2004 Introductory Quantum Mechanics & Applications II & APP MATHS 2007 Differential Equations II - other students may apply to Head of Discipline for exemption
- Assumed Knowledge: APP MTH 1000 Scientific Computing or COMP SCI 1002A/B Computer Science I or equivalent
- Assessment: assignments, exam

This is a hands-on course which provides an introduction to computational methods in solving problems in physics using the package Mathematica. It teaches programming procedures such as logical statements, conditional statements, loops and modules and covers basic mathematical methods such as root finding, integration and solving differential equations, together with methods

of linear algebra, both approximately and exactly (i.e. symbolically). These computational methods are applied to problems in physics, including the modelling of classical physical systems and to quantum mechanics, as well as to data analysis such as linear and nonlinear fits to data sets. Applications of high performance computing are included where possible, such as an introduction to parallel computing and also to visualization techniques.

PHYSICS 3001
Electromagnetism and Optics III

- 3 units - semester 1
- 35 lectures, 11 tutorials
- Prerequisite: PHYSICS 2100 Physics IIA, PHYSICS 2200 Physics IIB
- Assumed knowledge: APP MTH 2006 Methods in Applied Mathematics II or APP MTH 2002 Vector Analysis and Complex Analysis; concepts of electromagnetism, optics & quantum mechanics taught in Physics IIA/IIB
- Restriction: PHYSICS 3018 Electromagnetism III, PHYSICS 3019 Physical Optics III

Electrostatics, magnetostatics, vector potential and gauge transformations, Maxwell's equations, plane electromagnetic waves in free space, waveguides. Maxwells equations in matter, Poynting's theorem. Propagation of electromagnetic waves in vacuum: Hermite-Gaussian and Laguerre-Gaussian solutions of the wave equation, numerical beam propagation, Fresnel-Kirchhoff integral, Fresnel diffraction, Fraunhofer diffraction, Fourier optics, Array theorem, Abbe's theory of imaging, apodization, amplitude and phase spatial filtering, optical transfer function (OTF, MTF, PTF). Interaction of electromagnetic waves with solids: Lorentz electron oscillator model, propagation in isotropic dielectrics, dispersion, phase and group velocities, reflection/refraction at dielectric interfaces, propagation of light in anisotropic dielectrics, manipulation of polarization, Faraday effect, reflection of light at metal surfaces.

PHYSICS 3002
Experimental Physics III

- 3 units - semester 1
- 8 hours practical work per week
- Prerequisite: either PHYSICS 2000A/B Physics II or PHYSICS 2100 Physics IIA &PHYSICS 22200 Physics IIB - other students may apply to Head of Discipline for exemption
- Assessment: laboratory work, report on selected experiment, open & closed book tests

Laboratory experiments in selected areas including atomic and nuclear physics, optics, thin films and electromagnetism, plus a practical electronics course related to analogue circuits and operational amplifiers.

PHYSICS 3003
Mathematical Physics III

- 2 units - semester 1
- 2 lectures per week, approximately 1 tutorial per fortnight
- Prerequisite: MATHS 1007A/B Mathematics I (Pass Div I) or MATHS 2004 Mathematics IIM (Pass Div I) - other students may apply to Head of Discipline for exemption
- Assumed Knowledge: PHYSICS 2002 Classical Fields and Mathematical Methods II or equivalent; APP MTH 2007 Differential Equations II; either APP MTH 2006 Methods in Applied Mathematics II or APP MTH 2002 Vector Analysis and Complex Analysis; PURE MTH 2002 Algebra II; PURE MTH 2006 Real and Complex Analysis II
- Assessment: class exercises, exam

Vector spaces, linear operators, inner product spaces. Linear functionals, dual space, tensors, r-vectors. Grassmann algebra. Quaternions, Lie algebras and Lie groups. Continuous vector spaces, distributions, Fourier transforms, Green's functions for Laplace's equation and the wave equation.

PHYSICS 3004
Quantum Mechanics III

- 3 units - semester 1
- 3 lectures, approximately 1 tutorial per week
- Prerequisite: either PHYSICS 2000A/B Physics II or PHYSICS 2100 Physics IIA or PHYSICS 2004 Introductory Quantum Mechanics & Applications II & APP MATHS 2007 Differential Equations II - other students may apply to Head of Discipline for exemption
- Assessment: exam, class exercises, tests

This course introduces concepts essential for the understanding of quantum mechanics and the microscopic structure of matter. Review of principles and postulates of quantum mechanics. Mathematical formalism and Dirac bra-ket notation. Commuting observables, compatibility, and the Heisenberg uncertainty relations. Unitary transformations. Schroedinger equation and time evolution. Orbital angular momentum, spherical harmonics, and spatial rotations. Angular momentum, addition of angular momenta, and Clebsch-Gordon coefficients. Schroedinger equation in three dimensions. Separability and central forces spherical square well, hydrogen-like atoms, three-dimensional oscillator. Time-independent approximation methods Perturbation theory, variational methods, WKB approximation. Fine structure of hydrogen atom.

PHYSICS 3006

Advanced Dynamics and Relativity

- 3 units - semester 2
- 3 lectures, approximately 1 tutorial per week
- Prerequisite: either MATHS 1007A/B Mathematics I (Pass Div I) or MATHS 2004 Mathematics IIM (Pass Div I); PHYSICS 2002 Classical Fields and Mathematical Methods II or PHYSICS 2000A/B in 2002 and 2003; PHYSICS 2001 Classical Mechanics II - other students may apply to Head of Discipline for exemption
- Assessment: class exercises, exam

Mechanics:Lagrangian mechanics, variational techniques, conservation laws, Noether's theorem, small oscillations, Hamiltonian mechanics, Poisson brackets. Relativity: space-time vectors and tensors, relativistic mechanics, electrodynamics; field-strength tensor, Lienard-Wiechert potentials.

PHYSICS 3007

Introduction to Physics Research III

- 2 units - semester 2
- 10 lectures, 12 seminars, 5 hours tutorials, 20 hours project work
- Prerequisite: 6 units Level III Physics, 4 units Level II Mathematics,
- Assumed knowledge: physics concepts and methods developed in studies of physics at Level III, mathematics at Level II
- Assessment: exam, tutorials, assignments

This course develops skills and knowledge related to the practice of physics research. It includes an introduction to research practice employed in physics laboratories, an examination of the operation of some physics laboratories through the attendance at departmental research talks, the development of oral and written presentation skills, and a project.

PHYSICS 3008

Physics of Solid State Devices

- 2 units - semester 2
- 2 lectures, approximately 1 tutorial, 1 computer lab per week
- Prerequisite: either PHYSICS 2000A/B Physics II or PHYSICS 2100 Physics IIA and PHYSICS 2200 Physics IIB - other students may apply to Head of Discipline for exemption
- Assessment: assignments, exam

Physics of solid-state devices: introduction to crystal structures, lattices, energy bands, band-gap engineering, material growth, current carriers, carrier transport: drift, diffusion, generation and recombination, pn junctions, Zener and avalanche breakdown. Devices: PIN photodiodes; short-base and long-base diodes, a brief introduction to heterojunctions and 2-DEG devices; ohmic and non-ohmic Schottky junctions; JFETs, MESFETs, MISFETs, MOSFETs, CMOS, and BJTs; Ebers-Moll equations; heterojunction BJTs.

PHYSICS 3009

Statistical Mechanics III

- 2 units - semester 2
- 2 lectures per week, approx. 1 tutorial per fortnight
- Prerequisite: PHYSICS 1000A/B Physics I (Pass Div I) or PHYSICS 1100 Physics IA & PHYSICS 1200 Physics IB, & MATHS 1007A/B Mathematics I (Pass Div I) or MATHS 2004 Mathematics IIM (Pass Div I) - other students may apply to Head of Discipline for exemption
- Assumed Knowledge: PHYSICS 2000A/B Physics II or PHYSICS 2100 Physics IIA & PHYSICS 2200 Physics IIB
- Assessment: exam, assignments

This course introduces concepts essential for the understanding of both classical and quantum statistical mechanics. Topics covered include the classical laws of thermodynamics and their application, postulates of statistical mechanics, statistical interpretation of thermodynamics, microcanonical, canonical and grand canonical ensembles. The methods of statistical mechanics are then used to develop the statistics for Bose-Einstein, Fermi-Dirac and photon gases. Selected topics from low temperature physics and electrical and thermal properties of matter will be discussed.

PHYSICS 3016

Education in Physics with Industrial Cooperation A

- 4-5 months full-time work on a project in industry - semester 2, Year 3

PHYSICS 3017

Education in Physics with Industrial Cooperation B

- 4-5 months full-time work on a project in industry - semester 1, Year 4

The Department offers a program whereby students enrolled in third year of the B.Sc. or B.Sc. (Optics and Photonics) or B.Sc. (Space Science and Astrophysics) who have achieved an average credit level in Levels 1 and 2 and at least credit in PHYSICS 2000A/B Physics II, can apply to enrol in a cooperative program with industry. The student receives financial support provided by the industry. The EPIC A and EPIC B projects must be different, and are jointly agreed by the Department of Physics and the industrial partner. A written report must be prepared on each project and approved by both the industrial partner and the Department. The performance of each student will be monitored by a committee within the Department. Unsatisfactory work reports or course grades may result in the student leaving the EPIC program.

PHYSICS 3019

Physical Optics III

- 2 units - semester 1
- 3 lectures per week, 1 tutorial per fortnight/approximately 8 weeks
- Eligibility: B.E.(Electrical & Electronic)/B.Sc.(Physics) students only
- Prerequisite: either PHYSICS 2000A/B Physics II or PHYSICS 2100 Physics IIA & PHYSICS 2200 Physics IIB - other students may apply to Head of Discipline for exemption
- Assumed Knowledge: PHYSICS 3018 Electromagnetism III, Electromagnetism part of PHYSICS 3001 Electromagnetism and Optics III
- Restriction: PHYSICS 3001 Electromagnetism and Optics
- Assessment: exam, continuous assessment of tutorial work

Lorentz electron oscillator model, microscopic theory of refractive index and dispersion, optics of dielectrics and metals, Kramers-Kronig relations, Maxwell's equations and EM waves in free space; Fresnel equations, reflection and refraction of EM waves at interfaces; diffraction theory, Fresnel and Fraunhofer diffraction; Fourier optics, spatial filtering.

PHYSICS 3020

Photonics III

- 2 units - semester 2
- 2 lectures per week, approx. 1 tutorial per fortnight
- Prerequisite: either PHYSICS 2000A/B Physics II or PHYSICS 2100 Physics IIA & PHYSICS 2200 Physics IIB; PHYSICS 2009 Photonics II - others may apply to Head of Discipline for exemption
- Assessment: exam, continuous assessment of tutorial work

Interaction of light with matter, time dependent perturbation theory, stimulated and spontaneous emission and absorption, stability of resonators, mode matching, advanced laser resonators, macroscopic description of the gain medium, rate equations, gain saturation and broadening, hole burning, MOPA's, CW lasers, optimum output coupling, injection-locking, frequency stabilization, pulsed lasers, gain switching, Q-switching, injection-seeding, transform limit, pulse chirping, mode-locked lasers, semiconductor lasers, fibre lasers, fibre Bragg gratings, fibre couplers, WDM's. Lasers: ruby, chemical, solid state, dye, excimer, ion, CO2. Laser safety.

PHYSICS 3022

Applied Quantum Mechanics III

- 2 units - semester 2
- 24 lectures, 6 tutorials
- Prerequisite: PHYSICS 3004 Quantum Mechanics III
- Assumed knowledge: PHYSICS 2004 Introductory Quantum Mechanics and Applications II, or PHYSICS 2100 Physics IIA, understanding of concepts developed in Quantum Mechanics III
- Restriction: PHYSICS 3005 Advanced Quantum Mechanics

This course studies applications and advanced topics in quantum mechanics. It reviews the postulates and formalism of quantum mechanics before examining the roles of angular momentum, symmetries, parity, and the conservation laws. The Heisenberg and Schroedinger pictures of quantum mechanics are examined. Feynman path integrals are discussed.

Applications include the harmonic oscillator and the effect of periodic potentials, leading to Bloch wave functions and an introduction to solid state physics. Time-dependent perturbation theory is examined, as is Fermi's Golden rule. A study of the interaction of quantum systems with radiation leads to lasers and masers, and magnetic resonance. The study of scattering from a spherical potential is introduced. Concepts common to a fundamental understanding of atomic physics and the nuclear shell model are discussed.

PHYSICS 3023

Space Science and Astrophysics III

- 3 units - semester I
- 35 lectures, 11 tutorials
- Prerequisites: PHYSICS 2100 Physics IIA, PHYSICS 2200 Physics IIB
- Assumed Knowledge: thermodynamics, electromagnetism, quantum mechanics and optics as taught in Physics IIA/B
- Restrictions: PHYSICS 3013 Astrophysics III, PHYSICS 3014 Atmospheric & Environmental Physics III

A survey of the universe at all scales and all wavelengths. A brief discussion of stellar astrophysics. Radiative transfer in the sun-earth system. Thermodynamics of the atmosphere, including cloud physics, atmospheric motions and circulation. Introduction to the roles of aerosols and minor atmospheric constituents such as water vapour, carbon dioxide and ozone. The impact of anthropogenic processes. The interstellar and intergalactic medium including magnetic fields. Introduction to astrophysical plasmas and their study, including the ionosphere. High energy astrophysics including an introduction to cosmic ray physics and processes studied at radio, x-ray and gamma-ray energies.

Honours

PHYSICS 4000

Honours Physics

- 24 units - full year
- Potential participants are advised to see Head of Discipline as soon as possible, preferably before enrolling for third year - in exceptional circumstances it is possible to take honours over two years - see B.Sc. Academic Program Rule 5.7.4
- Prerequisite: major in Physics or Theoretical Physics, preferred background is double major in Physics - approval of Head of Discipline required for entry into Honours

It is possible to take Honours in either experimental or theoretical physics. The Honours program may include lecture programs on astrophysics, atmospheric physics, atomic and molecular physics, cosmology, differential geometry, electrodynamics, experimental methods, gauge field theories, general relativity, lasers and nonlinear optics, many-body theory, nuclear radiation physics, nuclear theory and particle physics, relativistic quantum mechanics, quantum field theory, statistical mechanics/many-body theory.

Each student will also be expected to undertake a substantial experimental or theoretical research project on which a report will be prepared. Full details may be obtained by application to the Head of Discipline

PHYSICS 4001

Honours Mathematical Physics

- 24 units - full year
- Students considering this course should see the Head of Discipline as soon as possible, preferably before enrolling in third year
- Prerequisite: at least satisfactory standard in five Level III Mathematical Physics courses, and other Level III Science or Mathematical Sciences courses
- Assessment: exams, project

The lecture program is determined from year to year. Students will be required to make a selection from courses offered by the Disciplines of Physics and Mathematical Physics and Pure and Applied Mathematics. Honours topics from other departments in the School of Mathematical and Computer Sciences, and from the Schools of Information Science and Technology at Flinders University of South Australia may be considered appropriate. Lectures will include the following courses: general theory of relativity, relativistic quantum mechanics, quantum field theory, many-body theory, statistical mechanics, theoretical nuclear and particle physics.

Each student will be assigned a supervisor who will advise on the choice of lecture program and give guidance in the writing of a project on some topic in mathematical physics, to be approved in advance by the Head of the Discipline of Physics.

Physiology

Level II

PHYSIOL 2003

Human Physiology IIA: Heart, Lungs and Circulation

- 4 units - semester 1
- 3 lectures, 1 tutorial, 4hours practical per week
- Available for Non-Award study
- Prerequisite: pass in at least 6 units of Level I Chemistry or Biology
- Assumed Knowledge: Level I Chemistry, Biology, Physics
- Restriction: either PHYSIOL 2001A/B Human Physiology II (Biomedical Science) or PHYSIOL 2101 Human Physiology IIA (Biomedical Science) or PHYSIOL 2000A/B Human Physiology II
- Assessment: written exams, practical assessments

This foundation course in mammalian physiology considers the function and regulation of the cardiovascular and respiratory systems and how these systems adapt to changes including exercise, severe blood loss, and stress. All components of the course focus on developing in the students the skills and knowledge required from a graduate scientist. For the practical program, students, working in groups, participate in a semester-length research project which includes the generation of the hypothesis, preparation of a background literature review, the collection and analysis of the necessary data, and presentation of the findings in a report written in the format of an article for a scientific journal. During the tutorial sessions, students will discuss situations, generally derived from recent research papers, which provide the opportunity for them to integrate the information that they have obtained through the lecture and practical sessions and to develop skill in interpreting research literature.

PHYSIOL 2004

Human Physiology IIB: Homeostasis and Nervous System

- 4 units- semester 2
- 3 lectures, 1 tutorial, 4 hours practical per week
- Available for Non-Award study
- Prerequisite: pass in at least 6 units of Level 1 Chemistry Biology
- Assumed Knowledge: PHYSIOL 2003 Human Physiology IIA; Level I Chemistry; Level I Biology; Level I Physics
- Restriction: PHYSIOL 2001 Human Physiology II (Biomedical Science) or previously offered courses with significant overlap
- Assessment: written exams, practical assessments

This course extends the knowledge and skills developed in Human Physiology IIA. The role of the kidney in maintaining fluid and ion levels in the body, which is responsible for the regulation of blood pressure, for avoiding dehydration, for maintaining bone, and many other essential aspects of physiology, and the role of the gastrointestinal tract in providing nutrition to the body are considered. The two control systems in the body, the hormones and the brain, are major topics for this semester. For the practical program, students, working in groups, participate in a semester-length research project which includes the generation of the hypothesis, preparation of a background literature review, the collection and analysis of the necessary data, and presentation of the findings in the form of a scientific conference poster prepared with desk top publishing software. During the tutorial sessions, students will discuss situations, generally derived from recent research papers, which provide the opportunity for them to integrate the information that they have obtained through the

lecture and practical sessions and to develop skill in interpreting research literature.

PHYSIOL 2101

Human Physiology IIA (Biomedical Science)

- 4 units - semester 1
- 3 lectures, 1 tutorial, 4 hours practical per week
- Eligibility: B.Science (Biomedical Science) students only
- Prerequisite: 6 units of Level 1 Chemistry, BIOLOGY 1101/1102 Biology I: Molecules, Genes and Cells and BIOLOGY 1201 Biology I: Human Perspectives
- Assumed Knowledge: Level 1 Physics, Chemistry or Biology
- Restriction: PHYSIOL 2003 Human Physiology IIA: Heart, Lungs & Circulation or previously offered courses with significant overlap
- Assessment: end of semester written exam, practical assessments

Physiology is the study of the function of the human body. The components of this course are designed to develop the skills and attributes of a research scientist in the biomedical sciences. The major lecture topics covered in this course are cellular physiology, the autonomic nervous system, and the cardiovascular and respiratory systems. There is a particular focus on considering how the cardiovascular and respiratory systems adapt to normal and abnormal change including exercise, severe blood loss, and stress. In the practical program, students undertake a semester length human-based research project that includes the generation of a hypothesis, a review of the relevant research literature, the collection and analysis of the data necessary to test the hypothesis, and the presentation of the results in a report written in the format of a scientific journal article. Tutorials will take the form of journal clubs, where students discuss in a structured fashion published research articles, which are selected to reinforce the physiology covered in lectures as well as developing the students' critical skills.

PHYSIOL 2201

Human Physiology IIB (Biomedical Science)

- 4 units - semester 2
- 3 lectures, 1 tutorial, 4 hours practical per week
- Eligibility: B.Science (Biomedical Science) students only
- Prerequisite: 6 units Level 1 Chemistry and BIOLOGY 1101/1102 Biology I: Molecules, Genes and Cells and BIOLOGY 1201 Biology I: Human Perspectives
- Assumed Knowledge: PHYSIOL 2101 Human Physiology IIA (Biomedical Science); Level 1 Biology, Chemistry, Physics
- Restriction: PHYSIOL 2003 Human Physiology IIB: Homeostasis & the Nervous System or previously offered courses with significant overlap
- Assessment: end of semester written exam, practical assessments

Physiology is the study of the function of the human body. The components of this course are designed to develop the skills and attributes of a research scientist in the biomedical sciences. The major lecture topics covered in this course are the renal gastrointestinal, hormone and central nervous systems. The two control systems in the body, the hormones and the brain, are major topics. In the practical program, students undertake a semester length research project that introduces them to one of the active research areas in Physiology. Students plan and carry out a human-based research project under the supervision of researchers. Tutorials will take the form of journal clubs, where students discuss in a structured fashion published research articles, which are selected to reinforce the physiology covered in lectures as well as developing the students' critical skills.

Level III

PHYSIOL 3000

Advanced Systems Physiology

- 6 units - semester 2
- 3 lectures, 2 four-hour practicals a week
- Available for Non-Award study
- Prerequisite: 8 units of Level 2 Physiology
- Restriction: PHYSIOL 3102 Human Physiology IIIB (Biomedical Science) or equivalents
- Assessment: 3 written exams, research project - components include laboratory performance, background literature survey, research proposal & critique of published scientific manuscript

This course is designed to challenge and to stimulate your interest in areas of molecular, cellular and systems physiology in which there have been recent rapid and important advances. The research focused lecture stream offers a series of interrelated modules covering the following main topics: the physiology of energy balance and the pathophysiology of obesity and diabetes; cardiorespiratory function, the impressive integration that occurs within the cardiorespiratory system during exercise and the impact of endurance training; the range of physiological mechanisms which may contribute to the development of high blood pressure, heart arrhythmias and heart failure; the integrative physiology of the endocrine stress response; growth and development with a focus on the recent 'Early Origins of Adult Disease' hypothesis which highlights the association between being small at birth and an increased incidence of the metabolic syndrome in adult life. The research practical stream aims to provide students with an introduction to 'hands on' research and the research projects are supervised by trained researchers and supported by a series of workshops and tutorials. Students work in small groups and have access to equipment appropriate for investigations into a current research question in a professional research environment.

PHYSIOL 3001
Neurobiology III

- 6 units - semester 1
- 3 hours lectures, 4 hours practical, 4 hours workshop per week
- Available for Non-Award study
- Prerequisite: 8 units level 2 Physiology
- Restriction: PHYSIOL 3102 Human Physiology IIA (Biomedical Science) or equivalents
- Assessment: exams, essays

This course consists of 2 streams, namely: Advanced Neurobiology and Physiology in Action. The Advanced Neurobiology stream of this course broadly encompasses the study of central nervous system function with emphasis on the neural control of human movement. Issues that will be covered in depth include special senses with particular emphasis on vision and hearing, advanced neuromuscular physiology with emphasis on the peripheral and central control of movement, biological rhythms and sleep. The Physiology in Action practical stream involves a research project supported by a series of workshops and tutorials which are designed to develop your research skill base. Students will be given the opportunity to read widely in chosen areas of the course and to review some research areas. Small-group discussion of specific research papers and research topics will be an important part of Physiology in Action.

PHYSIOL 3102
Human Physiology IIIA (Biomedical Science)

- 6 units - semester 1
- 3 lectures, 2 x 4 hour practicals a week
- Eligibility: B.Science (Biomedical Science) students only
- Prerequisite: 8 units Level 2 Human Physiology
- Restriction: PHYSIOL 3001 Neurobiology III or equivalents.
- Assessment: written exams for lecture streams; research project includes written assignments, evaluation of laboratory performance; for PBL, individual assessment of participation & understanding

This course is designed to challenge students with advanced subject material in physiology and experience in cutting edge research. The former is achieved in a research-focused lecture stream. The latter is derived in the Biomedical Research Unit, which consists of a two-semester practical project based in a working research laboratory and a problem based learning (PBL) component. Students use PBL to consider complex scientific issues, generate hypotheses, identify and prioritise related learning issues, gather relevant material and apply the new knowledge back to the problem.

PHYSIOL 3202
Human Physiology IIIB (Biomedical Science)

- 6 units - semester 2
- 3 hours lecture, 4 hours practical, 4 hours workshop per week
- Prerequisite: 8 units of Level 2 Physiology
- Restriction: PHYSIOL 3000 Advanced Systems Physiology or equivalents
- Assessment: written exams for lecture streams; research project includes written assignment, evaluation of laboratory performance; for PBL, individual assessment of participation & understanding

This course is designed to challenge students with advanced subject material in physiology and experience in cutting edge research. The former is achieved in a research-focused lecture stream. The latter is derived in the Biomedical Research Unit, which consists of a two-semester practical project based in a working research laboratory and a problem based learning (PBL) component. Students use PBL to consider complex scientific issues, generate hypotheses, identify and prioritise related learning issues, gather relevant material and apply the new knowledge back to the problem.

Honours

PHYSIOL 4000
Honours Physiology

- 24 units - full year
- Eligibility: approved honours students only
- Prerequisite: pass at standard satisfactory to Head of Discipline in appropriate Level III courses offered by Discipline of Physiology or acceptable alternative
- Assessment: presentation of two research seminars; laboratory performance; critique of scientific manuscript, written literature review, thesis & oral defence of thesis

Candidates are required to demonstrate an original and critical approach in the assimilation of current knowledge in an area of physiological research and engage in experimental work in this research field for a full academic year in the Discipline of Physiology or in an affiliated area under the general direction of the Head of the Discipline of Physiology. A handbook describing the range of research projects to be offered during the Honours year is available from The School of Molecular and Biomedical Science from October of the preceding year. Each project will be supervised by one or more members of the academic or affiliate staff who will provide the student with a series of key references for each particular research project. Students will also be expected to attend a series of Research Skills and Professional Development workshops held throughout the year.

Plant Science

Level I

PLANT SC 1001RW
Chemistry and Introductory Biochemistry A

- 3 units semester 1
- 2 lectures, 1 tutorial, 3 hours practical work a week
- Assumed Knowledge: SACE Stage I Chemistry
- Assessment: exam 70%, practicals 30%

A study of the chemistry and biochemistry relevant to agricultural production and environmental management including: chemical calculations, pH and buffers; oxidation and reduction reactions; electrochemical series and metal activity; battery operation; corrosion; introduction to the chemistry of fertilisers and pesticides; atmospheric and ozone chemistry; chemical composition and chemical properties of plant and animal products - sugars, fats and proteins; chemistry of hydrocarbon fuels.

Level II

PLANT SC 2003WT
Microbiology and Invertebrate Biology

- 4 units - semester 2
- 3 lectures, 4 hours practical/tutorial per week
- Assumed knowledge: Biology I: Organisms; Biology 1: Molecules, Genes and Cells; Cell Biology & Genetics; Biology of Plants and Animals
- Assessment: written exam 60%, practical exercises 15%, project work 15%, tutorials 10%

An introduction to the biology of microorganisms and invertebrates of importance in agriculture, wine and natural ecosystems. Topics to be considered include: microbial growth, energy sources and nutritional categories; form and function of major groups of microorganisms; classification and identification; beneficial and deleterious activities of microorganisms; features of saprophytic, pathogenic, symbiotic and commensal lifestyles; determinants of pathogenicity and resistance; interactions of microorganisms and environment; case studies of natural and managed microbial ecosystems; basic concepts of invertebrate taxonomy, physiology and function; external and internal anatomy; reproduction, life cycles, feeding relationships; practical skills for manipulating microorganisms and invertebrates and studying their activities.

PLANT SC 2004WT
General Microbiology

- 2 units - semester 1
- Assumed knowledge: Biology I: Organisms; Biology 1: Molecules, Genes and Cells; Cell Biology & Genetics; Biology of Plants and Animals
- Assessment : written exam 60%, practical exercises 30%, tutorials 10%

An introduction to the biology of microorganisms of importance in agriculture, wine and natural ecosystems. Topics to be considered include: microbial growth, energy sources and nutritional categories; form and function of major groups of microorganisms; classification and identification; beneficial and deleterious microorganisms; features of saprophytic, pathogenic, symbiotic and commensal lifestyles; determinants of pathogenicity and resistance; interactions of microorganisms and environment; case studies of natural and managed microbial ecosystems; practical skills for manipulating microorganisms and studying their activities.

Level III

PLANT SC 3002WT
Biotechnology in the Food and Wine Industries

- 2 units - semester 1
- Assumed Knowledge: PLANT SC 2002WT Chemistry of Biopolymers
- Assessment: practical reports, assignments, written exam

Application of biotechnology in the food and wine industry: use of recombinant DNA methods in manipulation of bacteria and yeast cultures; transgenic plants with improved traits and products with better quality, enzyme engineering for efficient food processing and production, non-alcoholic and alcoholic fermentations, food additives. Ethical issues and limitations of the gene manipulation technology will also be discussed.

PLANT SC 3004WT
Mineral Nutrition of Plants

- 3 units - semester 2
- 2 lectures, 4 hours practicals a week
- Prerequisite: PLANT SC 2001WT Agricultural Botany; or APP ECOL 1003RW Biology of Plants and Animals; or equivalent
- Assessment: exam 60%, practical reports 30%, reviews, essays 10%

An advanced course which takes its brief from the acute deficiency in minerals of most South Australian soils, and the pre-eminent role of nutrition in successful agricultural production in this State. Topics are discussed in a context of both agricultural and horticultural industries, and include factors affecting nutrient

acquisition by roots, diagnosis and correction of macro and micronutrient problems, fertiliser strategies, nutritional effects on produce quality, including nutritional quality, nutrition and disease resistance, genetic control of adaptation to nutrient limitations in soils, the role of symbiotic dinitrogen fixation, nutritional aspects of nitrogen fixation. A practical component supplements the lectures by providing hands on experience of the important issues.

PLANT SC 3007WT
Introductory Plant and Animal Breeding

- 3 units - semester 1
- 2 lectures, 4 hours of practicals a week
- Assumed Knowledge: GENETICS 2003 Basic Genetics or GENETICS 2000A/B Genetics II or ANIML SC 2029WT Genes and Inheritance
- Assessment: to be advised

The process of deliberate selection and improvement of animals and plants is integral to the development of civilisation. This course introduces the fundamental concepts of breeding: genetic diversity and modes of inheritance; strategies for setting objectives and maximising selection and improvement of key traits; breeding methodologies for self or cross pollinated plants and animals, and perennials.

PLANT SC 3009WT
Plant Molecular Biology

- 6 units - semester 2
- 3 lectures, 1 tutorial, 8 hours practicals a week
- Assumed Knowledge: BIOCHEM 2106 Biochemistry II (Biotechnology) A, ANIML SC 2029WT Genes and Inheritance or BIOCHEM 2000A/B Biochemistry II or equivalents
- Assessment: practicals 20%, tutorial projects 10%, research plant & review 20%, final exam 50%

This course provides a current review of our knowledge in plant development, environmental responses and plant-microbe interactions. There is an emphasis on the molecular mechanisms directing plant gene expression under diverse environmental and developmental stimuli. This knowledge is central to our ability to modify plant responses and properties for commercial gains in biotechnology and agriculture. Areas covered in the course include: plant genes and genomes; mechanisms that control plant gene expression; molecular-genetic analysis of important characteristics; signal transduction; molecular biology of plant development, reproduction, and responses to disease and other environmental factors. In the laboratory classes, students will perform some of the techniques currently used to generate plant molecular biology information and undertake a research project related to current research in plant molecular biology and biotechnology.

PLANT SC 3018WT
Advanced Plant and Animal Breeding

- 3 units - semester 2
- Prerequisite: PLANT SC 3007WT Introductory Plant and Animal Breeding
- Assessment: to be advised

Advanced Plant and Animal Breeding examines the role of genetic manipulation in agriculture. This course is designed for students who intend to enter either the crop or animal industries. It is virtually an essential adjunct to those whose primary interests are in: integrated pest and disease management; animal husbandry; crop science, as genetic manipulation is the major alternative to changes in management in these areas and often presents the more efficient methods of solving agricultural problems. The course is also an introduction for those who wish to continue in research in genetics of crops and animals and those will become full-time breeders. Students will develop specialised skills in strategies and technologies which can be applied to breeding of plants, including field crops and horticultural crops and in animal breeding and selection. The lectures will cover advanced breeding techniques (hybrids, heterosis, male sterility); special techniques (mutations, polyploidy, cytogenetics, reproductive technologies); application of molecular technologies (QTL analysis, marker assisted selection, pedigree analysis, association genetics and mapping); the physiological, molecular and genetic basis of resistance to pests, parasites and disease; the statistical and genetic basis of genotype x environment interaction and breeding for end-product quality. The practical program includes field trips to a number of practical plant and animal breeding projects, computer based simulation studies and interactive tutorials.

PLANT SC 3022WT
Research Project Plant and Pest Science

- 3 units - semester 1 or 2
- Prerequisite: at least 55% in each of two level III courses offered by the Discipline of Plant and Pest Science
- Assessment: to be advised

The course comprises a small research project to be undertaken during the fourth year of the program under the supervision of a staff member in the Discipline of Plant and Pest Science. Students wishing to undertake a research project should consult the Head of Discipline before beginning of the fourth year. Courses presented as prerequisites should be relevant to the area of the research project.

Honours

PLANT SC 4003WT

Honours Plant & Pest Science (B.Ag.Sc.)

- 12 units - full year
- Prerequisite: credit or higher in at least two Level III courses offered by the Discipline of Plant and Pest Science
- Corequisite: 2 additional Level III courses offered by the Discipline relevant to proposed research project and approved by Head of Discipline (at discretion of Head, a relevant course taught by another discipline may be accepted
- Assessment: average of four Level III courses 40%, research project - research proposal, seminar, thesis and viva voce 60%

Candidates will be required to undertake a research project under the supervision of one or more members of academic staff and present seminars and a thesis on their research work. The research project could be undertaken in one of the following areas: Crop Physiology and Biochemistry, Plant-microbe Interactions, Plant Molecular Biology or Plant Breeding. Intending candidates should consult the Head of the Discipline of Pest and Plant Science and potential supervisors during the third year and be prepared to begin studies in the discipline at the beginning of February or July.

PLANT SC 4012WT

Honours Plant and Pest Science (B.Sc.)

- 24 units - full year
- This course is available under the provisions of Specific Academic Program Rule 5.7.2
- Prerequisite: credit or higher in at least two appropriate Level III courses offered by a Science Discipline

Candidates will be required to undertake a research project under the supervision of one or more members of academic staff and present seminars and a thesis on the research work undertaken. The research project could be undertaken in one of the following areas: Crop Physiology, Biochemistry, Plant Molecular Biology or Plant Breeding. A candidate may also be required to attend lectures and pass exams in related courses.

Intending candidates should consult the Head of the Discipline of Plant and Pest Science and potential supervisors during the final year of the degree and be prepared to begin studies in the discipline at the beginning of February or July (for mid-year intake).

PLANT SC 4014WT

Honours Plant and Pest Science (B.Ag.)

- 24 units - full year
- Prerequisite: credit or higher in at least two Level III courses approved by the Head of Discipline.
- Assessment: average of 4 Level III courses 40%, research proposal, seminar, thesis, viva voce 60%

This course comprises a substantial research project of the students choosing on a topic acceptable to the Discipline of Plant and Pest Science as well as coursework, essays or other assignments deemed appropriate to each student's Honours program.

The coursework will usually consist of four Level III courses from those listed by the Discipline in the Schedules for the B.Ag.Sc. degree but at the discretion of the Head of Discipline courses from another discipline may be accepted. In the Discipline of Plant and Pest Science, candidates can undertake the research work for their honours degree in one of the following areas: Crop Physiology and Biochemistry, Plant Molecular Biology, Plant Breeding or Biometry. Candidate will present oral reports and a thesis on research work undertaken during the year under the supervision of one or more members of academic staff.

Intending candidates should consult the Head of the Discipline and potential supervisors during the final year of the degree and be prepared to begin studies at the beginning of February.

Politics

Level I

POLI 1101

Introduction to Australian Politics

- 3 units - semester 1
- 2 lectures, 1 tutorial per week
- Available for Non-Award study
- Assessment: tutorial participation 10%, 1000-1500 word short essay 30%, 2500-3000 word essay/optional 3 hour exam 60%

The course will provide an introduction to the Australian political system in its social, cultural and economic context. Students will also be introduced to relevant theoretical debates in a range of areas. Topics covered include: national identity, political culture, governmentality, political parties, pressure groups, environmental issues, the media, class, gender, race, ethnicity, technology, the impact of economic globalisation, political institutions, democracy, elections, and Australia's place in the world. The course will address the major forces that are influencing and shaping the Australian political environment.

POLI 1102

Introduction to International Politics

- 3 units - semester 1
- 2 lectures, 1 seminar per week
- Available for Non-Award study
- Assessment: 2500-3000 word major essay 50%, 1000-1500 minor essay 30%, tutorial presentations, discussion 20%

This course provides a comprehensive introduction to International Politics and International Relations - its history, its key concepts and theoretical frameworks, its architectures of power and struggle, and its main actors and institutions. The course introduces concepts of statecraft, strategy and diplomacy, traces the evolution of international politics through colonialism, the two World Wars and the Cold War, and introduces the international political economy. It analyses the role of the United Nations and discusses important and contested ideas such as human rights, globalisation, security and sovereignty. The course concludes with an examination of new debates in gender and the global environment, and Australia's place in a turbulent region and a globalising world.

POLI 1104

Introduction to Comparative Politics

- 3 units - semester 2
- 2 lectures, 1 tutorial per week
- Available for Non-Award study
- Assessment: 2500-3000 word essay 50%, 1500-2000 word tutorial paper 30%, tutorial participation 20%

This course considers how and why political institutions, events and processes should be compared across a broad international spectrum. Students will be introduced to differing approaches to comparative study, and encouraged to examine similarities and contrasts in contemporary political cultures. At the core of this investigation will be the relevance of the differing concepts of power and leadership, economy and business, as well as the place of elites and the media in the scheme of politics in various geographical and cultural settings. Students will be expected to submit a research essay on an area of comparative politics.

POLI 1105

Thinking about Politics

- 3 units - semester 2
- 2 lectures, 1 tutorial per week
- Available for Non-Award study
- Assessment: minor essay of 1500 words 25%, major essay of 2500 words 65%, tutorial participation 10%

Politics from ancient times, is not simply a method of exercising power and distributing wealth, but also a tradition of inquiry about personal relationships, moral values, cultural forms and the purposes of communal life. Political thinking questions the conditions of social existence and the aims of social action. This engagement is often more arduous, more challenging and ultimately more dangerous than the life of a professional politician.

Political thinking is a medium of thought and communication. It is distinct, but not isolated, from the everyday politics of parties, parliaments and media headlines. Political thinkers have created the very words and categories we use to evaluate, direct and censure political action. This course will introduce the role of political theory in shaping fundamental ideas of Western political, moral and legal institutions: the purpose of politics: ends or means?; the 'nature' of man and woman; equality and freedom; rights and law: nature or convention?; political 'systems': democracy, liberalism, socialism and nationalism; alienation and the utopian imagination; history as progress or decline.

Level II

POLI 2001

Anarchism and Libertarianism

- 4 units - semester 1
- 2 lectures, 1 tutorial per week
- Prerequisite: 6 units Level I Humanities/Social Sciences
- Assessment: option 1: tutorials 10%, 1200-1500 word essay/ paper 25%, 4000-4500 word essay 65%; option 2: tutorials 10%, 2 x 2600-3000 word essays 45% each

The course will study the emergence and development of anarchism as a political theory of the individual and the community. We will examine the grounds for opposition to liberal-democracy, capitalism and Marxism, the tradition of libertarianism with its emphasis on the minimal state and competitive individualism. Topics to be covered: Anarchism and Liberalism; the Problem of Authority; Autonomy and Community; Co-operation versus Competition; Anarchist Theories of Property; the State and Political Power; Anarchism and Marxism; Anarchy and Utopia: Violence and Pacifism; the Spanish Experience; Anarchism and the Russian Revolution; Anarchism and Ecology; Anarchism, Art and Architecture, Anarchism and Post-structuralism; the Temporary Autonomous Zone; the Libertarians and the Free Individual; the Market and the Individual; Liberty, the State and the New Right.

POLI 2002

Comparative Politics

- 4 units - semester 1
- 2 lectures, 1 tutorial per week
- Prerequisite: 6 units Level I Humanities/Social Sciences

There are 2 topics available as follows:

State of the World

- Assessment: tutorial participation 25%, 1800 word first essay 30%, 3000-3500 word second essay 45%

State of the World takes its point of departure from the annual reviews of the State of the World issued by international agencies and non-government organisations (NGOs) such as the World Bank, UNICEF, the Worldwatch Institute, Amnesty International and so forth. The course focuses upon the state of the world's most vulnerable groups, women and children, indigenous peoples, the ultra-poor as well as the environment and upon their efforts to secure material improvement and social justice. Tutorials will

examine contemporary issues in the Third World such as the desires and priorities of poor working women, the causes and cures of severe hunger and famine, the help and harm done by multinational corporations, the relationships between poor people and rainforests, the causes of the African crisis, the role of major international agencies such as the World Bank, the motivations behind and consequences of foreign aid and the impact of NGOs. Above all, the course looks at the efforts and activities undertaken by ordinary people around the globe to transform their lives.

Understanding Modern Europe

- Restriction: Contemporary Europe A
- Assessment: 1200-1500 word minor essay 25%, 2500-3000 word major essay 50%, short test 15%, tutorials 10%

Understanding Modern Europe examines the experience and character of modern Europe. Its principal focus is on western Europe and on the 25 nations that make up the recently enlarged European Union. It locates the key political and institutional systems that have shaped Europe in their historical context and explains the dominance of the west. Particular attention is paid to the emergence of the European Union and to explaining the social patterns of modern Europe. Topics covered include: national integrity, the nation state, the rise of nationalism and the development of modern political culture, political systems, systems of government, elections and party systems, social and economic structures, and the rise and implications of the enlargement of the European Union.

POLI 2006

International Justice and Society

- 4 units - semester 1
- 2 lectures, 1 tutorial per week
- Prerequisite: 6 units Level I Humanities/Social Sciences
- Assessment: 1500-2000 word essay 35%, 3000-3500 word essay 55%, tutorial participation 10%

Should only legitimate and just states be allowed to be autonomous? What is a legitimate state? What is a nation? Do nations within multi-nation states have rights? In recent times the principle of non-interference that has been at the heart of international law since the mid-seventeenth century has been increasingly challenged. This course takes the concept of sovereignty as its central theme and examines whether it remains a viable and relevant basis for international organisation in the new millennium. How might outsiders justify interference in the internal affairs of other nations and states? Is war ever just? Are the moral obligations we owe to all people in the world the same as those we owe to our fellow nationals? How should we respond to the plight of refugees? Do universal values and human needs exist? Or are values relative to each culture? In exploring the issues raised by these questions and others, this course examines the role of human rights in international law, war crimes tribunals, just war theory, the United Nations, proposals for future global governance, nationalism, national identity and international ethics.

POLI 2009

Justice, Virtue and the Good

- 4 units - semester 2
- 2 lectures, 1 tutorial per week
- Prerequisite: 6 units Level I Humanities/Social Sciences
- Restriction: History of Political Thought (A)
- Assessment: minor essay 1500 words 30%, major essay 3000 words 50%, tutorial work 20%

This course explores the concepts of justice, virtue and the good life as developed in selected classic texts of Western political theory. Key themes to be examined include: justice and equality in classical thought; the origins and aims of political community; 'knowing' versus 'feeling' the good; gender and moral virtue; iniquity, vice and evil; freedom and obligation.

POLI 2010

Modern Political Theory

- 4 units - semester 1
- 2 lectures, 1 tutorial per week
- Prerequisite: 6 units Level I Humanities/Social Sciences
- Restriction: History of Political Thought (B)
- Assessment: tutorial participation 10%, minor essay 1500 words 30%, major essay 3000 words 60%

This course will introduce students to the ideas, thinkers and classic texts of modern Western political thought. Beginning with the landmark works of Thomas Hobbes and John Locke, the lectures and readings will examine theories of secular society and democratic political institutions as a revolutionary parallel to the Enlightenment and the rise of modern science.

POLI 2012

Citizenship in an International Context

- 4 units - semester 2
- 2 lectures, 1 tutorial per week
- Prerequisite: 6 units Level I Humanities/Social Sciences
- Assessment: 1500 word paper 30%, 3500 word essay 60%, participation 10%

Meanings of citizenship have become highly contested in contemporary political regimes, due partly to the pressures of social movements, partly to internationalisation in its many forms. This course will examine debates such as those dealing with the nature of citizenship, refugee policies, human rights, access to resources, relationship to the land, sexuality, gender and development to allow students to reflect upon the issues at stake. A framing question for the course is - what does it mean to be a citizen in a global world?

POLI 2071

Issues in Australian Politics

- 4 units - semester 2
- 2 lectures, 1 tutorial per week
- Prerequisite: 6 units Level I Humanities/Social Sciences
- Assessment: tutorial paper 30%, essay 60%, class contribution/attendance 10%

This course covers key issues for the 21st century such as globalisation and the role of the nation state; the impact of international issues on Australian Politics e.g. the 'War on Terror' and Australian relations with the U.S. and Asia; cyberpolitics; the new information economy; genetic engineering; the politics of identity e.g. gender, race, ethnicity and the politics of sexuality; environmental politics; new forms of inequality and the politics of uncertainty. Particular emphasis is placed on analysing issues in the context of party political discourse and Australian political culture. The course draws on a wide range of analytical and theoretical frameworks from cybertheory to Foucaultian theories of governmentality.

POLI 2072

Marx and Marxism in the Twenty-First Century

- 4 units - semester 2
- 2 lectures, 1 tutorial per week
- Prerequisite: 6 units Level I Humanities/Social Sciences
- Assessment: option 1- tutorials 10%, 1200-1500 word essay/ paper 25%, 4000-4500 word essay 65%; option 2 - tutorials 10%, 2 x 2600-3000 word essays 45% each

The course will commence with a study of the development of Marxism as a tradition of analysis of capitalism and capitalist society. It will also examine the social, economic and political alternatives it offers. The course will proceed to examine the contributions of major contributors to the Marxist tradition such as Lenin, Gramsci and Sartre. The last section of the course will, through a study of contemporary debates, discuss the contemporary relevance of Marxism. Among topics to be discussed will be globalisation, postmodernism, post-Marxism, Marxism and environmental theory, the civil society debate, market socialism and post-communism.

POLI 2074

Politics, Ideology and Discourse

- 4 units - semester 1
- 2 lectures and 1 tutorial per week
- Prerequisite: 6 units Level I Humanities/Social Sciences
- Assessment: essay 60%, tutorial contribution 10%, tutorial paper 30%

Ideology and discourse play a crucial role in politics. They influence government/party policy, voting outcomes, whether we go to war, views of Australia's place in the world, media and popular culture, conceptions of our own identity and of the "other". In short, ideology and discourse influence how we interpret the world and they have very practical effects. This course introduces you to various analyses of ideology and discourse e.g. from Marx, Foucault, Habermas, Lyotard, Said, feminism, queer theory, political economy, environmental theory, cybertheory, analyses of racism and popular culture. The course sees theory as an analytical tool that provides more sophisticated understandings of politics in the everyday world. Examples are constantly drawn from current issues in Australia, other countries and from the media and popular culture. Consequently, issues discussed in past years have included whether the analyses of Edward Said can help us to understand why the West risks losing the ideological war in Iraq; the impact of Baudrillard's theories on the Matrix films; Asian perceptions of Australia; queer analyses of gay and lesbian television content; environmentalist critiques of traditional political ideology and policy-making.

POLI 2079

Politics, Power and Popular Culture

- 4 units - semester 2
- 2 hour lecture and 1 hour tutorial per week
- Prerequisite: 6 units Level I Humanities/Social Sciences
- Assessment: 1500 minor essay 30%, 3500 word major essay 60%, tutorial participation 10%

The course will introduce students to the processes of globalisation and its relationship to local politics. It seeks to investigate the modes of political power and the manner by which these are represented within the media and popular culture. The course will examine, from a uniquely political perspective, issues of gender, race, class and ethnicity in several different genres; television, sport, film, theatre, art and literature.

POLI 2081

Post-Cold War International Relations

- 4 units - semester 2
- 2 lectures, 1 tutorial per week
- Prerequisite: 6 units Level I Humanities/Social Sciences
- Restriction: International Politics
- Assessment: 1500-2000 word tutorial paper 30%, 2500-3000 word essay 50%, tutorial 20%

This course explores the nature of international politics since the end of the Cold War. Examined will be a variety of approaches, beginning with the place of Realism and its critics. Special consideration will be given to the evolving nature of power and challenges to that power in the international system. A number of issues will form the focus for study, amongst which will be:

globalisation and the impact of growing economic inequality, the increasing role of international bodies such as the WTO, the rise of US unilateralism and the re-emergence of terrorism as a major preoccupation in world affairs.

Level III

POLI 3001

Anarchism and Libertarianism

- 6 units - semester 1
- 2 lectures, 1 tutorial per week
- Prerequisite: 8 units Level II Humanities/Social Sciences
- Assessment: option 1: tutorials 10%, 1500-2000 word essay/ paper 25%, 5500-6000 word essay 65%; option 2: tutorials 10%, 2 x 3500-4000 word essays 45% each

The course will study the emergence and development of anarchism as a political theory of the individual and the community. We will examine the grounds for opposition to liberal-democracy, capitalism and Marxism, the tradition of libertarianism with its emphasis on the minimal state and competitive individualism. Topics to be covered: Anarchism and Liberalism; the Problem of Authority; Autonomy and Community; Co-operation versus Competition; Anarchist Theories of Property; the State and Political Power; Anarchism and Marxism; Anarchy and Utopia: Violence and Pacifism; the Spanish Experience; Anarchism and the Russian Revolution; Anarchism and Ecology; Anarchism, Art and Architecture, Anarchism and Post-structuralism; the Temporary Autonomous Zone; the Libertarians and the Free Individual; the Market and the Individual; Liberty, the State and the New Right.

POLI 3002

Comparative Politics

- 6 units - semester 1
- 2 lectures, 1 tutorial per week
- Prerequisite: 8 units Level II Humanities/Social Sciences

There are 2 topics available as follows:

State of the World

- Assessment: tutorial participation 25%, 2500 word essay 30%, 4500-5000 word essay 45%

State of the World takes its point of departure from the annual reviews of the State of the World issues by international agencies and non-government organisations (NGOs) such as the World Bank, UNICEF, the Worldwatch Institute, Amnesty International and so forth. The course focuses upon the state of the world's most vulnerable groups, women and children, indigenous peoples, the ultra-poor as well as the environment and upon their efforts to secure material improvement and social justice. Tutorials will examine contemporary issues in the Third World such as the desires and priorities of poor working women, the causes and cures of severe hunger and famine, the help and harm done by multinational corporations, the relationships between poor people and rainforests, the causes of the African crisis, the role of major international agencies such as the World Bank, the motivations behind and consequences of foreign aid and the impact of NGOs. Above all, the course looks at the efforts and activities undertaken by ordinary people around the globe to transform their lives.

Understanding Modern Europe

- Restriction: Contemporary Europe A
- Assessment: 1800-2200 word essay 25%, 3500-4500 word essay 50%, short test 15%, tutorials 10%

Understanding Modern Europe examines the experience and character of modern Europe. Its principal focus is on western Europe and on the 25 nations that make up the recently enlarged European Union. It locates the key political and institutional systems that have shaped Europe in their historical context and explains the dominance of the west. Particular attention is paid to the emergence of the European Union and to explaining the social patterns of modern Europe. Topics covered include: national integrity, the nation state, the rise of nationalism and the development of modern political culture, political systems, systems of government, elections and party systems, social and economic structures, and the rise and implications of the enlargement of the European Union.

POLI 3006

International Justice and Society

- 6 units - semester 1
- 2 lectures, 1 tutorial per week
- Prerequisite: 8 units Level II Humanities/Social Sciences
- Assessment: 2000-2500 word essay 35%, 4000-4500 word essay 55%, participation 10%

Should only legitimate and just states be allowed to be autonomous? What is a legitimate state? What is a nation? Do nations within multi-nation states have rights? In recent times the principle of non-interference that has been at the heart of international law since the mid-seventeenth century has been increasingly challenged. This course takes the concept of sovereignty as its central theme and examines whether it remains a viable and relevant basis for international organization in the new millennium. How might outsiders justify interference in the internal affairs of other nations and states? Is war ever just? Are the moral obligations we owe to all people in the world the same as those we owe to our fellow nationals? How should we respond to the plight of refugees? Do universal values and human needs exist? Or are values relative to each culture? In exploring the issues raised by these questions and others, this course examines the role of human rights in international law, war crimes tribunals, just war theory, the United Nations, proposals for future global governance, nationalism, national identity and international ethics.

POLI 3009

Justice, Virtue and the Good

- 6 units - semester 2
- 2 lectures, 1 tutorial per week
- Prerequisite: 8 units Level II Humanities/Social Sciences
- Restriction: History of Political Thought (A)
- Assessment: minor essay 2000 words 30%, major essay 4000 words 50%, tutorial work 20%

This course explores the concepts of justice, virtue and the good life as developed in selected classic texts of Western political theory. Key themes to be examined include: justice and equality in classical thought; the origins and aims of political community; 'knowing' vs 'feeling' the good; gender and moral virtue; iniquity, vice and evil; freedom and obligation.

POLI 3010

Modern Political Theory

- 6 units - semester 1
- 2 lectures, 1 tutorial per week
- Prerequisite: 8 units Level II Humanities/ Social Sciences
- Restriction: History of Political Thought (B)
- Assessment: tutorial participation 10%, minor essay 2000 words 30%, major essay 4000 words 60%

This course will introduce students to the ideas, thinkers and classic texts of modern Western political thought. Beginning with the landmark works of Thomas Hobbes and John Locke, the lectures and readings will examine theories of secular society and democratic political institutions as a revolutionary parallel to the Enlightenment and the rise of modern science.

POLI 3012

Citizenship in an International Context

- 6 units - semester 2
- 2 lectures, 1 tutorial per week
- Prerequisite: 8 units Level II Humanities/Social Sciences
- Assessment: 2500 word paper 30%, 5000 word essay 60%, tutorial participation 10%

Meanings of citizenship have become highly contested in contemporary political regimes, due partly to the pressures of social movements, partly to internationalisation in its many forms. This course will examine debates such as those dealing with the nature of citizenship, refugee policies, human rights, access to resources, relationship to the land, sexuality, gender and development to allow students to reflect upon the issues at stake. A framing question for the course is - what does it mean to be a citizen in a global world?

POLI 3071

Issues in Australian Politics

- 6 units - semester 2
- 2 lectures, 1 tutorial per week
- Prerequisite: 8 units Level II Humanities/Social Sciences
- Assessment: tutorial paper 30%, essay 60%, class contribution/ attendance 10%

This course covers key issues for the 21st century such as globalisation and the role of the nation state, the impact of international issues on Australian Politics e.g. the "War on Terror" and Australian relations with the U.S. and Asia; cyberpolitics, the new information economy; genetic engineering; the politics of identity e.g. gender, race, ethnicity and sexuality; environmental politics, new forms of inequality and the politics of uncertainty. Particular emphasis is placed on analysing issues in the context of party political discourse and Australian political culture. The course draws on a wide range of analytical and theoretical frameworks from cybertheory to Foucaultian theories of governmentality.

POLI 3072

Marx and Marxism in the Twenty-First Century

- 6 units - semester 2
- 2 lectures, 1 tutorial per week
- Prerequisite: 8 units Level II Humanities/Social Sciences
- Assessment: option 1- tutorials 10%, 1500-2000 word essay/ paper 25%, 5500-6000 word essay 65%; option 2 - tutorials 10%, 2 x 3500-4000 word essays 45% each

The course will commence with a study of the development of Marxism as a tradition of analysis of capitalism and capitalist society. It will also examine the social, economic and political alternatives it offers. The course will proceed to examine the contributions of major contributors to the Marxist tradition such as Lenin, Gramsci and Sartre. The last section of the course will, through a study of contemporary debates, discuss the contemporary relevance of Marxism. Among topics to be discussed will be globalisation, postmodernism, post-Marxism, Marxism and environmental theory, the civil society debate, market socialism and post-communism.

POLI 3074

Politics, Ideology and Discourse

- 6 units - semester 1
- 2 lectures and 1 tutorial per week
- Prerequisite: 8 units level II Humanities/Social Sciences
- Assessment: tutorial contribution 10%, tutorial paper 30%, essay 60%

Ideology and discourse play a crucial role in politics. They influence government/party policy, voting outcomes, whether we go to war,

views of Australia's place in the world, media and popular culture, conceptions of our own identity and of the "other". In short, ideology and discourse influence how we interpret the world and they have very practical effects. This course introduces you to various analyses of ideology and discourse e.g. from Marx, Foucault, Habermas, Lyotard, Said, feminism, queer theory, political economy, environmental theory, cybertheory, analyses of racism and popular culture. The course sees theory as an analytical tool that provides more sophisticated understandings of politics in the everyday world. Examples are constantly drawn from current issues in Australia, other countries and from the media and popular culture. Consequently, issues discussed in past years have included whether the analyses of Edward Said can help us to understand why the West risks losing the ideological war in Iraq; the impact of Baudrillard's theories on the Matrix films; Asian perceptions of Australia; queer analyses of gay and lesbian television content; environmentalist critiques of traditional political ideology and policy-making.

POLI 3079

Politics, Power and Popular Culture

- 6 units - semester 2
- 2 hour lecture and 1 hour tutorial per week
- Prerequisite: 8 units Level II Humanities/Social Sciences
- Assessment: 2500 minor essay 30%, 5000 word major essay 60%, tutorial participation 10%

The course will introduce students to the processes of globalisation and its relationship to local politics. It seeks to investigate the modes of political power and the manner by which these are represented within the media and popular culture. The course will examine, from a uniquely political perspective, issues of gender, race, class and ethnicity in several different genres - television, sport, film, theatre, art and literature.

POLI 3081

Post-Cold War International Relations

- 6 units - semester 2
- 2 lectures and 1 tutorial per week
- Prerequisite: 8 units Level II Humanities/Social Sciences
- Restriction: International Politics
- Assessment: 2500-3000 word tutorial paper 30%, 4000-5000 word essay 50%, tutorial participation 20%

This course explores the nature of international politics since the end of the Cold War. Examined will be a variety of approaches, beginning with the place of Realism and its critics. Special consideration will be given to the evolving nature of power and challenges to that power in the international system. A number of issues will form the focus for study, amongst which will be globalization and the impact of growing economic inequality, the increasing role of international bodies such as the WTO, the rise of US unilateralism and the re-emergence of terrorism as a major preoccupation in world affairs.

POLI 3082

South Australian Parliamentary Internship - Law

- 4 units - semester 1 or 2
- 40 hours
- Eligibility: Bachelor of Laws students only
- Prerequisite: LAW 1001 Introduction to Australian Law, LAW 1004 Law of Contract, LAW 1002 Law of Torts
- Assessment: 7000 word major research paper

This course enables a small number of students to spend a semester in a research-based placement within a law related area in the South Australian public sector or a non-government agency. Students spend time working on a defined research task under the joint supervision of a host supervisor and the academic convenor. By the end of the academic year, students write a report (about 7000 words) giving an account of the research project undertaken during the internship. Please note that due to the limited numbers of placements, entry to this course is by quota, based on academic merit. All students wishing to be considered for a placement should ensure that they have enrolled by 30 April.

POLI 3083

South Australian Parliamentary Internship

- 6 units - semester 2
- 40 hours
- Quota will apply
- Prerequisite: 8 units Level II Humanities/Social Sciences
- Assessment: 7000-8000 word major research paper

This course enables students to gain first hand experience of working with a Member of the Parliament of South Australia on a research-based placement. During the course of their internship, students complete a short academic orientation to their role and a series of seminars that deal with relevant issues. They then spend time working on a defined research task under the joint supervision of a host MP and the academic convenor. By the end of the academic year, students write a detailed research report giving an account of the research project undertaken during the internship. Please note that due to the limited numbers of placements, entry to this course is by quota, based on academic merit. All students wishing to be considered for a placement should ensure that they have enrolled by 30 April. There may also be small number of placements in the South Australian public sector or a non-government agency as part of this program.

Honours

POLI 4401

Honours Politics

- 24 units - full year
- Prerequisite:UG degree, credit average in courses contributing to major in Politics or equivalent, approved by Honours Coordinator
- Students wishing to take Honours Politics should consult the Honours Coordinator
- Assessment: coursework (2 seminars) 5,000 - 6,000 words each 25% each, 15000 - 18,000 word thesis 50%

There is a preliminary Honours meeting in November of each year where the Honours Handbook and applications will be available. Any questions regarding Honours are answered at this meeting. Please check Politics noticeboard for date of meeting, which will also be announced in lectures.

In some circumstances Honours Politics can be studied part-time over two years, or combined with Honours in another discipline.

Psychiatry

Level I

PSYCHIAT 1001

Person, Culture and Medicine IA

- 3 units - semester 1
- Eligibility: MBBS, B.Hlth.Sc, B.Psych.(Hons.) students only
- Restriction: Person, Culture and Medicine I
- Assessment: 2 essays, tutorial participation, seminar presentation

Person, Culture and Medicine is an interdisciplinary course which combines perspectives from psychology, physical anthropology and cultural anthropology, and brings them to focus on a number of complex human processes - eating, sex, pain and death. These processes will be approached from evolutionary, cultural and psychological perspectives.

Level II

PSYCHIAT 2002

Emotion Culture & Medicine IIA

- 4 units - semester 1
- Eligibility: MBBS, B.Hlth.Sc, B.Psych.(Hons.) students only
- Restriction: Emotion, Culture and Medicine I
- Assessment: 2 substantial essays, tutorial participation, practical work, seminar presentation

Emotion, Culture and Medicine is an interdisciplinary course which combines perspectives from anatomy, neurobiology, psychology, and cultural anthropology and brings them to focus on human emotions - pleasure, sadness, anger and fear. These emotions will be approached from evolutionary, cultural, neurobiological and psychological perspectives. Whilst the course draws upon similar disciplines and perspectives as those in Person, Culture and Medicine 1, it is not a prerequisite for this course.

Honours

PSYCHIAT 4000HO

Honours Psychiatry

- 24 units - full year

Students requiring further information concerning syllabuses and work required for the Honours Degree of Bachelor of Medical Science are advised to consult the Head of the appropriate department as early as possible.

Psychology

Level I

PSYCHOL 1000

Psychology IA

- 3 units - semester 1
- 3 lectures per week, 1 hour tutorial/practical most weeks
- May be available for Non-Award study - contact Department
- Restriction: 5104 Psychology I; PSYCHOL 1000A/B Psychology I
- Assessment: assignments, practical exercise 45%, research participation 5%, written exam 50%

This course provides an introduction to the systematic study of the person within contemporary psychology. Topics to be covered will include the development of the individual over the lifespan, the study of the person in a social context, differences between people with respect to their intelligence and personality, and issues related to individual adjustment and maladjustment. The variety of methods used by psychologists to investigate these topics and some of the major findings to emerge from relevant psychological research will be presented. The practical significance of these findings will also be discussed.

PSYCHOL 1001

Psychology IB

- 3 units - semester 2
- 3 lectures per week, 1 hour tutorial/practical most weeks
- May be available for Non-Award study - contact Department
- Restriction: 5104 Psychology I; PSYCHOL 1000A/B Psychology I
- Assessment: assignment and practical exercise 45%, research participation 5%, written exam 50%

This course provides an introduction to some core topics within psychological science. These include: the biological bases of behaviour; the interpretation by the brain of sensory signals from the external environment; the mechanisms underlying conditioning and learning; the encoding, storage and retrieval of information; and the nature of motivation and emotion. Further, the course will provide an introduction to the methodological approaches employed by psychologists to study these topics. Reference will also be made to the conventions of psychological report writing and the ethical principles underpinning psychological research and practice.

Level II

PSYCHOL 2001

Psychological Research Methodology II

- 4 units - semester 1
- 2 lectures per week, plus practical workshops
- May be available for Non-Award study - contact Department
- Prerequisite: PSYCHOL 1000 Psychology IA and PSYCHOL 1001 Psychology IB,or equivalent
- Assessment: 2 practical exercises 50%, exam 50%

The course presents an introduction to current approaches to enquiry in psychology. It considers the relative merits and shortcomings of these approaches and attempts to locate them within a broad framework of epistemological understanding. Consideration will be given to methods ranging from the interpretive to the experimental, and to appropriate procedures for analysing and drawing conclusions from the data such methods produce. The use of computer-based methods and packages for the treatment of both textual and numerical data will be emphasised. Students should be aware that a knowledge of the material presented in this course will be assumed in a majority of Level 3 Psychology courses.

PSYCHOL 2002

Psychology IIA

- 4 units - semester 1
- 3 lectures per week, tutorials most weeks
- May be available for Non-Award study - contact Department
- Prerequisite: PSYCHOL 1000 Psychology IA and PSYCHOL 1001 Psychology IB or equivalent
- Restriction: 5846 Psychology II, PSYCHOL 2000A/B Psychology II
- Assessment: assignments 50%, exam 50%

This course seeks to build upon the diverse and complementary approaches towards an understanding of human and animal behaviour that were introduced in Psychology 1A and Psychology 1B. Lectures and practicals will focus on research concerned with the biological substrates and correlates of behaviour, on the way in which behaviour changes with age, on the interpretation of behaviour in terms of its cognitive and emotional underpinnings, on the nature of individual differences, and on the effect of a range of socio-cultural factors. The theoretical and applied significance of this research will be presented. Students will gain a sense of Psychology as a discipline in which the ideas and methods employed to investigate the complexities of the psyche and the mind are continuing to evolve.

PSYCHOL 2003

Psychology IIB

- 4 units - semester 2
- 3 lectures per week, tutorials most weeks
- May be available for Non-Award study - contact Department
- Prerequisite: PSYCHOL 1000 Psychology IA and PSYCHOL 1001 Psychology IB, or equivalent
- Restriction: 5846 Psychology II, PSYCHOL 2000A/B Psychology II
- Assessment: assignments 50%, exam 50%

This course aims to elaborate further on the multifaceted framework presented in Psychology IIA towards an understanding of human and animal behaviour. Specifically, this course will include a consideration of behaviour from social, developmental and biological perspectives. Moreover, it will examine theories and research relevant to an understanding of personality, intellectual capacity and emotional adjustment. Again, the empirical methods and measures used to acquire insights into the nature of human and animal behaviour, which make Psychology an evidence-based discipline, will be emphasised.

Level III

PSYCHOL 3000

Psychological Research Methodology III

- 4 units - semester 1
- 2 lectures/week, practical work in computing & statistics, 6 tutorials
- May be available for Non-Award study - contact Department
- Prerequisite: 3149 Psychology II; or 4416 Psychological Research Methodology II; or PSYCHOL 2001 Psychological Research Methodology II
- Assessment: statistical computing practical 33.3%, written exam 66.7%

The course will introduce a range of statistical techniques that are more complex than those taught at Level II. These may include correlation and partial correlation, exploratory factor analysis, multiple regression, multifactor analysis of variance, analysis of covariance, and Bayesian approaches to statistical inference. Students will gain further experience with the use of statistical software (specifically SPSS) on the University's computers, and will carry out a practical exercise in this area. A wide range of issues

relating to research design will be covered in lectures and tutorials, including: ethical considerations; the various concepts of reliability and validity; the logic of inference from data obtained in different ways; and the use of quasi-experimentation and unobtrusive measures. Consideration will also be given to the inferences that have been made by researchers using particular research designs in specific areas of psychological interest.

PSYCHOL 3002
Mind, Brain and Evolution III

- 2 units - semester 1
- 1 lecture/week; 3 tutorials, practical work
- May be available for Non-Award study - contact Department
- Prerequisite: PSYCHOL 2002 Psychology IIA and PSYCHOL 2003 Psychology IIB, or equivalent.
- Assessment: practical exercise report 50%, written exam 50%

This course looks at the current scientific status of mind, consciousness and experience, taking into account the philosophical controversy that has been associated with such concepts, and the turbulent history of attempts by psychologists to deal with them. It examines, in particular, the outcomes of recent interdisciplinary approaches by neurophysiologists, philosophers, biologists, sociologists and evolutionary theorists, and asks whether these have made the concepts less scientifically problematic. Specific topics covered in lectures and tutorials include the status of philosophical positions conventionally held by scientists in general; the philosophical problems which specifically relate to mentalistic language; research in the psychological literature that attempts to answer questions about the determinants of experience; theoretical attempts by psychologists and others to account for the existence and nature of awareness; and investigations of similarities and differences between the ways in which these concepts are handled in different cultures. An important overall aim of the course is to encourage students to think creatively about scientifically controversial topics, and to see that this can be done without retreating from the standards of clarity and objectivity that are regarded as scientifically desirable.

PSYCHOL 3003
Developmental Psychology III

- 2 units - semester 2
- 1 lecture/week; 3 tutorials, practical work
- May be available for Non-Award study - contact Department
- Prerequisite: PSYCHOL 2002 Psychology IIA, PSYCHOL 2003 Psychology IIB and PSYCHOL 2001 Psychological Research Methodology II; or equivalents
- Assessment: practical exercise report 50%, written exam 50%

This course extends the account of human development presented in the earlier courses in Psychology. Lectures will focus on cognitive development, particularly in children. Recent theory and research extending Piaget's classic work in this area will be examined, specifically: (1) age-related changes in central processing, in particular, working memory capacity and speed of information processing; (2) the development with age of specific strategies for the encoding and retrieval of information; and (3) the emergence of intuitive 'theories' within knowledge domains like number, physics, biology, and psychology.

PSYCHOL 3005
Perception and Cognition III

- 2 units - semester 2
- 1 lecture/week; 3 tutorials, practical work
- May be available for Non-Award study - contact Department
- Prerequisite: PSYCHOL 2002 Psychology IIA,PSYCHOL 2003 Psychology IIB; and PSYCHOL 2001 Psychological Research Methodology II; or equivalent.
- Assessment: practical exercise report 50%, written exam 50%

This course looks at recent theoretical approaches to the study of human perceptual and cognitive processes and at some of the major mechanisms, models and metaphors that have been proposed to describe and explain them. Lectures will deal with such topics as attention; the perception of surface, shape and structure; the perception of objects, scenes and object properties and parts; memory; categorisation; the acquisition and retrieval of knowledge; and reasoning and problem-solving.

PSYCHOL 3006
Psychology, Physiology and Behaviour III

- 2 units - semester 2
- 1 lecture/week; 3 tutorials, practical work
- May be available for Non-Award study - contact Department
- Prerequisite: PSYCHOL 2002 Psychology IIA, PSYCHOL 2003 Psychology IIB, and PSYCHOL 2001 Psychological Research Methodology II; or equivalents
- Assessment: practical exercise report 50%, written exam 50%

The subject matter of this course mainly derives from the discipline of psychophysiology. Psychophysiologists 'unobtrusively' measure physiological responses whilst manipulating or observing some psychological process, with the aim of better understanding the relationship between mind and body. The course will present an overview of the human nervous system and a survey of systemic psychophysiology, for example, electroencephalography. There will then be some consideration of conceptual and inferential issues for example, polygraphic lie-detection. Finally, there will be lectures on connectionist models of the neural bases of behaviour.

PSYCHOL 3009

Metapsychology: Psychology, Science, Society III

- 2 units - semester 2
- 1 lecture/week, 3 tutorials, practical work
- May be available for Non-Award study - contact Department
- Prerequisite: PSYCHOL 2002 Psychology IIA and PSYCHOL 2003 Psychology IIB, or equivalents
- Assessment: practical exercise report 50%, written exam 50%

This course looks at Psychology as a complex human enterprise that is concerned with the production, dissemination, and application of psychological knowledge claims. The broad aim of the course is to show how our understanding of Psychology can be aided by recent developments in related disciplines such as Philosophy, History, Sociology, Linguistics, and Politics. In particular, the course focuses on Psychology's relationship to science, and to scientific knowledge claims in areas such as medicine, psychiatry, and the law. The course encourages a critical approach, and considers the impact on Psychology of influential post-structuralist and postmodern thinkers. Broadly, the course concerns Psychology's attempts to define itself as science, its relationship to other scientific disciplines, and the ways in which psychology functions in our society - what psychologists do, who employs them, and how psychological theories are used by a variety of social institutions such as government, education, health, the media and the legal system.

PSYCHOL 3010

Social Psychology III

- 2 units - semester 1
- 1 lecture/week; 3 tutorials, practical work
- May be available for Non-Award study - contact Department
- Prerequisite: PSYCHOL 2002 Psychology IIA, PSYCHOL 2003 Psychology IIB, and PSYCHOL 2001 Psychological Research Methodology II; or equivalents
- Assessment: practical exercise report 50%, written exam 50%

An expanding body of research in contemporary social psychology has been the study of social cognition. This tradition concerns itself with the way in which individuals and groups attend to, process, interpret, mentally represent and understand social information. Concepts central to social cognition research include attributions, schemas, scripts, categories and prototypes. These central concepts will be developed and expanded by the consideration of affective, social, cultural and symbolic influences. Less mainstream approaches to the study of social life such as social identity theory, social representations, and discursive psychology will be compared and contrasted to the social cognition tradition. The aim of this course is to examine critically the extent to which these different theoretical approaches can be usefully integrated. A practical exercise illustrating central theoretical concepts will be conducted.

PSYCHOL 3013

Learning and Behaviour III

- 2 units - semester 1
- 1 lecture per week, 3 tutorials, practical work
- May be available for Non-Award study - contact Department
- Prerequisite: PSYCHOL 2002 Psychology IIA, PSYCHOL 2003 Psychology IIB, and PSYCHOL 2001 Psychological Research Methodology II; or equivalents
- Assessment: practical exercise report 50%, written exam 50%

This course builds upon the material presented in earlier courses, and should be of considerable value to those considering further applied or experimental work involving either people or animals. Following a brief review of classic learning theories and key learning concepts and principles, the lectures will examine modern theoretical and experimental developments in classical and operant conditioning, as documented in the work of Rescorla, Seligman, Mackintosh, Premack, Timberlake and others. Included in this section will be discussions of contingency learning and gambling, learned helplessness, avoidance learning, punishment and social learning. The implications of these findings for education, health, addiction research and the aetiology of clinical disorders will be illustrated.

PSYCHOL 3014

Individual Differences III

- 2 units - semester 2
- 1 lecture per week; 3 tutorials, practical work
- May be available for Non-Award study - contact Department
- Prerequisite: PSYCHOL 2002 Psychology IIA, PSYCHOL 2003 Psychology IIB, and PSYCHOL 2001 Psychological Research Methodology II; or equivalents
- Restriction: 7196 Intelligence III
- Assessment: practical exercise report 50%, written exam 50%

This course reviews recent differential psychological theories about individual differences in cognitive abilities and personality. The explanatory success of the information processing paradigm is evaluated. The cognitive abilities component includes consideration of the consequences of intellectual disabilities, brain damage and age-related cognitive change during old age. The personality component addresses psychometric theory and its application to personality assessment.

PSYCHOL 3015

Human Relations III

- 2 units - semester 2
- 1 lecture per week; 3 tutorials, practical work
- May be available for Non-Award study - contact Department
- Prerequisite: PSYCHOL 2002 Psychology IIA and PSYCHOL 2003 Psychology IIB, or equivalents

- Restriction: 7324 Studies in Personality III
- Assessment: practical exercise report 50%, written exam 50%

This course concerns the socio-cultural construction of the person and relationships. Topics may include: the person, discourse and society; culture and human relations; the discursive construction of personality; self and experience; and interactional concepts of personality and relationships, including the interactional self, self and other, and constructing otherness. Social governance and social institutions will also be examined, and the roles of work, the family and the social order. Other topics may be knowledge and behaviour; regimes of truth; the subject and subjection; and the media, popular culture and experience. The use of discourse analysis in studies of the person and relationships will be discussed, as well as narrative, discursive and critical psychology, and social constructionist and poststructuralist perspectives.

PSYCHOL 3016

Language Processes III

- 2 units - semester 1
- Lecture/week; 3 tutorials, practical work
- Prerequisites: PSYCHOL 2002 Psychology IIA, PSYCHOL 2003 Psychology IIB and PSYCHOL 2001 Psychological Research Methodology II; or equivalent
- Assessment: practical exercise report 50%, written exam 50%

In this course, we will examine the process by which people and machines comprehend, produce and acquire language. In particular, we will explore speech perception and production, lexical access, sentence processing, text and discourse processing, first and second language acquisition and the neural basis of language. The course is designed to be applicable both to students interested in psycholinguistics and students interested in computational linguistics with practical work tailored to background.

Honours

PSYCHOL 4000

Honours Psychology

- 24 units - full year
- Prerequisite: see Department for entry requirements
- Assessment: exams in four elective topics 40%, exam in one compulsory topic 10%, empirical research thesis 50%

Intending applicants should obtain the Honours Introductory Booklet from the Department or consult the Department's website on how to apply for admission to Honours Psychology. Note that a quota will apply to the number of students who can be accepted into this course.

Honours Psychology is a full year's program of lectures and discussions on advanced topics. It also involves a dissertation embodying the results of a research investigation carried out under supervision of a member of the staff of the Department or other person nominated by the Department for the purpose.

Public Health

Level I

PUB HLTH 1001

Public Health IA

- 3 units - semester 1
- 4 hours per week
- Available for Non-Award study
- Assessment: exam, assignments, tutorial & practical participation

How and why have the main causes of illness and death in Australia changed over time? How do we define and measure health and illness? How does where you live, the job you do or your level of income affect your health? How does public health affect the way we think about health and disease? Is health a private or a public responsibility? Why is public health controversial?

Public Health IA seeks answers to such questions by drawing on a number of disciplines, including history, politics, ethics, sociology, epidemiology and biostatistics. It takes a population view of health and invites students to develop a critical view about what constitutes a public health issue and about the responses offered to these issues.

PUB HLTH 1002

Public Health IB

- 3 units - semester 2
- 4 hours per week
- Available for Non-Award study
- Assumed knowledge: concepts of health & disease, principles of public health, health status of Australians, descriptive epidemiology & basic biostatistics, public health applied to infectious & chronic disease, role of government in public health in Australia
- Assessment: exam, assignments, including media journal, tutorial & practical participation

What strategies for reducing smoking and encouraging exercise are likely to be successful? How important are controls over food safety, water quality and waste disposal? How do ecological issues impact on public health? What political issues are involved in allocating resources for health or maintaining a healthy environment? How is population control a public health issue? What is Australia's approach to the health impact of an ageing population? What are the health needs of indigenous Australians? How does the organization of health care affect our health?

With the underlying theme of health promotion, Public Health IB seeks answers to such questions by drawing on a number of disciplines, including environmental science, health economics, organisation of health care systems, sociology, social psychology; epidemiology; history, politics and ethics. It takes a population view of health and invites students to develop a critical view about what constitutes a public health issue and about the responses offered to these issues.

Level II

PUB HLTH 2000

Public Health Inquiry II

- 4 units - semester 2
- Available for Non-Award study
- Eligibility: B.Hlth.Sc. & B.Psych.(Hons) students only
- Prerequisite: PUB HLTH 1001 Public Health IA and PUB HLTH 1002 Public Health IB
- Assessment: written assignment, presentation and essay

Public Health Inquiry II builds upon concepts introduced in Public Health I to provide a detailed background to the major streams of inquiry in public health, in particular, epidemiology and social and political analysis.

The aim of the course is to demonstrate the way insights gained from these streams inform public health practice and policy, and the interwoven nature of practice and theory. The course encourages a critical approach and students will develop skills in the interpretation and synthesis of published public health research. On completion of Public Health Inquiry II, students will be familiar with the most commonly used methods of inquiry in public health and have an understanding of some key theoretical perspectives on the means by which health and illness are produced and managed in the context of a society.

PUB HLTH 2001

Public Health Sciences II

- 4 units - semester 1
- Available for Non-Award study
- Eligibility: B.Hlth.Sc. & B.Psych.(Hons) students only
- Prerequisite: PUB HLTH 1001 Public Health 1A and PUB HLTH 1002 Public Health 1B
- Assessment: exam, assignments, tutorial practical & site visit participation

Public Health Sciences is an introduction to a range of the sciences underpinning public health. It provides a link between the overall concepts of public health introduced in Public Health I and the more advanced treatment of theories and practice covered in Public Health Inquiry II and Public Health and Practice III.

We take the perspective of the future practitioner in public health and equip students with basic knowledge and practical skills in the disciplines of epidemiology and biostatistics, the epidemiology if infectious disease, and environmental and occupational health science.

At the end of this course the student will be able to apply epidemiological and statistical reasoning to public health problems, understand the nature of epidemic infectious diseases and the public health response to them, and appreciate the bases and extent of environmental and occupational threats to public health.

Level III

PUB HLTH 3101HO

Aboriginal Health Policy IIIHS

- 6 units - semester 2 (mid-semester break)
- Available for Non-Award study
- Eligibility: MBBS, B.Hlth.Sc. & B.Psych.(Hons) students only
- Prerequisite: PUB HLTH 2000 Public Health Inquiry II or PUB HLTH 1003 Public Health Sciences II or GEN PRAC Indigenous Health IIHS
- Assessment: to be advised

This course offers students the opportunity to analyse current public policy affecting the health of Aboriginal Australians. It uses historical and political analysis, and comparative studies of other indigenous populations, to provide a context for reflection on current Aboriginal health status and health needs. The course provides opportunities for students to explore a wide range of Aboriginal health programs and issues, through an intensive and multi-disciplinary teaching program and individual research.

PUB HLTH 3104HO

Epidemiology of Infectious Diseases IIIHS

- 6 units - semester 2
- 3 hours lectures/tutorials/practicals/seminars per week
- Available for Non-Award study
- Eligibility: B.Hlth.Sc. & B.Psych.(Hons) students only
- Prerequisite: PUB HLTH 2000 Public Health Inquiry II or PUB HLTH 1003 Public Health Sciences II, PUB HLTH 3109HO Introduction to Epidemiology and Biostatistics
- Assessment: presentation 50%, production of an informative class handout 50%

The aim of this elective course is to provide a grounding in communicable disease epidemiology of use to students of public health. It assumes no prior specialist knowledge and is to be completed in one semester.

An ecosystem approach will be taken. Thus a concentration on sick humans and aspects of their disease is inappropriate. The students will be urged to view infectious disease as a visible

manifestation of an ecological problem and to dissect out the agent, host and environmental factors that lead to such phenomena. Such an approach in turn is the basis for the design of feasible public health interventions

PUB HLTH 3106HO
Health Promotion IIIHS

- 6 units - semester 1
- 3 hours lectures/tutorials/practicals/seminars per week
- Available for Non-Award study
- Eligibility: B.Hlth.Sc. & B.Psych.(Hons) students only
- Prerequisite: PUB HLTH 2000 Public Health Inquiry II or PUB HLTH 1003 Public Health Sciences II
- Assessment: to be advised

By focusing on the processes that help communities and individuals maintain and improve wellbeing, this course helps students understand the holistic nature of health promotion, of which disease prevention is but one of several components. The course consists of three sections. The first defines the concept, framework and scope of health promotion. The second discusses theories underpinning the practice of health promotion in the areas of community development, behaviour change, healthy public policy, environmental improvement, and reorientation of health care services. The third illustrates the application of health promotion strategies to specific groups, and points to the relevance of site-specific interventions.

PUB HLTH 3108HO
Environmental and Occupational Health IIIHS

- 6 units - semester 1
- 3 hours lectures/tutorials/practicals/seminars per week
- Available for Non-Award study
- Eligibility: B.Hlth.Sc. & B.Psych.(Hons) students only
- Prerequisite: PUB HLTH 2000 Public Health Inquiry II or PUB HLTH 1003 Public Health Sciences II
- Assessment: to be advised

This course will introduce the stalwarts of environmental health, namely water quality and water pollution, food quality and air quality. There will also be some consideration of an important contemporary concern in environmental health: the pressures of rising population numbers and the ecological consequences of trying to ensure adequate food supplies. The course will also include an introduction to occupational health: how workplace hazards can affect health, and legislative and other strategies for the control of the hazards. There will be some consideration of how the changes in human ecology influence the emergence of new infectious diseases and the re-emergence of old diseases. Local environmental health issues will be considered as examples of global environmental health problems.

PUB HLTH 3109HO
Introduction to Epidemiology & Biostatistics IIIHS

- 6 units - semester 1
- 3 hours lectures/tutorials/practicals/seminars per week
- Available for Non-Award study
- Eligibility: B.Hlth.Sc. & B.Psych.(Hons) students only
- Prerequisite:PUB HLTH 2000 Public Health Inquiry II or PUB HLTH 1003 Public Health Sciences II

This course deals with epidemiological and statistical concepts and terminology, basic analytic techniques and research designs. It does not aim to train specialist epidemiologists or biostatisticians; instead the purpose is to give 'undifferentiated' public health workers an introduction to these disciplines. Some basic numeracy skills will be required.

By the end of the course students should grasp basic concepts in epidemiology and statistics; have an understanding of quantitative research strategies; begin to critically assess literature in the public health domain which employs epidemiological and statistical methods; understand the uses that are made of epidemiological information in public health; understand the role of epidemiology in surveillance of the health status of populations; and appreciate the use of statistics in making decisions in the face of uncertainty.

PUB HLTH 3112HO
Public Health Law IIIHS

- 6 units - semester 1
- 2 hours lectures/tutorials/practicals/seminars per week
- Eligibility: double major B.H.Sc /LLB students, or graduates, only
- Prerequisite: PUB HLTH 2000 Public Health Inquiry II or PUB HLTH 1003 Public Health Sciences II

A series of classes cover the major elements of public health law, the general theories about law and its development in contexts that are important for public health. There will be a detailed analysis of the law relating to the main public health areas, including disease control, environmental health, occupational health, epidemiology, public health litigation and legislation, drug and alcohol controls and health promotion.

PUB HLTH 3117HO
Rural Public Health IIIHS

- 6 units - semester 2 (mid-year break.)
- 1 week intensive course in Whyalla
- Available for Non-Award study
- Eligibility: B.Hlth.Sc. & B.Psych.(Hons) students only
- Prerequisite: PUB HLTH 2000 Public Health Inquiry II or PUB HLTH 1003 Public Health Sciences II
- Assessment: assignments and workshop presentation

This course is taught by a multi-disciplinary team undertaking research on rural and remote health. It builds on the knowledge and skills gained in previous public health courses to: Examine patterns of morbidity and mortality in rural and remote areas; Explore and analyse the determinants of health and illness in such settings; Understand issues related to service provision and utilisation in rural and remote locations; Analyse how regional health and other service providers apply State and Federal health policy in local settings. Specific topics include: undertaking needs assessment, understanding the strengths and weaknesses of geographical classification systems, examining the use of the concept of 'community' in understanding rural health, primary health care in non-metropolitan settings and issues in providing appropriate, accessible services.

The placement gives students the opportunity to meet health and human service providers in a variety of professional working environments in rural and remote areas. Students will have the opportunity to pursue topics of particular interest to them by undertaking assignments on topics of their choice.

PUB HLTH 3119HO

Public Health Internship III

- 6 units - semester 2
- 3 hour seminar
- Quota will apply based on marks obtained in PUB HLTH 1001 Public Health 1A, PUB HLTH 1002 Public Health 1B and PUB HLTH 2000 Public Health Inquiry II
- Eligibility: B.Hlth.Sc. & B.Psych.(Hons) students only
- Prerequisite: PUB HLTH 2000 Public Health Inquiry II, at least six units Level III Public Health courses
- Assessment: research and tutorial papers

This course provides students with the opportunity to combine workplace experience in Public Health settings with academic study. During the course students complete a substantial research task that involves the application of public health research skills and knowledge to a work environment.

Students are allocated placements from a range of offerings which include the State Office of the Commonwealth Department of Health and Ageing, the South Australian Department of Human Services, Divisions of General Practice, and health promotion and other non-government organisations in the health sector. Final placement will depend upon availability and the application of an internal quota.

PUB HLTH 3120HO

Public Health Theory and Practice III

- 6 units - semester 1
- 4 hours per week
- Available for Non-Award study
- Eligibility: B.Hlth.Sc. & B.Psych.(Hons) students only
- Prerequisite: PUB HLTH 2000 Public Health Inquiry II or PUB HLTH 1003 Public Health Sciences II
- Assessment: assignments, tutorial and practical presentation

This course builds on the content of Public Health Inquiry II and consists of two complementary strands that will help prepare students for a career in public health or related field. The Theory strand invites students to reflect more deeply on current assumptions and practices in public health. Students will explore the conceptual bases, scientific and social, of public health, consider fundamental questions about cause and effect, and enhance their skills in critiquing current approaches. The Practical strand will equip students with practical skills needed in the public health workplace. At the end of this course a student will possess enhanced skills in interpretation of qualitative and quantitative data and reports, have further developed their writing and presentation skills, and examined the processes involved in public health advocacy.

PUB HLTH 3121HO

Qualitative Research in Practice IIIHS

- 6 units - semester 2
- Available for Non-Award study
- Eligibility: B.Hlth.Sc. & B.Psych.(Hons) students only
- Prerequisite: PUB HLTH 2000 Public Health Inquiry II or PUB HLTH 1003 Public Health Sciences II
- Assessment: may include tutorial presentations, group projects, critical review of published research

Qualitative research is central to current public health practice. This applied course will provide students with an introduction to the theory and process of qualitative research methods. Students will develop the skills to recognise and reflect on the strengths and limitations of different research methodologies, understand the links between theory and practice, critically assess research, and address ethical and practical issues. The course takes a step-by-step approach to the design and implementation of qualitative research and includes: formulating a research question; writing research and ethics proposals; conducting interviews, participant observation, focus groups, textual and media analysis; managing data (computer assisted); analysing data; and writing and presenting findings.

Honours

PUB HLTH 4000HO

Honours Public Health

- 24 units - full year
- Eligibility: B.Med.Sc. students, appropriately qualified B.Hlth.Sc. students, or permission of Head Department
- Assessment: course work, seminar attendance, honours thesis

Students requiring further information concerning syllabuses and work required for the Honours degree of Bachelor of Medical Science or Bachelor of Health Sciences (Honours) in Public Health are advised to consult the Honours Coordinator as early as possible.

PUB HLTH 4005HO

Combined Honours Public Health & Philosophy

- 24 units - full year
- Eligibility: B.Med.Sc. students. appropriately qualified B.Hlth.Sc. students, or permission of Head of Department
- Assessment: to be advised at start of year

Honours subject Public Health combined with Philosophy.

Social Sciences

Level I

SOCI 1001

SOCI 1001EX

Social Sciences in Australia

- 3 units - semester 1
- 2 hour lecture, 1 tutorial per week
- Available for Non-Award study
- Assessment: tutorial participation, assignments, totalling approx. 4500 words

The social sciences (sociology, history, political economy etc) challenge everyday and media assumptions concerning Australian society. We explore the ways in which our identities are formed through the influences of youth, gender, class and ethnicity. We examine the different experiences of place according to the changing nature of nation states in a globalising world. The spatial differences and inequalities apparent within and between Australian cities as well as the spatial realms of home and work are considered. Finally, we discuss how issues, such as refugees or indigenous autonomy, come to be represented in particular moral and political terms, comparing their representation in the media with social science understandings.

SOCI 1002

Image, Text and Representation

- 3 units - semester 1
- 2 hour lecture, 1 tutorial per week
- Available for Non-Award study
- Assessment: lecture & tutorial participation, lecture & tutorial exercises 20%, approx. 2000 word analysis of magazine or cover advertisement 40%, approx. 2000 word news media analysis 40%

Advertising images are some of the most ubiquitous and influential elements in our everyday lives. Everywhere we go we encounter these images. This course studies the interrelationships of image and text in advertising and information genres on a global stage. It introduces students to a range of theories, analytical perspectives, and critical skills that inform the fields of media and communication studies. Students will develop an understanding of key concepts and approaches in contemporary media analysis from semiotics, discourse theory, theories of representation, and approaches to audience response. They will develop skills to read media images and texts critically, particularly in relation to advertisements, the news, and information media in local and global contexts. They will explore processes of the production and reading of texts, images, and the relationships between them that produce meaning in different ways, for different audiences, in different contexts. Topics will include image and representation; popular culture and globalisation; reading and decoding magazines and advertisements; 'us' and 'them' in the news; mythmaking, stereotypes and resistances to them; media concentration and ownership; changing strategies in advertising production; and trans-nationals and information media..

Level II

SOCI 2002

Social Science Techniques

- 4 units - semester 1
- 2 lectures, 1 workshop per week
- Prerequisite: 6 units Level I Humanities/Social Sciences
- Restriction: Issues and Techniques in the Social Sciences
- Assessment: workshops 60%, exam 40%

The objectives of this course are: to provide students with a perspective on the role of social sciences within contemporary society, especially in Australia; to assist them in the development of their own individual career paths and to enhance students' prospects of entering a satisfying and rewarding career in the social sciences upon completion of their degree. The main objective of this course is to teach students some basic skills in the collection, analysis, interpretation and presentation of social science information, with a focus on Australian census data. Students are introduced to the use of EXCEL spreadsheets, NUD*IST (for qualitative data analysis) and SPSS, a package for the analysis of survey and statistical data, in line with the practical component of this course which incorporates a series of computer workshops.

SOCI 2004

Social Research

- 4 units - semester 2
- 2 hour participatory seminar, 1 tutorial per week
- Prerequisite: 6 units Level I Humanities/Social Sciences
- Restriction: Social and Labour Research III
- Assessment: 4 practical exercises (incl. preparation & participation for seminars) 40%, textual analysis 25%, survey research assignment 35%; total 6000 words

Most of us, during our lives both at work and outside it, will be making use of research - whether as consumers of research understanding our communities, social, political and scientific worlds, or as employees reading and interpreting research results, or preparing them. This course gives students a solid grounding in the values, ethics and methods of social science research. It explores a range of approaches to research and their theoretical bases. The course requires active participation in weekly seminars where practical exercises and research simulations, provide the means whereby students learn the basic principles of different research methods, including interview and survey techniques, grounded theory, discourse and content analysis. Each student will undertake two research assignments, one utilising existing textual data and the other a primary data collection study using survey/ interview techniques. The course will develop and assess student's skills in all stages of the research process as well as in interpreting and evaluating research findings (i.e. research 'literacy').

SOCI 2005

The Media and Social Change

- 4 units - semester 2
- Lecture, 2 hour tutorial per week
- Prerequisite: 6 units Level I Humanities/Social Sciences
- Assessment: essays, other written work

Students will analyse the representation of various social movements in the mainstream news media. They will also examine media strategies pursued by various social movements in communicating with their constituencies, promoting their concerns, and organising campaigns. The rise of diverse social movements in the late twentieth century has challenged representational conventions and prqactices in both mainstream and emerging media. New forms of alliance-building and the breaking down of traditional, rigid political oppositions has presented dilemmas for reporting of community and protest actions. At the same time customary reporting practices and the concentration of media ownership in a globalised economy present challenges to social movements attempting to present their concerns, views, issues and solutions to the wider community. Students will study particular social movements, communication strategies and topics such as: anti-racism movements and human rights reporting; the use of the media by the anti-globalisation organisations, labour movement and the environment movement and the mainstream media's reporting of their campaigns; feminism/s and the media; cyber actions and internet organising. Analysing both representational and promotional issues together will equip students to better understand and practically address organising and communication challenges facing social movements in both local and global contexts.

Level III

SOCI 3004

Social Research

- 6 units - semester 2
- 3 contact hours per week
- Prerequisite: 8 units Level II Humanities/Social Sciences
- Restriction: Social and Labour Research III
- Assessment: 4 practical exercises (incl. preparation & participation for seminars) 40%, textual analysis 25%, survey research assignment 35%; total 9000 words

Most of us, during our lives both at work and outside it, will be making use of research - whether as consumers of research understanding our communities, social, political and scientific worlds, or as employees reading and interpreting research results, or preparing them. This course gives students a solid grounding in the values, ethics and methods of social science research. It explores a range of approaches to research and their theoretical bases. The course requires active participation in weekly seminars where practical exercises and research simulations provide the means whereby students learn the basic principles of different research methods, including interview and survey techniques, grounded theory, discourse and content analysis. Each student will undertake two research assignments, one utilising existing textual data and the other a primary data collection study using survey/interview techniques. The course will develop and assess students' skills in all stages of the research process as well as in interpreting and evaluating research findings (research 'literacy').

SOCI 3005

The Media and Social Change

- 6 units - semester 2
- Lecture, 2 hour tutorial per week
- Prerequisite: 8 units Level II Humanities/Social Sciences
- Assessment: essays and other written work

Students will analyse the representation of various social movements in the mainstream news media. They will also examine media strategies pursued by various social movements in communicating with their constituencies, promoting their concerns, and organising campaigns. The rise of diverse social movements in the late twentieth century has challenged representational conventions and prqactices in both mainstream

and emerging media. New forms of alliance-building and the breaking down of traditional, rigid political oppositions has presented dilemmas for reporting of community and protest actions. At the same time customary reporting practices and the concentration of media ownership in a globalised economy present challenges to social movements attempting to present their concerns, views, issues and solutions to the wider community. Students will study particular social movements, communication strategies and topics such as: anti-racism movements and human rights reporting; the use of the media by the anti-globalisation organisations, labour movement and the environment movement and the mainstream media's reporting of their campaigns; feminism/s and the media; cyber actions and internet organising. Analysing both representational and promotional issues together will equip students to better understand and practically address organising and communication challenges facing social movements in both local and global contexts.

Soil and Water

Level I

SOIL&WAT 1000RW

Soils and Land Management Systems I

- 3 units - semester 2
- 2 lectures, 1 tutorial, 3 hours practical (or equiv) per week
- Assumed Knowledge: SACE Science courses
- Assessment: exam, tutorials, practical assignments

Agro-ecosystems face increasing pressure in Australia to become more productive, profitable and efficient, yet sustainable. This course describes how agricultural and ecological systems are linked to soils and Australian environment, and provides a basis from which sustainability issues can be addressed. Students will learn about the importance of soil physical, chemical and biological properties in the landscape in relation to management of soil fertility, water use efficiency, and land degradation. They will also learn about important ecological processes based in soils, as well as taking a whole-system approach to land management. Interpretation of soil maps will be considered in relation to land evaluation and suitability for different purposes and the concepts of indicators of sustainability will be introduced.

Level II

SOIL&WAT 2010RW

Ecosystems and Community Ecology

- 3 units - not offered in 2005
- 2 lectures, 5-day field camp (mid-semester break)
- Assumed Knowledge: APP ECOL 1003RW Biology of Plants and Animals, APP ECOL 1006RW Plant and Animal Diversity or equiv
- Restriction: SOIL&WAT 2001RW Community Ecology, SOIL&WAT 2002RW Natural Resource Management II B, SOIL&WAT 2004RW Natural Resource Management II A, ENV BIOL 1002 Environmental Biology I, ENV BIOL 2003 Ecology EB II
- Assessment: exam, practical assignments

The course examines major ecological principles applied at community and ecosystem levels and demonstrates these with reference to Australian ecosystems. At community level the topics are: concepts of community, detection and delineation of communities, community organization, succession and temporal change, species diversity measures and the stability/diversity controversy. Specific emphasis is given to Australian vegetation communities: present composition, structure, distribution and environmental determinants, historic development and change, biogeographic relationships, and current classification and mapping programs. At ecosystem level structural and functional components of ecosystems are analysed, leading to examination of energy transfers, primary and secondary productivities, ecological efficiency, nutrient movements and budgets and ecosystem dynamics. Distinctive characteristics of Australian ecosystems are emphasized: nutrient relationships in the forest, sclerophyll and arid ecosystems, comparative productivity and biodiversity. Theory is applied in practical work covering quantification of vegetation, sampling systems, ground survey, numerical classification and temporal survey.

SOIL&WAT 2011RW

Spatial Information and Land Evaluation

- 4 units - semester 1
- 3 lectures, 4 hours practical work per week
- Available for Non-Award study
- Restriction: SOIL&WAT 2007RW Resource Mapping and Survey
- Assessment: theory & practical exams, assignments

Introduction to maps and map design; types of maps - topographic, thematic, cadastral, photomaps, orthophotos and orthophotomaps; scale; references; datum and projections; mapping and accuracy standards; aerial photography - characteristics, resolution, acquisition, stereoscopic interpretation for landform and land cover; introduction to surveying; equipment and theoretical basics; types of surveys; identifying locations and navigation in the field; Global Positioning Systems - principles, accuracy and use; introduction to Geographic Information Systems; sources, acquisition and use of environmental spatial data, overview of major Australian and South Australian mapping programs and spatial information in government agencies; introduction to airborne and satellite remote sensing data and applications; resource mapping and data capture.

SOIL&WAT 2012WT

Soil and Water Resources

- 4 units - semester 1
- 3 lectures, 4 hours practical/tutorial per week
- Assumed knowledge: SOIL&WAT 1000RW Soils And Land Management Systems or GEOLOGY 1100 Earths Environment or GEOLOGY 1001 Environmental Geoscience I
- Restrictions: SOIL & WAT 2005WT Soil Resources

Soil and water are fundamental resources in the environment. This course aims to provide an understanding of important soil physical, chemical and biological properties and of water quality. Topics considered include: soil water retention, storage and movement, salinity, chemical fertility, the role of biology in soil processes, soil conservation and management, water quality factors and the impact of land management on these factors.

SOIL&WAT 2013RW

Introduction to Engineering in Agriculture

- 4 units - semester 1
- 3 lectures, 2 hours tutorial, 2 hours practical per week
- Restriction: CHEM ENG 1001 Engineering Physics

Engineering has made modern agriculture possible and knowledge of some aspects of this discipline may be used in the improved management of many enterprises. This course uses practical agricultural applications of engineering to illustrate engineering principles and assist managers. Topics in the course include tractor safety and performance, oil hydraulics, pumps, water supply systems, building materials, structural components, surveying, electrical supply systems and equipment and tension and electric fencing to illustrate the basic principles of engineering applied to machinery, fluids, structures and electricity.

Level III

SOIL&WAT 3002WT

Soil Management and Conservation

- 3 units - semester 1
- 2 lectures, 4 hours practical work (or equiv.) a week
- Prerequisite: SOIL&WAT 2005WT Soil Resources
- Assessment: exam, practical reports, other assignments.

This course covers topics important to students of agriculture, horticulture, environmental science and natural resource management. Degradative processes which pose the greatest threats to the soil resources of Australia are examined and their avoidance, management and amelioration are discussed. These processes include: erosion of soil by water and wind, water repellence, irrigation and dryland salinity, induced soil acidity, soil structure decline and sodicity. Other issues addressed are soil conservation legislation and land capability. Practical work will consist of laboratory exercises, field excursions and other exercises related to the above topics.

SOIL&WAT 3004WT

Environmental Toxicology and Remediation

- 3 units - summer semester
- Prerequisite: credit or higher in PLANT SC 1001RW Chemistry and Introductory Biochemistry A or a pass in CHEM 1000A/B Chemistry I or CHEM 1001A/B Chemistry IANR OR equivalent
- Restriction: SOIL&WAT 3004WT Environmental Toxicology
- Assessment: theory; practicals/assignments.

The goals of this course are to provide students with an understanding of the monitoring, fate and risk assessment of contaminants in environmental and biological systems. Classes of contaminants discussed include heavy metals, pesticides, and other water- soil- and food-borne toxicants. The properties of contaminants which influence their environmental distribution and transformations and the characteristics of the environment which influence contaminant toxicity to organisms are discussed. Students are introduced to the principles of toxicology necessary for an understanding of the environmental consequences of contaminants.

SOIL&WAT 3005WT

Research Project: Soil and Land Systems

- 3 units - semester 1 or 2
- 10 hours practical work per week (or equiv.) on projects
- Prerequisite: at least 55% in each of 2 level III courses offered by Discipline or equivalents acceptable to Head of Discipline
- Corequisite: 2 level III courses offered by Discipline other than those serving as prerequisites, or equivalents acceptable to Head
- Assessment: oral exam, seminar, written project report

The course consists of a small research project of the student's choosing on a topic acceptable to the Discipline of Soil and Land Systems. It will be undertaken during the 4th year of the program.

SOIL&WAT 3007WT

GIS for Environmental Management

- 3 units - summer semester
- 10 days during the summer vacation
- Available for Non-Award study
- Assumed Knowledge: basic computing skills in Windows environment
- Restriction: SOIL&WAT 3014WT GIS for Agricultural Sciences
- Assessment: practical exercises, case study, written exam

The course deals with concepts and theory of geographic information systems and their use for environmental mapping, spatial modelling and analysis. Topics covered include the relationship of GIS models to real world perception and map representation, vector and raster systems; spatial modelling; translation of problems into GIS procedures; attribute manipulation and recoding, operations including arithmetic and Boolean overlay, reclassification, proximity and neighbourhood analyses; input of data to GIS; database structures; interpolation of surfaces form point and vector data; applications and case studies. Practical work uses PC-based software to teach basic skills in GIS data entry, analysis and output, emphasising a problem-solving approach through environmental and agricultural GIS case studies.

SOIL&WAT 3008WT

Remote Sensing for Environmental & Agricultural Sciences

- 3 units - not offered in 2005
- Assumed Knowledge: basic computing skills in Windows environment
- Restriction: GEOLOGY 3010 Remote Sensing (S)
- Assessment: practical exercises; written exam

The course deals with use of satellite and airborne imagery for environmental and agricultural applications such as land mapping, site evaluation and monitoring degradation and change. Topics include the interaction of electromagnetic radiation with the earth's surface, spectral characteristics of earth surface materials, the nature of imagery collected by a variety of current earth-observation sensors, the use of this imagery for detecting, mapping and monitoring environmental features, collection of field data to interpret imagery, integration of remote sensing and geographic information systems (GIS) for environmental monitoring and modelling, and specialised forms of imagery such as radar, thermal, airborne video and digital photography. Practicals use computer-based image analysis software to enhance and interpret digital images, produce thematic maps, analyse change over time and combine images and map data. Field-based practicals include the use of spectroradiometers for collecting reflectance data about land cover.

SOIL&WAT 3012WT

Soil Water Management

- 3 units - semester 2
- 2 lectures, 4 hours practical work (or equivalent) per week
- Prerequisite: SOIL&WAT 2005WT Soil Resources
- Assessment: exam, tutorials, practical reports

This course covers the theory and practice of measuring and managing soil water using commercially available technology. Topics include soil water content and potential, water availability to plants, water movement in unsaturated and saturated soils, soil structure and salt-affected soils. Computers will be used to model infiltration, storage and movement of soil water, and to solve problems. Practical classes will demonstrate important techniques in soil survey for managing soil water in dryland and irrigated situations.

SOIL&WAT 3014WT

GIS for Agricultural Sciences

- 3 units - mid-semester break, semester 2
- Available for Non-Award study
- Assumed Knowledge: basic computing skills in Windows environment
- Restriction: SOIL&WAT 3007WT GIS for Environmental Management, SOIL&WAT 7025WT GIS for Agricultural Sciences
- Assessment: case study, practical assessments, written exam

Geographic information systems have become an important tool far beyond the geographic disciplines. Applications in the agricultural sciences range from simple cartographic tools to precision fertilizer applications and growth models. This course gives an overview of the history and the rapid recent development of this technology and gives examples of commercially available state-of-the-art equipment. Hands on computer exercises involve data capture, processing and presentation of results. Special emphasis is placed on precision agriculture and the optimal and timely treatment of spatial variability in agricultural production systems. Students will learn what can be seen from space and airborne remote sensing and how this information can be combined with other sources of information in order to minimize effort and optimize production.

SOIL&WAT 3016WT

Soil Ecology and Nutrient Cycling

- 3 units - semester 1
- 2 lectures, 4 hours practical work (or equivalent) a week
- Prerequisite: SOIL&WAT 2005WT Soil Resources or SOIL&WAT 1000RW Soils, and Land Management Systems II
- Assessment: exam, practical reports, presentation of case studies

The course will provide students with a comprehensive view of ecological interactions in soils. It deals with the interactions between plants, soil and soil organisms, the roles played by soil organisms in decomposition of organic material, nutrient cycling (C, N, P) and stability of agricultural and natural ecosystems. Other topics include food webs, the importance of soil organisms for soil fertility, mycorrhizas and their effects on plant productivity and plant communities, bio-control and bioremediation, root growth and the biology of the rhizosphere.

Honours

SOIL&WAT 4000WT

Honours Soil & Land Systems (B.NR.Mgt.)

- 24 units - full year
- Prerequisite: credit or higher in at least 2 Level III courses approved by Head of Discipline
- Requirement: substantial research project of student's choosing (on topic acceptable to Discipline) under supervision of an examining committee (including academic staff members) approved by Head of Discipline, non-research component, including coursework, essays or other assignments relevant to student's Honours project and approved by Head of Discipline
- Assessment: research proposal, final seminar, thesis, viva voce 80%, weighted average of non-research component 20%

Intending candidates should consult the Head of Discipline, Honours Coordinator and potential supervisors during third year and be prepared to begin studies at the beginning of February or July.

SOIL&WAT 4001WT

Honours Soil & Land Systems (B.Sc.)

- 24 units - full year
- Prerequisite: credit or higher standard in at least two Level III courses approved by the Head of Discipline.
- Requirement: substantial research project of student's choosing (on topic acceptable to Discipline) under supervision of an examining committee (including academic staff members) approved by Head of Discipline, non-research component, including coursework, essays or other assignments relevant to student's Honours project and approved by Head of Discipline
- Assessment: research proposal, final seminar, thesis, viva voce 80%; weighted average of non-research component 20%

Intending candidates should consult the Head of Discipline, Honours Coordinator and potential supervisors during third year and be prepared to begin studies at the beginning of February or July.

SOIL&WAT 4002WT

Honours Soil & Land Systems (B.Ag.)

- 24 units - full year
- Prerequisite: credit or higher standard in a least 2 Level III courses approved by Head of Discipline
- Requirement: substantial research project of student's choosing (on topic acceptable to Discipline) under supervision of an examining committee (including academic staff members) approved by Head of Discipline, non-research component, including coursework, essays or other assignments relevant to student's Honours project and approved by Head of Discipline
- Assessment: research proposal, seminars, thesis, viva voce 80%, weighted average of non-research component 20%

Intending candidates should consult the Head of Discipline, Honours Coordinator and potential supervisors during third year and be prepared to begin studies at the beginning of February or July.

SOIL&WAT 4003WT

Honours Environmental Science (Soil & Land Systems)

- 12 units - full year
- Prerequisite: credit or higher standard in at least two Level III courses approved by the Head of Discipline
- Requirement: modest research project of student's choosing (on topic acceptable to Discipline) normally taken at same time as coursework (4 Level III courses relevant to student's Honours project and approved by Head of Discipline - 12 units)
- Assessment: research proposal, seminars, thesis, viva voce 60%, average of 4 specified Level III courses 40%

Intending candidates should consult the Head of Discipline, Honours Coordinator and potential supervisors during the third year and be prepared to begin studies at the beginning of February or July.

SOIL&WAT 4009WT

Honours Soil & Land Systems (B.Ag.Sc.)

- 12 units - full year
- Prerequisite: credit or higher standard in at least two level III courses approved by the Head of Discipline
- Requirement: modest research project of student's choosing (on topic acceptable to Discipline) normally taken at same time as coursework (4 Level III courses relevant to student's Honours project and approved by Head of Discipline - 12 units)
- Assessment: research proposal, seminars, thesis, viva voce 60%, average of the four level III courses referred to above 40%

Intending candidates should consult the Head of Discipline, Honours Coordinator and potential supervisors during the third year and be prepared to begin studies at the beginning of February or July.

Spanish

Level I

SPAN 1001

Spanish I Part 1

- 3 units - semester 1
- 5 hours per week
- Assessment: periodic tests of listening comprehension & writing skills, oral exam, written exam

This course uses the latest communicative approaches to language by stressing involvement in two sorts of activities: those relating directly to students, their interests and lives, and those relating to the worlds of Spain and Latin America. The primary goal is to teach

students to interact in Spanish as naturally and as spontaneously as possible. First year students who have completed SACE Stage 2 Spanish or have an equivalent knowledge of the language should enrol in the advanced stream.

SPAN 1002

Spanish I Part 2

- 3 units - semester 2
- 5 hours per week
- Prerequisite: SPAN 1001 Spanish I Part 1 or permission of Director of Studies
- Assessment: periodic tests of listening comprehension & writing skills, oral exam, written exam

This course is for those who have completed Spanish I Part 1 or have an equivalent introduction to the language. It uses the latest communicative approaches to language by stressing involvement in two sorts of activities: those relating directly to students, their interests and lives, and those relating to the worlds of Spain and Latin America. The primary goal is to encourage students to feel free to interact in Spanish as naturally and as spontaneously as possible. First year students who have completed SACE Stage 2 Spanish or have an equivalent knowledge of the language and have passed SPAN 1001 should enrol in the advanced stream.

Level II

SPAN 2001

Spanish II Part 1

- 4 units - semester 1
- 4 - 5 hours per week
- Prerequisite: SPAN 1002 Spanish I Part 2 or permission of Director of Studies
- Assessment: periodic tests of aural comprehension & writing skills, oral exam, aural & written exam

This course consolidates and extends the language work done in level I and provides further practice through grammar and composition exercises. It also further develops the aural/oral communication skills of the student through continuous oral practice in the classroom and computer laboratory activities. The readings and cultural component will focus on contemporary issues pertaining to Hispanic countries. Second year advanced students should enrol in the advanced stream.

SPAN 2002

Spanish II Part 2

- 4 units - semester 2
- 4 - 5 hours per week.
- Prerequisite: SPAN 2001 Spanish II Part 1 or permission of Director of Studies
- Assessment: periodic tests of aural comprehension & writing skills, oral exam, aural & written exam

This course consolidates and extends the language work done in Spanish II Part 1 and provides further practice through grammar and composition exercises. It also further develops the aural/oral communication skills of the student through continuous oral practice in the classroom and computer laboratory activities. The readings and cultural component will continue to focus on contemporary issues in Hispanic countries. Second year advanced students should enrol in the advanced stream.

Level III

SPAN 3001

Spanish III Part 1

- 6 units - semester 1
- 5 hours per week
- Prerequisite: SPAN 2002 Spanish II Part 2 or permission of Director of Studies
- Assessment: language section & elective modules with a strong language component - written activities, written & oral exams; cultural components - essays, class presentations.

This course has two parts. A core component comprises classes in Spanish language, conversation and literature which builds on and consolidates the language learning of the Level I and II courses. This component is compulsory for all students majoring in Spanish. The second component comprises different units taken from modules offered by the Spanish department, including Spanish and Latin American Culture, Film, and Spanish Translation (not all modules are offered every year).

Third year advanced students should enrol in this course. A special timetable for these students can be obtained by contacting the Spanish section at Flinders University (8201 2124).

SPAN 3002

Spanish III Part 2

- 6 units - semester 2
- 5 hours per week
- Prerequisite: SPAN 3001 Spanish III Part 1 or permission of Director of Studies
- Assessment: language section & elective modules with a strong language component - written activities, end of semester written & oral exams; cultural components - essays, class presentations

This course comprises two parts. A core component comprises classes in Spanish Language, Conversation and Literature which builds on and consolidates the language learning of Spanish III Part 1. This component is compulsory for all students majoring in Spanish. The second component comprises different units taken from modules offered by the Spanish department, including Spanish and

Latin American Culture, Film, and Spanish Translation (not all modules will be offered every year). Third year advanced students should enrol in this course. A special timetable for these students can be obtained by contacting the Spanish section at Flinders University (8201 2124).

Statistics

Level I

STATS 1000
Statistical Practice I

- 3 units - semester 1 & 2
- 3 lectures, 1 tutorial, 1 hour practical per week
- Available for Non-Award study
- Assumed Knowledge: SACE stage 2 Mathematical Methods or equivalent
- Restriction; cannot be counted with STATS 1004 Statistical Practice I (Life Sciences), ECON 1008 Business Data Analysis I or STATS 2004 Laplace Transforms and Probability and Statistical Methods or APP MTH 2009 Numerical Analysis and Probability and Statistics or STATS 2001 Statistical Methods (Civil)
- Assessment: 3 hour exam, assignments, mid-semester test

This course is an introduction to the application of statistical methods to experimental and observational data. It is designed to provide students in all areas with a sound practical knowledge of frequently used statistical methods and quantitative thinking. Topics covered include the organisation, description and presentation of data; the design of experiments and surveys; random variables and probability distributions; binomial distributions; continuous distributions; the normal distribution; the use of inference to draw conclusions from data; tests of significance for means; confidence intervals; goodness of fit tests; the t and chi-square distributions; fitting straight lines to data; the method of least squares; regression and analysis of variance.

The lecture material will include case studies and examples chosen to illustrate the application of statistical methods in a broad range of applications. Students will be introduced to the statistical package SAS which will be used throughout the course.

STATS 1002RW
Data Management and Interpretation

- 3 units - semester 2
- 3 lectures, 3 computer lab sessions/tutorials per week
- Available for Non-Award study
- Eligibility: not available to B.Ma.& Comp.Sc. or B.Comp.Sc. students
- Assumed Knowledge: Stage 2 Business Mathematics, Applied Mathematics or Mathematics I
- Assessment: exam 70%, assignments and major project 30%

This course is an introduction to the quantitative methods used in agriculture and nature resource management. Statistical topics include the organisation, description and presentation of data; the design of experiments; the use of inference to draw conclusions from data; tests of significance for mean and proportions; confidence intervals; goodness of fit tests; regression and analysis of variance. Biomathematical topics include the construction and use of mathematical models, and an introduction to calculus.

STATS 1004
Statistical Practice I (Life Sciences)

- 3 units - semester 2
- 3 lectures, 1 tutorial, 1 hour practical per week
- Available for Non-Award study
- Assumed Knowledge: SACE stage 2 Mathematical Methods Mathematics I or equivalent
- Restriction; cannot be counted with STATS 1000 Statistical Practice I, ECON 1008 Business Data Analysis I or STATS 2004 Laplace Transforms and Probability and Statistical Methods or APP MTH 2009 Numerical Analysis and Probability and Statistics or STATS 2001 Statistical Methods (Civil)
- Assessment: 3 hour exam, assignments, mid-semester test

This course is an introduction to the theory and application of statistical methods to experimental and observational data. It is designed to provide students in the life sciences with a sound practical knowledge of commonly relevant statistical methods methods and quantitative thinking. Suitable for students who are likely to be users of statistical methods in the future, or who intend to pursue a degree in mathematical sciences. Topics covered include the organisation, description and presentation of data; the design of experiments and surveys; probability and relative frequency; random variables and probability distributions; binomial distributions; continuous distributions; the normal distribution; the use of inference to draw conclusions from data; tests of significance for means; confidence intervals; goodness of fit tests; the t and chi-square distributions; fitting straight lines to data; the method of least squares; regression and analysis of variance.

The lecture material will include a case studies and examples chosen to illustrate the application of statistical methods in the context of the life sciences. Students will be introduced to the statistical package SAS which will be used throughout the course.

Level II

STATS 2002

Introduction to Mathematical Statistics II

- 2 units - semester I
- 2 lectures per week, I tutorial per fortnight
- Available for Non-Award study
- There is a textbook for this course
- Prerequisite: MATHS 1012Mathematics IB (Pass Div I), or MATHS 2004 Mathematics IIM (Pass Div I) or corequisite MATHS 2004 Mathematics IIM.
- Assessment: 2 hour exam, assignments

This course provides the mathematical foundations of modern statistical inference and its applications. Topics include probability, sample spaces, events, equally likely outcomes; chance odds and odds ratios; relative frequency and Bayesian interpret-ations of probability; conditional probability and independence; sequences of events; Bayes' Rule and Bayes' Odds. Discrete random variables: expected values, expectations of functions of random variables; the Bernoulli and geometric distributions; the binomial and hyper-geometric distributions; normal approximation to the binomial; the Poisson distribution; moment generating functions; Markov's Inequality and Tchebyshev's Inequality. Continuous random variables: the cumulative distribution and probability density functions; the uniform, normal and Cauchy distributions; the exponential distribution, hazard and survival functions; Poisson processes; Gamma and chi-square distributions. Bivariate and multivariate distributions for discrete and continuous random variables; marginal and conditional distributions; independence; covariance and correlation; moments for linear combinations of random variables; the multinomial distribution. Three different methods for finding the distribution of a function of random variables: distribution functions, transformations, and moment generating functions.

STATS 2003

Statistical Practice II

- 2 units - semester 1
- 2 lectures, 1 hour tutorial or practical, per week
- Available for Non-Award study
- Prerequisite: one of STATS 1000 Statistical Practice I (Pass Div I), STATS 1004 Statistical Practice I (Life Sciences) (Pass Div 1), STATS 2004 Laplace Transforms and Probability and Statistical Methods (Pass), APP MTH 2009 Numerical Analysis and Probability .and Statistics (Pass), STATS 2001 Statistical Methods (Civil) (Pass)*
- Assumed Knowledge: either MATHS 1007A/B Mathematics I or MATHS 1000A/B Mathematics IM or MATHS 1001 Mathematics IH
- Assessment: 2 hour exam, assignments, project work

This course is an extension of Statistical Practice I, providing a broader and deeper understanding of the application of statistical methods to data. Topics covered include randomisation, blocking and the design and analysis of experiments; analysis of variance; elementary factorial designs; linear and multiple regression, regression diagnostics, the analysis of residuals; the design and analysis of surveys, methods of sampling, the analysis of frequency data; power; elementary distribution-free methods such as the sign test and rank tests.

* In exceptional circumstances, on approval of the Faculty and Course Coordinator, 9101 Business Data Analysis will be accepted

STATS 2004

Laplace Transforms & Probability & Statistical Methods

- 2 units - semester 2
- 36 hours lectures, tutorials & practicals
- May be available for Non-Award study - contact department for details
- Eligibility: not available to B.Ma.& Comp.Sc. or B.Comp.Sc. students
- Prerequisite: MATHS 1012 Mathematics IB (Pass Div I) or MATHS 2004 Mathematics IIM
- Restriction: may not be presented with APP MTH 2009 Numerical Analysis and Probability and Statistics, 6877 Probability and Statistical Methods, STATS 2001 Statistical Methods (Civil), APP MTH 2003 Modelling with Differential Equations II taken from 2002, APP MTH 2006 Methods in Applied Mathematics II taken before 2002
- Assessment: final exam, small percentage allocated to class exercises and computing, satisfactory performance in computing exercises is a necessary prerequisite for a pass in this course

Laplace transforms of derivatives and integrals, applications to differential equations (approx. 8 lectures). Probability calculus. Statistical methods: estimation of means and variances; inferences on means; simple analysis of variance; simple linear regression; inferences on probabilities; contingency tables (approx. 16 lectures).

STATS 2011

Statistical Modelling II

- 2 units - semester 2
- 2 lectures,1 hour tutorial or practical, per week
- May be available for Non-Award study
- Prerequisite: MATHS 1012 Mathematics IB (Pass Div I) or MATHS 2004 Mathematics IIM (Pass Div I). One of STATS 1000 Statistical Practice I (Pass Div I), STATS 1004 Statistical Practice (Life Sciences) (Pass Div 1), STATS 2004 Laplace Transforms and Probability and Statistical Methods (Pass), APP MTH 2009 Numerical Analysis and Probability and Statistics (Pass), STATS 2001 Statistical Methods (Civil) (Pass)

- Assumed Knowledge: STATS 2002 Introduction to Mathematical Statistics II
- Assessment: 2 hour exam, class exercises, practicals

Estimation. Properties of estimators: unbiasedness, consistency, efficiency, sufficiency. Method of moments. Maximum likelihood: score, information, large sample properties. Minimum variance bound. Tests of hypotheses. Type I, II errors, significance level, power. Likelihood ratio, and other large-sample equivalents. Interval estimation. Confidence intervals. An introduction to linear models, and Analysis of Variance. An introduction to, and examples using R, will be included.

Level III

STATS 3000
Industrial Statistics III

- 2 units - semester 1
- 2 lectures per week, 1 tutorial, 1 hour practical every 3 weeks
- Available for Non-Award study
- Prerequisite: MATHS 10012 Mathematics IB (Pass Div I) or MATHS 2004 Mathematics IIM (Pass Div I). One of STATS 1000 Statistical Practice I (Pass Div I), STATS 1004 Statistical Practice (Life Sciences) (Pass Div 1), STATS 2004 Laplace Transforms and Probability and Statistical Methods (Pass), APP MTH 2009 Numerical Analysis and Probability and Statistics (Pass), STATS 2001 Statistical Methods (Civil) (Pass)
- Assessment: 2 hour exam, class exercises, practicals, project work

The Deming philosophy of quality; design and use of control charts for attributes and variables; process capability; CUSUM charts; the 7 tools of Total Quality Control; industrial experiments, particularly fractional factorial and response surface designs; Taguchi methods; signal/noise ratios; components of variance; measurement error.

STATS 3001
Statistical Modelling III

- 3 units - semester I
- 5 lectures, 1 hour tutorial or practical, every 2 weeks
- Available for Non-Award study
- Prerequisite: MATHS 10012 Mathematics IB (Pass Div I) or MATHS 2004 Mathematics IIM (Pass Div I); One of STATS 1000 Statistical Practice I (Pass Div I), STATS 1004 Statistical Practice (Life Sciences) (Pass Div 1), STATS 2004 Laplace Transforms and Probability and Statistical Methods (Pass), APP MTH 2009 Numerical Analysis and Probability and Statistics (Pass), STATS 2001 Statistical Methods (Civil) (Pass)
- Assumed Knowledge: a statistical background such would be gained from any of the Level II Statistics courses
- Assessment: 2 hour exam, class exercises, practicals

This course aims to provide students with further fundamental work on modelling in statistics. The linear model. Least squares estimation: geometry of least squares, orthogonal projection, properties of estimators. Regression. Large sample approximation. Transformations, model selection, diagnostics, nonlinear regression. Introduction to generalised linear models; loglinear models.

STATS 3002
Environmental Statistics III

- 3 units - not offered in 2005
- 2 lectures per week; 1 tutorial, 1 hour practical every 2 weeks
- Available for Non-Award study
- Prerequisite: MATHS 1012 Mathematics IB (Pass Div I) or MATHS 2004 Mathematics IIM (Pass Div I). One of STATS 1000 Statistical Practice I (Pass Div I), STATS 1004 Statistical Practice (Life Sciences) (Pass Div 1), STATS 2004 Laplace Transforms and Probability and Statistical Methods (Pass), APP MTH 2009 Numerical Analysis and Probability and Statistics (Pass), STATS 2001 Statistical Methods (Civil) (Pass)
- Assumed Knowledge: a statistical background such would be gained from any of the Level II Statistics courses
- Assessment: 2 hour exam, class exercises, practicals

The course provides a coverage of statistical methods as applied in the environmental sciences. The syllabus will include topics such as Sampling: sampling over time, sampling spatially, capture-recapture methods. Measurement issues:what to measure, how to measure, assessing reliability and accuracy of measurement techniques. Testing and estimation: assessing whether regulated environmental standards are met, the difference between importance and significance, power and sample size calculations. Model building and checking: building physical and empirical models. Simulation: simulation methods as a means of testing significance. The statistical package S-PLUS, which has an Environmental module, will be used.

STATS 3003
Sampling Theory and Practice III

- 3 units - not offered in 2005
- 2 lectures, 1 tutorial, 1 hour practical per week
- Available for Non-Award study
- Prerequisite: MATHS 1012 Mathematics IB (Pass Div I) or MATHS 2004 Mathematics IIM (Pass Div I). One of STATS 1000 Statistical Practice I (Pass Div I), STATS 1004 Statistical Practice (Life Sciences) (Pass Div 1), STATS 2004 Laplace Transforms and Probability and Statistical Methods (Pass), APP MTH 2009 Numerical Analysis and Probability and Statistics (Pass),STATS 2001 Statistical Methods (Civil) (Pass)
- Assumed Knowledge: a statistical background such as would be gained from any of the Level II Statistics courses
- Assessment: 2 hour exam, class exercises, practicals

Introduction: experiments and surveys; steps in planning a survey. Statistical characterisations of finite populations; total, mean, variance, mean square. Randomisation approach to sampling and estimation; sampling distribution of estimator; expected values, variances; generalisation of probability sampling. Prediction approach; inadequacies of approach; decomposition of population total; concomitant variables. Models: regression through the origin; estimation by least squares; ratio estimator; variance formulas. Balance and robustness; best fit sample. Stratified sampling; estimation; allocation; construction of strata; stratification on size variables; post-stratification. Two stage sampling; estimation; allocation. Cluster sampling.

STATS 3005
Time Series III

- 3 units - semester 2
- 2 lectures, 1 hour tutorial or practical, per week
- Available for Non-Award study
- Prerequisite: MATHS 1012 Mathematics IB (Pass Div I) or MATHS 2004 Mathematics IIM (Pass Div I). One of STATS 1000 Statistical Practice I (Pass Div I), STATS 1004 Statistical Practice (Life Sciences) (Pass Div 1), STATS 2004 Laplace Transforms and Probability and Statistical Methods (Pass), APP MTH 2009 Numerical Analysis and Probability and Statistics (Pass), STATS 2001 Statistical Methods (Civil) (Pass)
- Assumed Knowledge: a statistical background such as would be gained from any of Level II Statistics courses
- Assessment: 2 hour exam, assignments

A time series consists of values of a variable recorded at regular intervals over a long period of time. Such data arise frequently in econometrics, finance, engineering, medicine, sociology and environmetrics, and require special methods for analysis because neighbouring observations are correlated.

This course provides an introduction to time series analysis and topics covered include descriptive methods of analysis: plots, smoothing, differencing, the autocorrelation function, the correlogram and the variogram; the periodogram; estimation and elimination of trend and seasonal components. Stationary processes, modelling and forecasting with autoregressive moving average (ARMA) models. Spectral analysis: the fast Fourier transform, periodogram averages and other smooth estimates of the spectrum; time-invariant linear filters. Nonstationary and seasonal time series models; ARIMA processes: identification, estimation and diagnostic checking; forecasting, including extrapolation of polynomial trends, exponential smoothing, and the Box-Jenkins approach.

STATS 3006
Mathematical Statistics III

- 3 units - semester 1
- 5 lectures,1 hour tutorial every two weeks
- Available for Non-Award study
- Prerequisite: MATHS 1012 Mathematics IB (Pass Div I) or MATHS 2004 Mathematics IIM (Pass Div I). One of STATS 1000 Statistical Practice I (Pass Div I), STATS 1004 Statistical Practice (Life Sciences) (Pass Div 1), STATS 2004 Laplace Transforms and Probability and Statistical Methods (Pass), APP MTH 2009 Numerical Analysis and Probability and Statistics (Pass), STATS 2001 Statistical Methods (Civil) (Pass)
- Assumed Knowledge: STATS 2011 Statistical Modelling II
- Assessment: 2 hour exam, class exercises

This course aims to provide students with fundamental distribution theory together with the underlying basics in statistical inference. It forms the basis upon which the remaining courses are built. Calculus of distributions. Moments and cumulants. Moment generating functions. Multivariate distributions: Marginal and conditional distributions, Conditional expectation and variance operators, Change of variable, multivariate normal distribution, Exact distributions arising in Statistics. Convergence results: weak convergence, convergence in distribution, Central Limit Theorem. Statistical Inference. Likelihood, score and information. Estimation and properties of estimators: sufficiency, efficiency, consistency, maximum likelihood estimators, large sample properties. Tests of hypotheses: likelihood ratio, score and Wald tests, large sample properties.

STATS 3008
Biostatistics III

- 3 units - not offered in 2005
- 2 lectures, 1 hour tutorial or practical, per week
- Available for Non-Award study
- Prerequisite: MATHS 1012 Mathematics IB (Pass Div I) or MATHS 2004 Mathematics IIM (Pass Div I). One of STATS 1000 Statistical Practice I (Pass Div I), STATS 1004 Statistical Practice (Life Sciences) (Pass Div 1), STATS 2004 Laplace Transforms and Probability and Statistical Methods (Pass), APP MTH 2009 Numerical Analysis and Probability and Statistics (Pass), STATS 2001 Statistical Methods (Civil) (Pass)
- Assumed Knowledge: a statistical background such as would be gained from any of the Level II Statistics courses
- Assessment: 2 hour exam, assignment

This course provides students with fundamental knowledge of the design and analysis of clinical trials and epidemiological studies, and important methods for the analysis of biostatistical data. Topics covered include the role of randomization and ethical

considerations; Phase I to Phase IV trials; the Data and Safety Monitoring Board; methods of randomization: unrestricted and restricted randomization, random permuted blocks, biased coin designs, stratification, minimization; trial size: fixed, sequential and group sequential trials; factorial trials, crossover trials and equivalence trials. Epidemiology: cohort, case-control and related epidemiological studies; models for disease association: relative risk, odds ratio, attributable risk. Diagnostic tests and screening; meta-analysis; survival analysis.

STATS 3010

Experimental Design III

- 3 units - not offered in 2005
- 2 lectures per week, 1 tutorial,1 hour practical every 2 weeks
- Available for Non-Award study
- Prerequisite: MATHS 1012 Mathematics IB (Pass Div I) or MATHS 2004 Mathematics IIM (Pass Div I). One of STATS 1000 Statistical Practice I (Pass Div I), STATS 1004 Statistical Practice (Life Sciences) (Pass Div 1), STATS 2004 Laplace Transforms and Probability and Statistical Methods (Pass), APP MTH 2009 Numerical Analysis and Probability and Statistics (Pass), STATS 2001 Statistical Methods (Civil) (Pass).
- Assumed Knowledge: a statistical background such as in any 2 Level II Statistics courses
- Assessment: 2 hour exam, class exercises, practicals

Principles of experimental design, including randomisation, replication and blocking. Factorial experiments, confounding and fractional replication. Split plot designs, other multi-stratum experiments and their analysis. Incomplete block designs, canonical efficiencies and analysis by generalised sweeps. There will be an emphasis on practical aspects of the course. R will be used throughout.

STATS 3011

Bioinformatics III

- 3 units - semester 2
- 2 lectures, 1 hour tutorial or practical per week
- Available for Non-Award study
- Prerequisite: MATHS 1012 Mathematics IB (Pass Div I) or MATHS 2004 Mathematics IIM (Pass Div I); one of STATS 1000 Statistical Practice I (Pass Div I), STATS 1004 Statistical Practice (Life Sciences) (Pass Div 1), STATS 2004 Probability and Statistical Methods (Pass), APP MTH 2009 Numerical Analysis and Probability and Statistics (Pass), STATS 2001 Statistical Methods (Civil) (Pass).
- Assumed Knowledge: a statistical background such as would be gained from any of the Level II Statistics courses
- Assessment: 2 hour exam, assignments

This course provides students with knowledge and skills in statistical bioinformatics. Topics covered include basic notions and terminology from biology and genetics; gene expression analysis; two-colour microarrays: image processing, data pre-processing and normalisation; empirical and graphical methods for 'low-level' analysis of microarray data; density smoothing and lowess curves. Hypothesis testing: non-parametric and permutation tests; bootstrap estimation and testing; the multiple-testing problem: step-down methods, computer-intensive methods, false discovery rates; the Bayesian approach to hypothesis testing and estimation. Discriminant analysis and cluster analysis. Biological sequence analysis; Poisson processes and Markov chains; the analysis of one DNA sequence; the analysis of multiple DNA or protein sequences; random walks and sequential analysis theory leading to BLAST; Hidden Markov Models (HMM) and applications.

Honours

STATS 4000

Honours Statistics (B.A. Or B.Sc.)

- 24 units - full year
- Students are required to consult Head of Applied Mathematics preferably no later than the end of the year preceding enrolment, to ensure the necessary proposed prerequisite knowledge at a satisfactory standard - all students are required to obtain approval of Head of School before enrolling
- Prerequisite: major in Statistics at sufficiently high standard
- Assessment: 3 hour exam for each course at end of semester in which the course is offered, Honours project, seminar

Students with a different background of third-year courses may be accepted at the discretion of the Head of the School of Applied Mathematics.

The lecture program will be determined from year to year. Students will be required to make a selection from courses offered by the Schools of Mathematical and Computer Sciences and by such other schools as may be agreed to by the School of Applied Mathematics. Some compulsory courses may be prescribed. Each student will be assigned a supervisor who will advise on the choice of lecture program and give guidance in the writing of a project. Work on this project should begin in the School in the first week of February and should be completed by the end of the second semester's lecture program.

STATS 4001

Reliability and Quality Control

- 2 units - semester 1
- 28 hours lectures & tutorials or equivalent
- Assumed Knowledge: STATS 2004 Laplace Transforms and Probability and Statistical Methods
- Assessment: assignments, exam

Reliability; definitions, types of failure, confidence levels, mtbf concepts, predication of reliability from life test data. Quality control and assurance: definition of quality, data presentation, quality control methods. Total quality management: measurement and audit methods. Quality improvement.

STATS 4003

Honours.Statistics and Computer Science

- 24 units - full year
- Prerequisite: completion of a major in Statistics at sufficiently high standard; major in Computer Science - passes at standard satisfactory to the Head of School in a suitable collection of Level II and III courses in Schools of Mathematical and Computer Sciences. Students with a different background at Level II and III may be accepted at the discretion of the Head of School

Candidates are required to undertake at least 3 Honours level Computer Science options and at least 3 Honours level Statistics options. Other topics may be included at the discretion of the Heads of both Schools. A project will involve interdisciplinary work at the interface of Statistics and Computer Science and may be taken in either Schools. The size of the project is determined by the Discipline in which it is undertaken.

Refer to STATS 4000 Honours Statistics and COMP SCI 4999 Honours Computer Science for further information.

Viticulture

Level II

VITICULT 2002WA

VITICULT 2002WT

Viticultural Science

- 4 units - semester 1
- 3 lectures, 4 hours practical per week
- Assumed knowledge: Oenology 1018NW Foundations of Wine Science, Biology I: Organisms; Biology I: Molecules, Genes & Cells
- Assessment: written exam 50%, practical reports 40%, practical exam 10%

Viticultural Science covers the entire life cycle of the cultivated grapevine with an emphasis on fruit production for wine making. The practical component of the course takes advantage of the vine growth phases that occur from flowering and fruit-set leading up to harvest. Topics covered include: The growth cycle of the grapevine and the biology that underpins the different phenological stages. Grapevine physiology as it is relevant to growth and vine form, flowering, water use, mineral nutrition, berry development and ripening. Grapevine anatomy of the vegetative and reproductive parts. Techniques to monitor berry maturity development, and yield potential. Taxonomy of grapevines, characteristics of fruiting varieties and variety identification. Tutorial and practical sessions will focus in more depth on the following topics: vine and bud anatomy, shoot and fruit based variety identification, and yield estimation, canopy measurements and maturity sampling.

VITICULT 3005WT

Grape Industry Practice, Policy and Communication

- 2 unit - semester 1 (second half)
- 7 hours lectures/seminars/tastings per week
- Prerequisite: Oenology students - OENOLOGY 3011WT Winemaking; Viticultural Science students - VITICULT3004WT Viticultural Production A or VITICULT 3018WT Viticultural Production B
- Assessment: written assignments, seminar participation, presentation

The aims of the course are the development of a mature understanding of wine in society, the refinement of students abilities in written and spoken communication and the provision of a forum for the exchange of information between students and wine industry professionals. Invited speakers explore important issues including occupational health and safety, alcohol awareness and current practices in Australia and the world. Emphasis is placed on student participation in questions, discussions and sensory sessions.

VITICULT 3019WT

Industry Experience (Viticulture) B

- 6 units - summer vacation, semester 1
- 15 weeks
- Prerequisite: AGRONOMY 3015WT Viticultural Engineering and Operations
- Restriction: VITICULT 3043WT Industry Experience A (9079). Available only to viticulture majors
- Assessment: detailed practical report & case study, employers report, assignments, oral presentation before end of semester 1

Work experience in an approved viticultural enterprise. Experience in a range of operations which must include vintage operations such as scheduling intake to winery, sampling, mechanical harvesting, handling, transportation, quality assessment in the field and at the crusher, grape receival and weighbridge operations. A detailed description of an approved viticultural business enterprise including documentation of the physical resources, financial and managerial aspects of the business; detailed assessment of the practices associated with the vineyard to evaluate the efficiency of the operations; and preparation of a plan and recommendations to management about the future operations of the business.

VITICULT 3020WT

Table and Drying Grape Production

- 2 units - orientation week, first half of semester 1
- 6 hours per week including field trips
- Prerequisite: VITICULT 2002WT Viticultural Science or HORTICUL 3001WT Horticultural Systems
- Assessment: assignments 30%, written exam 70%

Table grape production: varieties; genetic improvement; vineyard design; techniques to improve table grape quality particularly crop load adjustment and growth regulators; harvesting and handling including maturity standards, harvest methods, packing, postharvest handling, marketing. Dried grape production: climatic requirements, principles of grape drying; treatments to enhance drying; dried grape product types; preparation for harvest; harvesting and handling of fresh grapes for drying and trellis dried fruit; finish drying and dehydration; classing, processing and marketing.

VITICULT 3021WT

Viticultural Production

- 3 units - semester 2
- 2 two hour lectures a week/12 weeks
- Eligibility: viticulture and oenology majors only
- Prerequisite: VITICULT 2002WT Viticultural Science
- Restriction: VITICULT 3004WT Viticultural Production A, VITICULT 3018WT Viticultural Production B, VITICULT 3017WT Viticultural Production B (Oenology), VITICULT 3022WT Viticultural Production A (Oenology)
- Assessment: exam, assignments

Principles behind the establishment of a viticultural enterprise comprising site selection, choice of planting material and the design and establishment of the vineyard. Trellising design, pruning principles, practices and mechanisation. The relationship between production aspects and the physiology of the vine including phenology and shoot development, effect of node position on fruitfulness, interaction with climate response to pruning, trellising and canopy management. Vineyard management practices including: pests and diseases of grapevines, their recognition and control; propagation; soil management comprising weed control by chemical and non-chemical methods; the response of grapevines to irrigation; principles of irrigation scheduling and strategic irrigation practices; harvesting and handling methods used for winegrapes; cultural practices employed to produce winegrapes of particular end-use specification.

VITICULT 3043WT

Industry Experience (Viticulture) A

- 3 units - semester 1, vacations from Yr. 3
- 10 weeks - students must return to campus for at least one week in February/March for compulsory tour for VITICULT 3020WT Table and Drying Grape Production
- Prerequisite: AGRONOMY 3015WT Viticultural Engineering and Operations
- Restriction: VITICULT 3019WT Industry Experience (Viticulture) B
- Assessment: practical report, employers report, assignments

Work experience in approved horticultural enterprises. Experience in a range of operations, for example, foliar spraying in spring, irrigation system management, yield estimation, disease and pest control, harvesting and preparation for marketing, the emphasis and expectation being on gaining hands on commercial experience of selected viticultural practices. A study of the resources of the business; assessment of the practices associated with the viticultural enterprises to evaluate the efficiency of the operations.

VITICULT 3044WT

Viticultural Methods and Procedures

- 3 units - semester 1
- Lecture, tutorial, 6 hours practical work per week
- Eligibility: B.Sc(Viticulture) students only
- Assumed Knowledge: VITICULT 2002WT Viticultural Science
- Restriction: VITICULT 7038WT Viticultural Methods and Procedures, VITICULT 3004 Viticultural Production, VITICULT 3018 Viticultural Production B, AGRONOMY 3015/7017 Viticultural Engineering and Operations

The practices associated with the development and operation of a viticultural enterprise. This includes training in the monitoring of pests and diseases, soil and plant water and nutritional status; yield estimation; experimentation. Lecture topics include: biotechnology in viticulture, organic viticulture, advanced propagation techniques, use of growth regulators in viticulture, control of bird pests. Tutorial/practical sessions include: climatic assessment for vineyard site selection; principles and practices of vineyard operations including spray equipment calibration and spray application; pruning, training, trellis erection and repair, propagation, canopy management and other activities, vineyard monitoring – phonological stages, bud fruitfulness, physiological pruning, yield estimation, pests and diseases, soil and plant water status; computer-aided decision-making systems such as VineLogic and precision viticulture. This course includes visits to commercial vineyards and equipment suppliers.

Honours

VITICULT 4004WT

Honours Viticultural Science (B.Ag.Sc.)

- 12 units - full year
- 15 hours per week; at least 30 hours per week during February and other vacations
- Prerequisite: credit or higher in at least two level III courses approved by the Head of Discipline
- Assessment: coursework, essays or other assignments not part of research project 40%, research project - research proposal, seminar, thesis, vivo voce 60%

Substantial research project of the students choosing on a topic acceptable to the Discipline of Wine and Horticulture, as well as coursework, essays or other assignments deemed appropriate to each student's Honours program.

Intending candidates should consult the Head of Discipline, Honours Coordinator and potential supervisors as early as possible, but no later than December 1 immediately preceding the start of the Honours program. Research topics will be decided in December/ January and full-time work must begin no later than February 1.

VITICULT 4005WT

Honours Wine and Horticulture (B.Sc.)

- 24 units - full year
- Prerequisite: credit or higher in at least two Level III courses approved by the Head of Discipline
- Assessment: research thesis, & associated seminars 50% - remainder as deemed appropriate to each student's program

The course comprises a substantial research project of student's choice on a topic acceptable to the Discipline of Wine & Horticulture, plus coursework, essays or other assignments deemed appropriate to each student's program.

Intending candidates should consult the Head of Discipline and potential supervisors during the final year of the degree and be prepared to begin studies at the beginning of February, or other vacations.

Wine Marketing

Level I

WINEMKTG 1003EX

Legal Issues in Wine Marketing

- 3 units - semester 2
- External only
- Assessment: exam 50%, assignments 50%

This course provides a general introduction to the Australian legal system and institutions, and to Australian commercial law. Emphasis will be placed on those parts of the law that have particular relevance to marketing, such as contract, sale of goods, consumer protection, trace practices and intellectual property law. The legal principles discussed have general commercial applicability, but where possible will be illustrated by topical examples drawn from wine food marketing.

WINEMKTG 1008EX

Introduction to Managerial and Financial Accounting

- 3 units - semester 1 or 2
- External only
- Assessment: written exams (open book) 50%, assignments 50%

This course provides an introduction to the principles of accounting appropriate to the wine industry. The course deals with those accounting principles from the perspective of a winery business manager. The course does not seek to teach the detailed techniques of accounting, but rather to equip students with sufficient knowledge and skills of accounting to be better managers in the wine industry. The first half of the course deals with financial accounting matters, with a special emphasis on equipping students to be able to analyse financial statements, and to understand the techniques of managing cash flows in wine businesses . In the second half of the course, management accounting techniques such as product costing, budgeting, cost-volume-profit analysis and project evaluation are covered. At the end of the course, students will be able to deal with financial statements, management reports, and be able to make more effective decisions where financial implications are involved.

WINEMKTG 1013EX

WINEMKTG 1013WT

Wine and Food Marketing Principles

- 3 units - semester 1
- Internal (2 lectures, 1 tutorial per week) or External
- Assessment: to be advised

The aim of this course is to give wine marketing students an understanding of the role of the marketing manager through an

introduction to the basic concepts and practices in marketing with particular emphasis on wine and food products. The topics covered include the marketing environment and marketing strategy formulation. There will be particular examination of product, price, place and promotion strategies.

WINEMKTG 1015EX

Data Analysis for Wine and Food Business

- 3 units - semester 1
- External only
- Assessment: exams, assignments

This course introduces a body of principles and methods concerned with extracting useful information from data for business decision making in the face of uncertainty, with emphasis on applications in the wine and food business area. Topics covered include visual presentation of data; summarising data numerically by measures of central tendency and dispersion; reasoning with probabilities; representing uncertainty by random variables and probability distributions; drawing and using samples to make estimates; assessing connections between variables by correlation and simple regression; tracking economic changes with index numbers; forecasting with time series and trend analysis; and drawing conclusion for data with statistical hypothesis testing.

WINEMKTG 1026EX

Microeconomic Principles

- 3 units - semester 1
- External only
- Assessment: assignments, final exam

The course provides an introduction to the essential elements of microeconomics, with emphasis on demonstrating how the understanding of microeconomic principles can lead to better analysis of management and marketing of wine and food products, and government microeconomic policies. Broadly, the course covers how production and consumption decisions of individual economic units are made and coordinated. Specific topics include fundamentals of supply and demand analysis, production economics, analysis of short and long-run costs of production, market structure, pricing policies and methods, market failure, welfare and public policy issues and the markets for factors of production.

WINEMKTG 1063EX

Macroeconomic Essentials for Wine & Food Business

- 3 units - semester 2
- External only
- Assessment: assignments and final exam

This course develops understanding of the macroeconomic environment in which wine and food businesses operate; and the ability to analyse the implications of specific macroeconomic events (eg, change in the interest rate, tax cut, or increasing unemployment) to success and profitability, and marketing strategies of wine and food businesses. Emphasis is on applications and policies, not formal economic theory. Coverage include: measurements of national income, cost of living, and unemployment; productivity and economic growth; the monetary system; the causes and effects of inflation and unemployment; impacts of monetary and fiscal policies; factors influencing the international flows of goods and capital; and current debates over macroeconomic policies.

Level II

WINEMKTG 2002EX

WINEMKTG 2002WT

Wine and Society

- 4 units - semester 1
- Internal (2 lectures, 1 tutorial per week) or External
- Assumed Knowledge: WINEMKTG 1013WT/1013EX Wine and Food Marketing Principles
- Assessment: to be advised

The student will be exposed to studies that cover the history and future of the Australian wine industry, presented in the wider context of European and other New World wine industries. Topics covered include: the origins of grape and wine production, the religious and cultural symbolism of wine, the development of an international wine trade in the 20th century, the role of fashion in wine markets, and examination of wine and other forms of alcohol and health issues. Also covered are: alcohol and wine consumption habits and attitudes, education and awareness programs, communication of wine information, food and wine complementarity, labelling and product laws.

WINEMKTG 2003EX

WINEMKTG 2003WT

International Wine Law

- 3 units - semester 1
- Internal (2 lectures, 1 tutorial per week) or External
- Assumed Knowledge: WINEMKTG 1003EX Legal Issues in Wine Marketing or COMMLAW 1004 Commercial Law 1(S)
- Assessment: to be advised

The course will cover import and export licensing, labeling and standards requirements, appellation and place names requirements and restrictions, contracts for international sale and financing of sale and for transport, conflict of laws, the role of the OIV and other international agencies, treaties and trade agreements, and tax laws as related to the international wine trade.

WINEMKTG 2010EX

WINEMKTG 2010WT

Strategic Marketing Management

- 4 units - semester 2
- Internal (2 lectures, 1 tutorial per week) or External
- Prerequisite: WINEMKTG 1013WT/1013EX Wine and Food Marketing Principles
- Assessment: to be advised

The critical role of strategic marketing in meeting the challenges facing organisations in complex markets will be the primary focus of this course, and will seek to explore how formulating and implementing unique strategic marketing moves serve not only to ensure survival, but also to yield significant and sustainable competitive advantage.

Drawing on current and emerging perspectives on strategic marketing, the material covered will be structured in terms of a basic strategic marketing model, which deals with company, competition, customer, environment, strengths and weaknesses, objectives and goals, strategy formulations and implementation.

In order to contextualise this material students will be encouraged to develop an understanding of the practical necessity for interdependency and synergy between an organisation's corporate, business, and functional levels of strategy.

WINEMKTG 2011EX

WINEMKTG 2011WT

Applied Marketing Research

- 4 units - semester 2
- Internal (2 lectures, 1 tutorial per week) or External
- Assumed Knowledge: WINEMKTG 1013WT/1013EX Wine and Food Marketing Principles, and ECON 1008 Business Data Analysis or WINEMKTG 1015EX Data Analysis for Food and Wine Business
- Assessment: to be advised

The aim of this course is to study quantitative and qualitative marketing research for pro-active and reactive marketing intelligence systems as it applies to food and agricultural marketers. Topics included are problem analysis, types of data collection systems, steps in research projects, controls of a research project, questionnaire design, statistical methodology for data reduction, sampling theory and the industry and operative organizations. Dealing with a market research organization will be a significant aspect of the course which is not aimed at producing researchers but clients who understand the intricacies of the process - and the limitations. The focus will be the application of the theory for use in the new wine/food product evaluation, advertising measurement, corporate/product/range analysis, attitudinal research, as primary sources. Secondary sources such as trade, governmental or syndicated data will be explored and assessed.

WINEMKTG 2014EX

WINEMKTG 2014WT

International Marketing of Wine and Agricultural Products

- 4 units - semester 2
- Internal (2 lectures, 1 tutorial per week) or External
- Assumed Knowledge: WINEMKTG 1013WT/1013EX Wine and Food Marketing Principles,
- Assessment: to be advised

This course aims to provide a comprehensive review of the theory and practice of international marketing in relation to wine and agricultural products. Topics include: environmental factors affecting global wine marketing, especially the socio-cultural implications of international trade and wine export, strategic planning and organising for international marketing, market research for wine and agricultural products, decisions on segmentation, wine product policy, pricing, channels of distribution, international wine advertising, and coordinating and controlling global wine marketing operations.

WINEMKTG 2033EX

Consumer Behavioural Analysis

- 4 units - semester 1
- External only
- Prerequisite: WINEMKTG 1013WT/1013EX Wine and Food Marketing Principles
- Assessment: to be advised

The aim of this course is to alert students to the many variables that impact upon the purchase and consumption of goods and services, especially wine. Within this multi-disciplinary course are the studies of perception, attitudes, human motivation, consumer information processing and decision making, the sociology of people, cultural and sub-cultural variables, group influences and the segmentation of consumers into manageable communicable target groups for wine markets. Knowledge of consumer behaviour provides direction and the basis for wine marketing efforts such as advertising, promotion, public relations, wine packaging, pricing, distribution and the nature of the wine product.

WINEMKTG 2037WT

Applied Management Science

- 4 units - semester 1
- 2 lectures, 2 hour practical/tutorial per week
- Assumed Knowledge: WINEMKTG 1013WT/1013EX Wine and Food Marketing Principles, ECON 1008 Business Data Analysis or WINEMKTG 1015EX Data Analysis for Wine and Food Business
- Assessment: to be advised

The aim of this course is to introduce a collection of management science techniques that helps business managers make better decisions and to foster a logical, consistent and systematic approach to problem formulation, problem solving and decision making. Emphasis is placed on model formulation and interpretation rather than algorithms. Topics to be covered include mathematical programming, network modeling, Monte Carlo simulation, decision analysis under risk, and time series forecasting.

Level III

WINEMKTG 3006EX

WINEMKTG 3006WT

Global Market for Wine

- 4 units - semester 1
- Internal (2 lectures, 1 tutorial per week) or External
- Eligibility: B. Wine Marketing students only
- Prerequisite: WINEMKTG 1013WT/1013EX Wine and Food Marketing Principles
- Assessment: assignments, final written exam

This capstone course provides students with insights into the nature, structure, functional mechanisms, and the complexities of the world's wine market. A typology of open, government-regulated and emerging wine markets is used as a framework within which to present this. In the process, the focus is across-the-board on specific countries' wine markets: large, medium, and small including markets that are of strategic importance. In addition, it examines key drivers in the world wine market and their impact on wine export dynamics and characteristics. There is an emphasis throughout on wine consumer behavioural aspects and successful marketing strategies employed in the wine consuming markets. The key factor of wine industry competitiveness is examined throughout as it manifests itself through the export performance of specific wine-producing country.

WINEMKTG 3012WT

Issues in Wine Business

- 3 units- semester 1 or 2
- 3 hours seminars per week
- Prerequisite: approval of Wine Marketing program coordinator

This course will offer the opportunity to the students to cover a range of topics in Wine Business as it relates to the student's study program interests and the teaching and research interests of staff and visiting academics. A combination of industry, academic and student prepared seminars will be used.

WINEMKTG 3014EX

WINEMKTG 3014WT

Food Marketing

- 4 units - semester 1
- Internal (2 lectures, 1 tutorial per week) or External
- Prerequisite: WINEMKTG 1013WT/1013EX Wine and Food Marketing Principles
- Assessment: to be advised

This course examines key issues in the development and marketing of primary and processed food and beverages products. Emphasis is placed on such areas as supply chain management, managing product development, exporting Australian food and beverage products, market research, packaging and labeling, consumer food consumption trends, food marketing strategies, and value-adding in Australian food and beverage industries.

WINEMKTG 3028EX

WINEMKTG 3028WT

Winery Business Management

- 4 units - semester 2
- Internal (2 lectures, 1 tutorial per week) or External
- Eligibility: B.Wine Marketing students only
- Prerequisite: ACCTING 1002 Accounting for Decision Makers or WINEMKTG 1008EX Introduction to Managerial and Financial Accounting, and WINEMKTG 1013WT/1013EX Wine and Food Marketing Principles
- Assessment: assignments, winery business plan project

This capstone course integrates all of the interfacing elements between wine and business management as these relate to the 'real-world' side of the wine industry of today. In the process wine marketing (with a strong emphasis on brand building to differentiate the winery business), winery cost and management accounting and financial management, strategic winery business management, and organisation development are all examined as these relate to actual wineries. Key focus areas are winery brand building and management, understanding costs of production, and

financing growth strategies for a winery business. The key activity performed in this course is the analysis and application of decision-making to winery operations and their application to an actual (operating) winery. The primary course outcome is the development of a realistic and fully-integrated business plan for this operating winery.

WINEMKTG 3034EX

WINEMKTG 3034WT

Advertising and Promotion

- 4 units - semester 1
- Internal (2 lectures, 1 tutorial per week) or External
- Prerequisite: WINEMKTG 1013WT/1013EX Wine and Food Marketing Principles
- Assessment: to be advised

This course will provide the student with an overview of the Integrated Marketing Communications process. Students will learn to manage the formal communications process in the context of wine and agricultural businesses. Attention will be paid to developing communication plans and understanding strategic applications of advertising, sales promotion and public relations tools. Students should expect to gain knowledge of communications theory as well as practical application through study of texts and real world cases.

WINEMKTG 3040EX

WINEMKTG 3040WT

Wine Retail and Distribution Management

- 4 units - semester 2
- Internal (2 lectures, 1 tutorial per week) or External
- Prerequisite: WINEMKTG 1013WT/1013EX Wine and Food Marketing Principles
- Assessment: assignments, exam

This course focuses on the principles of establishing and managing a retail concern. It will expose the student to the theoretical and practical aspects of selling and retail practices. Some of the areas this course will cover include: distribution and information systems, selling and marketing technology and trends, retail and wholesale operations, negotiation skills. The course can involve some fieldwork, guest lectures and practical case studies.

WINEMKTG 3047EX

WINEMKTG 3047WT

Internet Marketing and E-Commerce

- 4 units - semester 1
- Internal (2 lectures, 2 hours practical/tutorials per week) or External
- Prerequisite: WINEMKTG 1013WT/1013EX Wine and Food Marketing Principles
- Assessment: to be advised

The course examines issues concerning the process, development and impact of e-commerce, and the use of Internet marketing in wine and food business from a managerial viewpoint, and within the context of creating consumer value. Topics include the underlying technology of e-commerce, conceptual foundations of marketing in an electronic environment; e-commerce business models; consumer attitudes and behaviour on the Internet; Internet marketing research; e-commerce and supply chain management, and advertising and promotional strategies in e-commerce. Coverage also includes issues associated with developing strategy, planning, designing, implementing, out-sourcing, securing and managing e-commerce systems and technologies. Emphasis will be on establishing a framework to keep abreast of the technology in a relatively new but fast moving field.

WINEMKTG 3049EX

Wine and Food Tourism and Festivals

- 4 units - semester 2
- External only
- Prerequisite: WINEMKTG 1013WT/1013EX Wine and Food Marketing Principles
- Assessment: to be advised

This course explores the basics of tourism and the structure of the tourism industry as it relates to both wine and food. It addresses the basics concepts of wine tourism and hospitality, wine and food festivals in the broad context of tourism and hospitality, and wine tourism as a vehicle to build a brand image for the wine(ry) business and/or wine region. Specific focus areas include wine tourism visitor (consumer) behaviour, the role of the winery cellar-door in wine marketing/distribution, the functions of wine routes/roads, wine region brand building, and wine and/or food festival event fundamentals and management.

WINEMKTG 3065EX

WINEMKTG 3065WT

Database Marketing for Food and Wine Business

- 3 units - semester 2
- 2 lectures, 2 hours tutorials/practical per week
- Prerequisite: WINEMKTG 7055WT/7055EX Principles of Wine and Wine Marketing
- Assessment: assignments, final exam

This course presents the evolving field of database marketing, broadly defined as the use of customer databases and information technology to promote one-to-one relationships with customers and to create precisely targeted marketing strategies; and its uses in food and wine businesses, especially for small to medium sized firms. Coverage includes the theories and practices of customer database design, implementation and maintenance; customer relationship management, and acquisition, retention and win-back strategies; applying customer lifetime value techniques; customer segmentation; and database marketing communication. More complex database marketing concepts including geodemographic applications, automatic cluster detection, and market basket analysis will be introduced.

Honours

WINEMKTG 4007WT

Honours Wine Marketing

- 24 units - full year
- Prerequisite: B. Wine Marketing or equiv, at least credit average in appropriate Level III courses offered by School of Agriculture and Wine or equivalents acceptable to program coordinator
- Assessment: research project/thesis

Candidates are expected to acquire a more detailed knowledge in a selected area of wine marketing or wine business than is required for the degree.

Candidates are required to carry out research in the field, to present seminar(s), and to present the results of the research in a written thesis. The student and the Honours Coordinator may decided to substitute some coursework for part of the research, however, a single mark based on 24 units will be assessed.

WINEMKTG 4008WT

Honours Wine Marketing (Part Time)

- 24 units - over 2 years
- Prerequisite: B.Wine Marketing or equiv, at least credit average in appropriate Level III courses offered by School of Agriculture and Wine or equivalents acceptable to program coordinator
- Assessment: research project/thesis

Candidates are expected to acquire a more detailed knowledge in a selected area of wine marketing or wine business than is required for the degree.

Candidates are required to carry out research in the field, present seminar/s, and present the results of the research in a written thesis. The student and the Honours Coordinator may decided to substitute some coursework for part of the research, however, a single mark based on 24 units will be assessed.

Index of Courses

course title	page
A	
A Kind of Blue I	567
A Kind of Blue II	574
A Kind of Blue III	583
Aboriginal Health Policy IIIHS	639
Aboriginal People and the Law	520
Accompanying II	582
Accompanying III	591
Accounting for Decision Makers I	325
Accounting Method I	326
Accounting Theory III	326
Acute and Chronic Care 1	558
Acute and Chronic Care 2	560
Adelaide Connection I	567
Adelaide Connection II	574
Adelaide Connection III	583
Adelaide Voices I	569
Adelaide Voices II	576
Adelaide Voices III	585
Administrative Laws	516
Advanced Advocacy	528
Advanced Agronomy	331
Advanced Automatic Control	442
Advanced Biometry	363
Advanced Chemical Engineering	414
Advanced Chinese A	372
Advanced Chinese B	372
Advanced Computer Aided Engineering	440
Advanced Contract Law	525
Advanced Dynamics and Relativity	620
Advanced Educational Studies A	407
Advanced Educational Studies B	407
Advanced Electromagnetics	432
Advanced Engineering Hydrology and Design	425
Advanced Environmental Design & Cleaner Production	417
Advanced Foundation Engineering and Design	426
Advanced Japanese A	509
Advanced Japanese B	509
Advanced Materials Engineering	415
Advanced Molecular Biology A	359
Advanced Molecular Biology B	360
Advanced Molecular Biology III	362
Advanced Music Seminar IIIA	589
Advanced Music Seminar IIIB	589
Advanced Plant and Animal Breeding	626
Advanced Programming Paradigms	381
Advanced Property Law	523
Advanced Public Law	528
Advanced Sensory Practice	602
Advanced Separation Techniques & Thermal Processes	414
Advanced Spatial Analysis	486
Advanced Studies in Architecture II	353
Advanced Studies in Landscape Architecture II	512
Advanced Systems Physiology	623
Advanced Telecommunications	432
Advanced Topics in Fluid Mechanics	443
Advanced Vibrations	443
Advanced Water Distribution Systems and Design	425
Advanced Water Resources Management and Design	425
Advanced Water Resources Planning and Design	425
Advances in Oenology	603
Advertising and Promotion	660
Aerodynamics	549
Aeronautical Engineering I	438
Aerospace Design Project Level IV	446
Aerospace Honours Project (Level 4)	444
Aerospace Materials and Structures	439
Aerospace Navigation and Guidance	444
Aerospace Propulsion I	444
Aerospace Propulsion II	445
Afterlife and Underworld in Antiquity	374-375
Agricultural Experience I Part 1	330
Agricultural Experience I Part 2	330
Agricultural Experience II	330
Agricultural Experimentation	363
Agroforestry	330
Airconditioning	442
AI Applications in Engineering Design	414
Algebra II	543

course title	page
Alternative Dispute Resolution	527
America, Asia and the Cold War 1945-1990	497, 500
Ancient Greek IIIS Part 2	338
An Introduction to Contemporary Arab Culture & Architecture	391
Analog Microelectronics	433
Analysis and Design of Structures (International)	423
Analytical Chemistry II	367
Anarchism and Libertarianism	628, 631
Ancient Greek I	336
Ancient Greek II Part 1	337
Ancient Greek II Part 2	337
Ancient Greek IIS	337
Ancient Greek III Part 1	338
Ancient Greek III Part 2	338
Ancient Greek IIIS Part 1	338
Animal Breeding and Genetics	341
Animal Food Processing	472
Animal Health and Welfare	340
Animal Nutrition and Metabolism	340
Anthropology of Conflict and Crisis	345, 348
Anthropology of Health and Medicine	343, 346
Anthropology of Ritual, Performance and Art	343, 346
Applications of Quantitative Methods in Finance I	539
Applied Econometrics III	403
Applied Management Science	659
Applied Marketing Research	658
Applied Probability III	543
Applied Quantum Mechanics III	621
Approaches to Music I	572
Approaches to Music IIA	581
Approaches to Music IIB	581
Approaches to Music III	589
Architecture Practice II	354
Architecture Project II	354
Architecture Studio IA	352
Architecture Studio IB	353
Architecture Studio IC	352
Architecture Studio ID	352
Architecture Studio II	354
Architecture/Landscape Architecture Practice II	354
Architecture/Landscape Architecture Studio IE	353
Architecture/Landscape Architecture Studio IIE	512
Architecture/Landscape Architecture Studio IF	353
Architecture/Landscape Architecture Studio IIF	355
Argument and Critical Thinking	609
Art History and Theories IA	391
Art History and Theories IB	392
Art History and Theories IIA	395
Art History and Theories IIB	395
Artificial Intelligence	380
Asia and the World	355
Asian Studies (Core Topic)	356
Assignment Writing and Research Skills	593
Astronomy I	614
Auditing III	327
Aural Development (C3)	595
Aural Development (Dip)	595
Aural Development (New) I	323
Aural Development (New) II	324
Aural Development (VET)	594
Australia & the Global Economy I	399
Australia and the Asia Pacific	356, 357
Australia and the World in the Twentieth Century	496, 498
Australian Architecture and Landscapes I	390
Australian Biota: Past, Present and Future	460
Australian Colonial Visions	453, 455
Australian Constitutional Law	517
Australian Cultural Geographies	483, 485
Australian Economic History II	402
Australian Indigenous Languages	534, 535
Australian Legal History	517
Automotive Combustion Technology	441
Automotive Design and Communications	441
Automotive Design Project Level IV	446
Automotive Honours Project Level IV	446
Automotive Materials & Structures	440
Automotive Power Train & Vehicle Dynamics	441

course title | page

B

Beauty: Pleasures and Principles 611, 614
Bella Voce I 569
Bella Voce II 576
Bella Voce III 585
Big Band One I 567
Big Band One II 574
Big Band One III 583
Big Band Two I 568
Big Band Two II 575
Big Band Two III 583
Big Band Three I 568
Big Band Three II 575
Big Band Three III 583
Biochemical Engineering 414
Biochemistry II (Agriculture) A 360
Biochemistry II (Biotechnology) A 359
Biochemistry II (Biotechnology) B 361
Biochemistry II (Molecular Biology) A 359
Biochemistry II (Molecular Biology) B 360
Biochemistry IIA 359
Biochemistry IIB 360
Biogeography and Biodiversity Conservation 482, 484
Bioinformatics III 653
Biological Anthropology 335
Biology and Diversity of Insects 462
Biology I: Human Perspectives 363
Biology I: Molecules, Genes and Cells A . . . 362
Biology I: Molecules, Genes and Cells B . . . 363
Biology I: Organisms 363
Biology of Disease II 606
Biology of Plants and Animals 349
Biomedical Engineering 414
Biostatistics III 652
Biotechnology in the Animal Industries . . . 341
Biotechnology in the Food and Wine Industries 625
Biotechnology Practice III 364
Blues All Around My Head I 570
Botany II 460
Building Design Studio III 397
Built Environments I 390
Business Finance II 383
Business Management for Agricultural Science 328

course title | page

C

Capital Gains Tax and the Taxation of Entities 529
Career Management 593
Cell and Developmental Biology III 361
Cell Biology and Genetics 349
Cellar and Winery Waste Management . . . 602
Cells and Tissues II 334
Cells, Tissues & Development II 334
Chamber Music IA 569
Chamber Music IB 570
Chamber Music IIA 576
Chamber Music IIB 577
Chamber Music IIIA 585
Chamber Music IIIB 585
Chamber Orchestra I 569
Chamber Orchestra II 576
Chamber Orchestra III 584
Chemical Engineering Projects III 411
Chemical Engineering Projects IV 416
Chemical Engineering Research Elective . . 415
Chemical Engineering Research Elective II . 413
Chemical Engineering Research Project (H) 416
Chemical Engineering Research Project (N) 416
Chemical Engineering Thermodynamics . . 410
Chemical Process Principles II 410
Chemical Synthesis IIIA 367
Chemical Synthesis IIIB 368
Chemistry and Introductory Biochemistry A 625
Chemistry IA 364
Chemistry IB 365
Chemistry IIA 365
Chemistry IIB 366
Chemistry IIA (Mol.Biol.) 366
Chemistry IIB (Mol.Biol.) 366
Chemistry IIA (Molecular & Drug Design) . . 366
Chemistry IIB (Molecular and Drug Design) 367
Chemistry IIAE 366
Chemistry IIBE 366
Chemistry of Materials IIIA 368
Chemistry of Materials IIIB 368
Chinese for Chinese Speakers IIA 370
Chinese for Chinese Speakers IIB 370
Chinese for Chinese Speakers IIIA 372
Chinese for Chinese Speakers IIIB 372
Chinese IA 369

course title	page
Chinese IB	369
Chinese ISA	369
Chinese ISB	370
Chinese IIA	370
Chinese IIB	370
Chinese IISA	371
Chinese IISB	371
Chinese IIIA	371
Chinese IIIB	371
Chinese Studies In-Country	371, 372
Choral Masterworks I	571
Choral Masterworks II	578
Choral Masterworks III	586
Choral Repertoire I	571
Choral Repertoire II	578
Choral Repertoire III	586
Cities and Globalisation	482, 484
Citizenship in an International Context	629, 632
Civil and Criminal Procedure	526
Civil and Environmental Engineering I	418
Civil Engineering Management IV N	424
Civil Engineering Research Project N	423
Classical Fields and Mathematical Methods II	617
Classical Mechanics II	616
Classical Performance I	573
Classical Performance II	582
Classics: From Ancient Greece to Rome	373
Classics: From Egypt to Ancient Greece	372
Clinical Elective and Specials Week VI	561
Clinical Legal Education	532
Clinical Practice IOH	604
Clinical Practice IIOH	605
Clinical Practice IIIOH	605
Clinical Skills I	555
Clinical Skills II	556
Clinical Skills III	556
Coastal Engineering and Design	426
Coding and Cryptology III	547
Coding and Cryptology III (Extended)	548
Colonial and Contemporary Issues in South Asian Architecture II	394
Colonial and Contemporary Issues in South Asian Architecture III	397
Colonial Identity and the Legacies of Empire	498, 500
Combined Honours Public Health & Philosophy	642
Combustion Processes	415
Combustion Technology and Emissions Control	441
Commercial Equity	524
Commercial Law and the Market	519
Commercial Law I(S)	376
Commercial Law II	377
Common Program	559, 560
Communication in the Agri-Food Industry	350
Communication Network Design	549
Communication Skills III	547
Communications IV	433
Communications, Signals & Systems	430
Companion Animal & Equine Studies	340
Comparative Anatomy of Body Systems II	334
Comparative Animal Physiology	340
Comparative Constitutional Law	527
Comparative Corporate Law and Theory	531
Comparative Corporate Rescue Law	531
Comparative Law	529
Comparative Native Title: Australia & Canada	529
Comparative Politics	628, 631
Comparative Reproductive Biology of Mammals	335
Compiler Construction and Project	381
Complex Analysis II	542
Composing Architecture and Landscape I	391
Composition Class	598
Computation Technique for Engineering Applications	446
Computational Fluid Dynamics (Engineering)	549
Computational Mathematics III	543
Computational Physics III	618
Computer Architecture	380
Computer Graphics	382
Computer Methods of Structural Analysis and Design	424
Computer Networks and Applications	379
Computer Science Concepts	377
Computer Science IA	377
Computer Science IB	377
Computer Systems	378
Computer-Aided Design I	392
Computer-Aided Design IIA	395
Computer-Aided Design IIB	393
Computer-Aided Design IIIA	396

course title	page
Computer-Aided Design IIIB	397
Concepts in Pharmacology A III	607
Concepts in Pharmacology B III	608
Concepts of Composition I	572
Conducting IIA	578
Conducting IIB	578
Conducting IIIA	586
Conducting IIIB	587
Conservation Biology	463
Conservation in the Built Environment II	394
Conservation in the Built Environment III	396
Conservation Law	532
Construction and Surveying	419
Construction I	391
Consumer Behaviour II	537
Consumer Behavioural Analysis	658
Consumer Protection & Unfair Trading	520
Consumers, Firms & Markets II	402
Contemporary Australian Film	453, 456
Contemporary China: Politics and Society	356, 357
Contemporary Japan: Culture and Identity	356, 358
Contemporary Medievalism	455, 458
Control III	430
Copyright Law	593
Corporate Accounting III	326
Corporate Finance	530
Corporate Finance Theory III	383
Corporate Governance	532
Corporate Insolvency Law	533
Corporate Investment and Strategy III	384
Corporate Law	517
Criminology	525
Crop and Pasture Ecology	332
Culture and Society: Contemporary Debates	344, 347
Curriculum and Methodology A	407
Curriculum and Methodology B	407
Curriculum Issues in Australian Schools A	407
Curriculum Issues in Australian Schools B	407

D

course title	page
Data Analysis for Wine and Food Business	657
Data Management and Interpretation	649
Data Structures and Algorithms	378
Database and Information Systems	378
Database Marketing for Food and Wine Business	661
Decision Making Under Uncertainty	451
Dental & Health Science IIOH	604
Dental & Health Science IIIOH	605
Dental and Health Science I	384
Dental and Health Science II	385
Dental and Health Science III	386
Dental and Health Science IOH	603
Dental and Health Science IV	387
Dental and Health Science V	389
Dental Clinical Practice	384
Dental Clinical Practical II	386
Dental Clinical Practice III	387
Dental Clinical Practice IV	388
Dental Clinical Practice V	389
Dental Selectives IV	388
Dental Selectives V	390
Design and Communication	439
Design and Environments II	395
Design Graphics	436
Design of Composite Structures	424
Design of Concrete Structures N	424
Design Practice	437
Design Project	433
Development Economics III	403
Developmental and Medical Genetics (Biomed.)	481
Developmental Psychology III	636
Differential Equations and Fourier Series	540
Differential Equations and Statistical Methods (Civil)	542
Differential Equations III	546
Digital audio studies (C4)	599
Digital Electronics	431
Digital Microelectronics	433
Discrete Mathematics II	542
Diseases and Disorders of the Body IIID	387
Dissertation Honours Law	533
Distillation, Fortified and Sparkling Winemaking	602
Distributed Systems	382
Domestic Scale Construction II	396
Drawing Architecture and Landscape I	392
Drilling Engineering and Well Completion	449
Dynamics	436
Dynamics and Control I	437
Dynamics and Control II	439

course title	page
E	
Early English Language and Literature	453, 456
Early Mediaeval Europe: A.D. 200-800	373, 374
Earth's Environment I	486
Earth's Interior I	486
Earthquake Engineering and Design	425
Eastern Mediterranean Archaeological Field School	374, 375
Ecological Management and Restoration III	462
Ecology & Management of Freshwater Systems III	463
Ecology and Management of Rangelands	332
Ecology and Management of Vertebrate Pests	341
Ecology EB II	459
ECON 1008 Business Data Analysis I	400
Econometrics III	404
Economic and Financial Data Analysis II	401
Economic Evaluation	448
Economic Theory III	405
Economics of Resource Management III	328
Ecophysiology of Animals III	461
Ecophysiology of Plants III	462
Ecosystem Modelling for Environmental Management III	463
Ecosystems and Community Ecology	644
Education in Physics with Industrial Cooperation	620
Egypt, Greece and the Aegean: Archaeology	373, 374
Elder Con Chorale III	585
Elder Conservatorium Chorale I	569
Elder Conservatorium Chorale II	576
Elder Conservatorium Symphony Orchestra I	568
Elder Conservatorium Symphony Orchestra II	575
Elder Conservatorium Symphony Orchestra III	584
Elder Conservatorium Wind Ensemble I	568
Elder Conservatorium Wind Ensemble II	575
Elder Conservatorium Wind Ensemble III	584
Electric Energy Systems	431
Electric Energy Systems M	432
Electrical Engineering I	428
Electrical Engineering IM	429
Electrical Engineering Research	432
Electromagnetism and Optics III	619
Electronic Commerce III	505
Electronics II	429
Electronics IIM	437
Elements of Environmental Law	329
Embedded Computer Systems	431
Emergency Medicine Internship VI	561
Emotion Culture & Medicine IIA	634
Employment Relations II	401
Engineering Acoustics	442
Engineering and the Environment	438
Engineering Communication and Language (ECL)	423
Engineering Communication ESL (C)	420
Engineering Communication ESL (E)	430
Engineering Communication ESL (H)	411
Engineering Communication ESL (M)	438
Engineering Communication ESL (P)	449
Engineering Computing I	409
Engineering Electromagnetics	429
Engineering Management and Planning	422
Engineering Management and Professional Practice	445
Engineering Mathematics III	545
Engineering Modelling and Analysis I	418
Engineering Modelling and Analysis II	419
Engineering Modelling and Analysis III	422
Engineering Planning and Design	418
Engineering Planning, Design and Communication	429
Engineering Planning Design and Communication M	436
Engineering Principles	330
English for Professional Purposes	453, 456
Enhanced Oil Recovery	450
Ensemble (C3)	595
Ensemble (C4)	594
Environmental and Architectural Acoustics	443
Environmental and Occupational Health IIIHS	640
Environmental and Regional Planning	482, 484
Environmental Auditing and Design	427
Environmental Biology I	458
Environmental Change	483, 485
Environmental Chemistry II	365
Environmental Dispute Resolution	528
Environmental Economics E III	403
Environmental Economics ES III	404

course title	page
Environmental Engineering	416
Environmental Engineering II	419
Environmental Engineering III	421
Environmental Engineering and Design III	422
Environmental Law	522
Environmental Physics II	617
Environmental Policy in Australia	465, 466
Environmental Processes, Modelling and Design	427
Environmental Protection Law	531
Environmental Research Project N	423
Environmental Science and Policy	423
Environmental Statistics III	651
Environmental Studies Internship	467
Environmental Toxicology and Remediation 645	
Environmentalism: Principles and Practice	465, 466
Epidemiology of Infectious Diseases IIIHS	639
Equality and Anti-Discrimination Law	528
Equity	517
Essay and Seminar (Environmental)	410
Essay and Seminar (Food, Wine & Biotechnology)	410
Essay and Seminar	411
Ethics, Science and Society II	334
Ethics, Science and Society III	336
Europe, Empire and the World 1492-1914	496
European Philosophy: The Death of God	468, 469
Event-Driven Computing	382
Everyday Life in Australia	453, 455
Evolutionary Biology EB II	459
Experimental Design III	653
Experimental Physics III	619
Expert Evidence	526
External Elective	560

F

course title	page
Family Law	518
Fascism and National Socialism	496, 499
Fauna Management	339
Fauna Survey and Management	339
Feminist Legal Theory	521
Fermentation Technology	603
Field Geoscience Program III	490
Field Studies IA	348
Field Studies IIA	349
Field Studies IIB	349
Fields and Geometry III	548
Fifth Annual (Final) B.D.S. Examination	389
Fifth Year MBBS Examination	559
Final (Sixth Year) MBBS Assessment	561
Finance for Engineers	445
Financial Accounting II	326
Financial Computing II	541
Financial Economics II	402
Financial Management for Engineers	433
Financial Modelling III	545
Financial Modelling Techniques III	545
Financial Transactions	520
Fire Engineering	445
First Annual B.D.S. Examination	384
First Annual Oral Health Examination	603
First year MBBS Examination	555
Fluid and Particle Mechanics	413
Fluid Mechanics III	544
Food Chemistry	471
Food Engineering Principles	470
Food Marketing	659
Food Microbiology II	471
Food Preservation and Packaging	471
Food Product Development	471
Food Quality and Regulation	471
Footing Design and Soil Variability	426
Formation Evaluation, Petrophysics and Rock Properties	448
Fortified Wines, Spirits and Non-Grape Beverages	600
Foundation for Honours III: Music Studies	590
Foundation of Linguistics	534
Foundations of Chemistry IA	364
Foundations of Chemistry IB	365
Foundations of Modern Philosophy	610, 612
Foundations of Wine Science	600
Fourth Annual B.D.S. Examination	387
Fourth Year MBBS Exam	557
Fractal Geometry III	547
Fracture Mechanics	442
French I: Language and Culture Part 1	473
French I: Language and Culture Part 2	473
French IA: Beginners' French Part 1	472
French IA: Beginners' French Part 2	472
French II: Language and Culture Part 1	474
French II: Language and Culture Part 2	474

course title	page
French IIA: Language and Culture Part 1	473
French IIA: Language and Culture Part 2	473
French III: Language and Culture Part 1	475
French III: Language and Culture Part 2	475
French IIIA: Language and Culture Part 1	474
French IIIA: Language and Culture Part 2	474
French in France II	474
French in France III	475
French Studies II	473
French Studies III	475
Freshwater Ecology III	461
Functional Human Anatomy II	334
Fundamental Steel Design	428
Fundamentals of Drug Development III	608
Fundamentals of Drug Discovery III	607
Fundamentals of Numerical Reservoir Simulation	448
Fundamentals of Reservoir Engineering	448
Fungal Biology	351

G

Game Theory	550
Gender, Work and Society	476
General Microbiology	625
General Pathology IIIHS	606
General Studies (New) I	322
General Studies (New) II	325
General Studies ID	385
General Studies IID	386
General Studies IOH	604
General Studies IIOH	605
Genes and Inheritance	339
Genes and Proteins III (Molecular Biology)	362
Genetics IIA (Biomedical Science)	479
Genetics IIA (Molecular Biology)	479
Genetics IIA: Foundation of Genetics	479
Genetics IIB (Biomedical Science)	480
Genetics IIB (Molecular Biology)	480
Genetics IIB: Function and Diversity of Genomes	479
Geology for Engineers	487
Geotechnical Engineering Design III	422
Geotechnical Engineering II	418
Geotechnical Modelling and Design	426
German IA: Beginners' German Part 1	492
German IA: Beginners' German Part 2	492
German in Germany	493, 494
German Special Topic II	493
German Special Topic III	495
German Studies I Part 1	492
German Studies I Part 2	492
German Studies II: Language and Culture Part 1	493
German Studies II: Language and Culture Part 2	494
German Studies IIA: Language and Culture Part 1	493
German Studies IIA: Language and Culture Part 2	493
German Studies III: Language and Culture Part 1	495
German Studies III: Language and Culture Part 2	495
German Studies IIIA: Language and Culture Part 1	494
German Studies IIIA: Language and Culture Part 2	494
GIS for Agricultural Sciences	646
GIS for Environmental Management	645
Global Market for Wine	659
Grape and Wine Business Management	329
Grape Industry Practice, Policy and Communication	654
Great Ideas of Western Civilisation	468, 469
Groundwater Resources, Contamination and Design	427
Groups and Rings III	548

H

Health Promotion IIIHS	640
Heat Transfer	438
History & Literature	594
History of 20th century music	594
History of Commercial Music	594
History of Indigenous Peoples of Australia A	497, 499
Hollywood or Bust!	454, 457
Honours Agronomy & Farming Systems (B.Ag.)	332
Honours Agronomy & Farming Systems (B.Ag.Sc.)	333
Honours Agronomy & Farming Systems (BNRMgt)	333
Honours Anaesthesia and Intensive Care	561
Honours Anatomical Sciences	336
Honours Ancient Greek	339
Honours Animal Science (B.Ag.)	342

course title	page
Honours Animal Science (B.Ag.Sc.)	342
Honours Animal Science (B.Sc.)	342
Honours Animal Science (BAg)	341
Honours Animal Science (BNRMgt)	342
Honours Anthropology	348
Honours Applied Mathematics & Computer Science	550
Honours Applied Mathematics & Environmental Biology	551
Honours Applied Mathematics & Genetics	550
Honours Applied Mathematics & Statistics	551
Honours Applied Mathematics (B.A. or B.Sc.)	550
Honours Asian Studies	358
Honours B.Environmental Science (Geology)	491
Honours Bachelor of Environmental Science (Chemistry)	369
Honours Bachelor of Environmental Science (Environmental Biology)	464
Honours Biochemistry	362
Honours Botany and Geology	464
Honours Chemistry	369
Honours Classical Studies	376
Honours Commerce	376
Honours Composition	592
Honours Computer Science	382
Honours Computer Science and Pure Mathematics	551
Honours Creative Writing	458
Honours Dentistry	388
Honours Design Studies	399
Honours Economics	405
Honours English 458	
Honours Environmental Biology	463
Honours Environmental Biology (B.Nat Res Mgt)	464
Honours Environmental Science (Soil & Land Systems)	647
Honours Environmental Studies	467
Honours Ethnomusicology (B.Mus.)	591
Honours European Studies	470
Honours Finance	406
Honours French Studies	476
Honours Gender Studies	478
Honours General Practice	479
Honours Genetics	481
Honours Geography	486
Honours Geology	490
Honours Geology and Botany	491
Honours Geophysics	490, 491
Honours German Studies	495
Honours History	500
Honours Horticultural Science (B.Ag.Sc.)	502
Honours International Studies	506
Honours Japanese Studies	509
Honours Labour Studies	510
Honours Latin	514
Honours Linguistics	535
Honours Math Physics & Pure Maths	551
Honours Mathematical Physics	622
Honours Mathematical Sciences	551
Honours Media	554
Honours Medicine	561
Honours Microbiology and Immunology	565
Honours Music Education	592
Honours Music Pedagogy	593
Honours Music Technology	592
Honours Musicology (B.Mus.)	592
Honours Obstetrics and Gynaecology	599
Honours Oenology (B.Ag.Sc.)	603
Honours Orthopaedics and Trauma	561
Honours Paediatrics	561
Honours Pathology	606
Honours Performance	592
Honours Petroleum Geology and Geophysics	491
Honours Pharmacology	609
Honours Philosophy	614
Honours Philosophy and Pure Mathematics	552
Honours Physics	621
Honours Physiology	624
Honours Plant & Pest Science (B.Ag.Sc.)	627
Honours Plant and Pest Science (B.Ag.)	627
Honours Plant and Pest Science (B.Ag.Sc.)	351
Honours Plant and Pest Science (B.Sc.)	627
Honours Plant and Pest Science (B.N.R.Mgt.)	351
Honours Politics	634
Honours Project	434
Honours Psychiatry	634
Honours Psychology	638
Honours Public Health	641
Honours Pure and Applied Maths (B.A. Or B.Sc.)	551
Honours Pure Mathematics & Statistics	551

course title	page
Honours Pure Mathematics (B.A. Or B.Sc.)	552
Honours Rangeland Science and Management S	464
Honours Research and Writing	533
Honours Soil & Land Systems (B.Ag.)	647
Honours Soil & Land Systems (B.Ag.Sc.)	647
Honours Soil & Land Systems (B.NR.Mgt.)	647
Honours Soil & Land Systems (B.Sc.)	647
Honours Statistics (B.A. Or B.Sc.)	653
Honours Viticultural Science (B.Ag.Sc.)	656
Honours Wine and Horticulture (B.Ag)	502
Honours Wine and Horticulture (B.Ag.Sc.)	502
Honours Wine and Horticulture (B.Sc.)	502, 656
Honours Wine Marketing (Part Time)	661
Honours Wine Marketing	661
Honours.Statistics and Computer Science	654
Hons IPM (B.Ag.Sc.)	351
Horticulture Systems	501
Housing Law	525
How Should I Live: Contemporary Ethical Theories	611, 613
Human Biology IA	333
Human Biology IB	333
Human Biology ID	385
Human Biology IOH	604
Human Biology IIOH	605
Human Physiology IIA (Biomedical Science)	623
Human Physiology IIA: Heart, Lungs and Circulation	622
Human Physiology IIB (Biomedical Science)	623
Human Physiology IIB: Homeostasis and Nervous System	622
Human Physiology IIIA (Biomedical Science)	624
Human Physiology IIIB (Biomedical Science)	624
Human Relations III	637
Human Reproductive Health	560
Human Reproductive Health IIIHS	599
Human Resource Management (REM)	329
Human Resource Management III	537
Human Rights Internship Programme	519
Human Rights: International & National Perspectives	523
Human, Developmental and Evolutionary Genetics	481
Hydrocarbon Reservoirs	415
Hypersonic Flow	445

I

Igneous & Metamorphic Geology III	489
Igneous and Metamorphic Geology II	487
Image, Text and Representation	642
Image/Text/Architecture I	392
Immigration and Refugee Law	530
Immunology and Virology II (Biomedical Sc)	563
Immunology and Virology II (Biotechnology)	563
Immunology and Virology II	562
Improvisation 1	596
Improvisation I	571
Income Tax Law III	377
Indigenous Australians & Environmental Management	332
Indigenous Health II	478
Indigenous Health IIHS	478
Individual Differences III	637
Individual Studies (Ag)	331
Individual Studies A	350
Individual Studies B	349
Individual Studies Rural Enterprise Management	329
Individual Tuition (C3)	595
Individual Tuition (C4)	595
Individual Tuition (Dip)	597
Indonesian Advanced Part 1	504
Indonesian Advanced Part 2	504
Indonesian Advanced A Part 1	504
Indonesian Advanced A Part 2	504
Indonesian Intermediate A Part 1	504
Indonesian Intermediate A Part 2	504
Indonesian Intermediate Part 1	503
Indonesian Intermediate Part 2	503
Indonesian Introductory A Part 1	503
Indonesian Introductory A Part 2	503
Indonesian Introductory Part 1	503
Indonesian Introductory Part 2	503
Industrial Economics and Management	415
Industrial Mathematics III	544
Industrial Rheology	416
Industrial Statistics III	651
Industry Experience (Oenology) A	602

course title	page
Industry Experience (Viticulture) A	655
Industry Experience (Viticulture) B	654
Industry Practicum (Maths. & Comp. Sc.)	550
Infection and Immunity A	564
Infection & Immunity A (Biomedical Science)	565
Infection and Immunity B	564
Infection and Immunity B (Biomedical Science)	565
Information Systems I	505
Information Systems II	505
Insect Ecology	351
Inside Out: An Anthropology of University Life	342
Instrumental Music Pedagogy II	577
Instrumental Music Pedagogy III	585
Integrated Catchment Management III	463
Integrated Field Development Planning and Economics Project	451
Integrated Pest Management A	350
Integrated Reservoir Management	450
Integrated Weed Management	351
Integration and Analysis III	548
Integrative and Comparative Neuroanatomy	335
Intellectual Property Law	521
International Agri-Business Environment	328
International Agri-business Environment III	328
International Economic History III	404
International Environmental Law	528
International Finance III	405
International Financial Institutions and Markets I	400
International Justice and Society	629, 631
International Justice and the Rule of Law	533
International Management III	536
International Marketing III	537
International Marketing of Wine and Agricultural Products	658
International Studies (core topic)	505
International Trade and Investment Policy II	400
International Trade III	404
International Wine Law	657
Internet Commerce II	505
Internet Computing	377
Internet Marketing and E-Commerce	660
Introducing Social Anthropology	343
Introduction to Advocacy	527
Introduction to Australian Law	515
Introduction to Australian Politics	627
Introduction to Bio-Processing	409
Introduction to Biochemical Engineering	412
Introduction to Biomechanics	446
Introduction to Biotechnology	364
Introduction to Business Management	327
Introduction to Chinese Society and Culture	355
Introduction to Comparative Politics	628
Introduction to Engineering in Agriculture	645
Introduction to English: Gothic	452
Introduction to English: Ideas of the Real	452
Introduction to Environmental Impact Assessment	465, 466
Introduction to Environmental Law N	424
Introduction to Epidemiology & Biostatistics IIIHS	640
Introduction to Financial Mathematics I	538
Introduction to Food Technology	470
Introduction to Gender Studies	476
Introduction to International Politics	627
Introduction to Japanese Society and Culture	355
Introduction to Latin and Ancient Greek I	337
Introduction to Latin and Ancient Greek IIS	337
Introduction to Managerial and Financial Accounting	656
Introduction to Mathematical Statistics II	650
Introduction to Petroleum Geosciences	447
Introduction to Physics Research III	620
Introduction to Process Engineering	409
Introduction to Public International Law	516
Introduction to Rock and Fluid Properties	447
Introduction to Software Engineering	379
Introduction to the Petroleum Industry	447
Introductory Grape and Wine Knowledge	600
Introductory Plant and Animal Breeding	626
Introductory Process Fluid Mechanics	410
Introductory Quantum Mechanics and Applications II	617
Introductory Spatial Information Systems	483, 485
Introductory Winemaking	601
Investment Analysis and Valuation II	383
IPM Internship	349
Irrigation Science	331
Islamic Architecture and Gardens II	393
Islamic Architecture and Gardens III	398

course title	page
Issues in Australian Agribusiness	327
Issues in Australian Agribusiness II	327
Issues in Australian Politics	630, 632
Issues in Contemporary Education	406
Issues in the Philosophy of Language	610, 613
Issues in Urban and Landscape Sustainability III	397
Issues in Wine Business	659
Italian I Part 1	506
Italian I Part 2	506
Italian II Part 1	506
Italian II Part 2	507
Italian III Part 1	507
Italian III Part 2	507

J

Japanese IA	507
Japanese IB	507
Japanese ISA	508
Japanese ISB	508
Japanese IIA	508
Japanese IIB	508
Japanese IISA	508
Japanese IISB	508
Japanese IIIA	508
Japanese IIIB	509
Jazz Accompaniment	597
Jazz Arranging Class II	579
Jazz Diploma Forum	597
Jazz Diploma Workshop	597
Jazz Forum	596
Jazz Guitar Band One I	568
Jazz Guitar Band One II	575
Jazz Guitar Band One III	584
Jazz Guitar Band Two I	568
Jazz Guitar Band Two II	575
Jazz Guitar Band Two III	584
Jazz Improvisation II	579
Jazz Improvisation III	587
Jazz Masterclass	596
Jazz Performance I	571, 596
Jazz Performance II	578
Jazz Performance III	587
Jazz Piano Class 1	596
Jazz Styles 1	595
Jazz Theory 1	596
Jessup Moot	523
Jurisprudence	522
Justice & Power: Contemporary Political Philosophy	611, 613
Justice, Virtue and the Good	629, 632

K

Keyboard Laboratory I	570
Keyboard Musicianship (Majors)	598
Keyboard Musicianship (Minors)	598
Keyboard Musicianship I	573
Kinetics and Reactor Design	413
Knowledge Representation	379

L

Labour and Industrial Relations Law	530
Labour Economics III	403
Land and Water Resources Law	531
Land Management Systems for the Future	331
Land Transactions	521
Landmarks in English Literature: Chaucer to Austen	452
Landscape Architecture Practice II	511
Landscape Architecture Project II	512
Landscape Architecture Seminar II	511
Landscape Architecture Studio IA	510
Landscape Architecture Studio IB	511
Landscape Architecture Studio IC	511
Landscape Architecture Studio ID	510
Landscape Architecture Studio II	512
Landscape Design Studio III	398
Language and Communication Planning	534, 535
Language and Ethnography of Communication	534
Language and Meaning	534, 535
Language Processes III	638
Language, Communication and Technology	534, 535
Laplace Transforms & Probability & Statistical Methods	650
Latin I	513
Latin II Part 1	513
Latin II Part 2	513
Latin IIS	513
Latin III Part 1	514
Latin III Part 2	514
Latin IIIS Part 1	514
Latin IIIS Part 2	514

course title	page
Law of Contract	515
Law of Crime	515
Law of Evidence	526
Law of the Person	524
Law of Torts	515
Leadership in Agri Industries	329
Learning and Behaviour III	637
Legal Ethics	527
Legal Issues in Wine Marketing	656
Legal Research and Writing	516
Level IV Geological Study Tour	491
Life Contingencies III	544
Life Stories: Australia 1850-1980	476, 477
Lifestyle Horticulture	502
Limb Dissection	336
Litigation Practice	526
Livestock Production Science	339
Logic I: Beginning Logic	610
Logic II: Intermediate Logic	612
Logic III	548

M

Macroeconomic Essentials for Wine & Food Business	657
Macroeconomic Theory & Policy II	402
Management Accounting II	326
Management and Professional Practice for Engineers	434
Management II	536
Manufacturing Engineering	439
Marine Ecology III	462
Market Research and Project III	538
Marketing Communications III	537
Marketing II	537
Marketing of Rural Commodities	329
Marx and Marxism in the Twenty-First Century	630, 632
Materials and Manufacturing	437
Materials I	409
Materials III(CH)	411
Materials Selection and Failure Analysis	443
Mathematical Biology III	544
Mathematical Economics II	401
Mathematical Physics III	619
Mathematical Programming III	544
Mathematical Statistics III	652
Mathematics for Economists I	400
Mathematics for Information Technology I	538
Mathematics IA	539
Mathematics IB	539
Mathematics IMA	540
Mathematics IMB	540
Mathematics IIM	542
Mathematics of Finance III	546
Mechanical Design Project Level IV	445
Mechanical Honours Project Level IV	442
Mechanical Signature Analysis	444
Mechatronics Design Project Level IV	446
Mechatronics Honours Project Level IV	442
Mechatronics II	438
Mechatronics IIIM	444
Mechatronics IM	436
Media Analysis	344, 346
Media and Culture	343, 346
Media Engagements	552
Media Industry Placement	554
Media Law 2	524
Media Law 4	524
Media Policy and Media Law	552
Media Research Methods	553
Media Studies	452
Media Theory	554
Medical and Scientific Attachment 1	558
Medical and Scientific Attachment 2	558
Medical and Scientific Attachment 3	559
Medical and Scientific Attachment 4	559
Medical and Scientific Attachment 5	559
Medical and Scientific Attachment 6	559
Medical Home Unit	557
Medical Law and Ethics	520
Medical Microbiology and Immunology III	564
Medical Professional & Personal Development I	555
Medical Professional & Personal Development II	556
Medical Professional & Personal Development III	557
Medicine Internship and Common Program VI	561
Medicine SCAP VI	561
Medieval Europe: The Crusades to the Black Death	498, 500
Mental Representation, Consciousness and Self	610, 613

course title	page
Metapsychology: Psychology, Science, Society III	637
Micro-controller Programming	440
Microbiology and Invertebrate Biology	625
Microbiology for Viticulture and Oenology	601
Microbiology II	562
Microbiology II (Biomedical Sc)	563
Microbiology II (Biotechnology)	562
Microeconomic Principles	657
Midi Studies (C4)	599
Mind and Person: Anthropological Perspectives	345, 348
Mind, Brain and Evolution III	636
Mind, Knowledge and God	609
Mineral Exploration III	489
Mineral Nutrition of Plants	625
Minerals and Energy Laws	523
Minerals Processing	413
Modelling Telecommunication Traffic	549
Modelling with Differential Equations II	541
Modern Greek I Part 1	566
Modern Greek I Part 2	566
Modern Greek II Part 1	566
Modern Greek II Part 2	566
Modern Greek III Part 1	566
Modern Greek III Part 2	567
Modern Imagination in Europe	467
Modern Political Theory	629, 632
Molecular and Structural Biology III	361
Molecular Genetics III (Molecular Biology)	481
Molecular Genetics: Genomes and Gene Expression	480
Money, Banking and Financial Markets III	405
Moot A	520
Moot B	521
Moral Problems	610, 612
Morality, Society and the Individual	609
Multimedia Production A	553
Multivariable Calculus II	543
Music & Music Making in the Australian Context III	588
Music Education Ensembles II	581
Music Education Ensembles III	589
Music Education IIA	581
Music Education IIB	581
Music Education IIIA	588
Music Education IIIB	589
Music Education IV	591
Music Education Practicum III	589
Music Foundations I: Classical	572
Music Foundations I: Jazz	572
Music in Context I: Jazz	573
Music in Context I: Tonality & Form in Western Music	572
Music in Context IIA: Jazz	580
Music in Context IIA: Polyphony & Harmony	579
Music in Context IIB: Jazz	580
Music in Context IIB: Nineteenth Century Music	580
Music in Context III: Music since 1900	588
Music in Context IIIA: Jazz	588
Music in Context IIIB: Jazz	588
Music Industry and Business Management	593
Music technology (C4)	599
Music, Media & Contemporary Society II	577
Music, Media & Contemporary Society II (Arts)	577
Music, Media & Contemporary Society III	586
Music, Media & Contemporary Society III (Arts)	586
Musics of the World I	570

N

course title	page
Natural Systems and Design I	392
Natural Systems and Design II	396
Neurobiology III	624
Non-linear Computational Mechanics	441
Number Theory III	547
Numerical Analysis	381
Numerical Analysis and Probability and Statistics	542
Numerical Methods	378
Numerical Methods in Engineering (Chemical)	541
Numerical Methods in Environmental Engineering	428
Nutrition II	470

O

course title	page
Occupational Health & Safety	593
Oil and Gas Resources and Reserves	451
Olive Production and Marketing	501
Opera as Idea and Ideal	468, 469
Operating Systems	380

course title	page
Operations Research II	541
Optical Communication Engineering	434
Optimisation III	546
Options, Futures and Risk Management III	383
Oral Health Elective IIIOH	606
Orchestration II	577
Organisational Behaviour II	536
Organisational Management for Rural Enterprises	329

P

course title	page
Paediatrics and Child Health	560
Palaeobiology III	461
Pamphylia in Antiquity: In-Country Studies	373, 375
Particulate Technology	415
Pathfinders in American Music III	590
Pathogen-Plant Interactions	350
Pathology of Organ Systems	606
Perception and Cognition III	636
Percussion Ensemble I	569
Percussion Ensemble II	576
Percussion Ensemble III	584
PERF 3500A/B Classical Performance III	591
Performance Class	598
Performance I CM	322
Performance I MS	322
Performance II CM	324
Performance II MS	323
Person, Culture and Medicine IA	634
Perspectives on Modern Agriculture	329
Petroleum Engineering Design Project	451
Petroleum Engineering Honours Project	450
Petroleum Exploration III	489
Pharmacology A III	608
Pharmacology B III	608
Pharmacology II	607
Philosophy of Art: Knowledge, Emotion & Intention	611, 614
Photonics II	617
Photonics III	621
Physical Optics III	621
Physics for the Life and Earth Sciences IA	616
Physics for the Life and Earth Sciences IB	616
Physics IA	615
Physics IB	616
Physics IHE	615
Physics IIA	618
Physics IIB	618
Physics of Solid State Devices	620
Physics Principles and Applications I	615
Physics, Ideas and Society I	615
Physics, Ideas and Society II	617
Pig Science	341
Planning and Heritage Law	532
Plant and Animal Diversity	349
Plant and Process Engineering	410
Plant and Safety Engineering	416
Plant Design Project	414
Plant Disease and the Environment	350
Plant Ecology E	459
Plant Food Processing	472
Plant Molecular Biology	626
Politics and Foreign Policy in Contemporary Japan	357, 358
Politics, Ideology and Discourse	630, 632
Politics, Power and Popular Culture	630, 633
Popular Culture: Passion, Style, Tribe	345, 347
Population and Health	483, 485
Population Ecology	460
Population, Globalisation and Social Justice	482
Portfolio Theory and Management III	383
Post-Cold War International Relations	630, 633
Postharvest Horticulture and Marketing	501
Poverty and Development: Conditions and Experience	344, 347
Power Electronics and Drive Systems	434
Power Quality and Condition Monitoring	435
Power: Love and Evil	469, 470
Practical Electrical & Electronic Design III	431
Practical Electronic Design II	430
Practical Extension I	322
Practical Extension II	324
Practical Music Study I CM	321
Practical Music Study I MS	321
Practical Music Study II CM	324
Practical Music Study II MS	325
Practical Study I: Composition	567
Practical Study I: Performance	574
Practical Study IA: Music Technology	573
Practical Study IB: Music Technology	573
Practical Study II: Composition	574
Practical Study II: Jazz	579

course title	page
Practical Study II: Performance	582
Practical Study IIA: Music Technology	581
Practical Study IIB: Music Technology	581
Practical Study III: Composition	582
Practical Study III: Jazz	588
Practical Study III: Performance	591
Practical Study IIIA: Music Technology	590
Practical Study IIIB: Music Technology	590
Primary Care SCAP VI	561
Primary School Interaction	406
Principles and Practice of Communications	332
Principles of Macroeconomics I	399
Principles of Microeconomics I	400
Process Control and Instrumentation	412
Process Design and Plant Engineering	412
Process Design Project (Environmental)	417
Process Design Project (Food, Wine & Biomolecular)	417
Process Dynamics and Control	413
Process Heat Transfer	410
Process Systems	409
Product Engineering & Development	417
Production & Facilities Engineering Fundamentals	447
Production Agronomy	330
Production Horticulture	501
Production Optimisation and Project	450
Professional English (ESL)	452, 455
Professional Ethics	611, 613
Professional Practice	554
Programming Techniques	379
Project Management	450
Project Management for Electrical Engineering	432
Property Law	516
Property Theory	522
Psychological Health	557
Psychological Health SCAP VI	561
Psychological Research Methodology II	635
Psychological Research Methodology III	635
Psychology IA	634
Psychology IB	634
Psychology IIA	635
Psychology IIB	635
Psychology, Physiology and Behaviour III	636
Public and Private Provision of Income Maintenance	522
Public Economics III	404
Public Health IA	638
Public Health IB	638
Public Health Inquiry II	639
Public Health Internship III	641
Public Health Law IIIHS	640
Public Health Sciences II	639
Public Health Theory and Practice III	641
Public Interest Litigation	529
Public International Law	532

Q

Qualitative Research in Practice IIIHS	641
Quantum Mechanics III	619

R

Radio Production A	552
Radio Production B	554
Reaction Engineering	414
Reading and Writing Poetry	454, 457
Real Analysis III	548
Real Time Systems IV	431
Recital	598
Regulation of Competition	530
Reliability and Quality Control	653
Religions of China	357, 358
Remedies	525
Remedies Under the Trade Practices Act	519
Remote Sensing (S)	488
Remote Sensing for Environmental & Agricultural Sciences	646
Renaissance Writing	453, 456
Representing Truth and Reconciliation	454, 457
Research Methods in Environmental Biology III	461
Research Methods in Pharmacology A III	607
Research Methods in Pharmacology B III	608
Research Project A	523
Research Project A (Food Technology and Management)	471
Research Project B	518
Research Project B (Food Technology and Management)	471
Research Project Plant and Pest Science	626
Research Project: Animal Science	340
Research Project: Oenology	601
Research Project: Soil and Land Systems	645

course title	page
Research Project: Wine and Horticulture	501
Research Proposal	558
Research Studies (CASM) I CM	322
Research Studies (CASM) I MS	321
Research Studies (CASM) II CM	325
Research Studies (CASM) II MS	325
Reservoir Characterisation and Modelling	449
Reservoir Engineering	448
Reservoir Geology for Engineers	450
Reservoir Thermodynamics and Fluid Properties	447
Resource & Environmental Economics II	401
Resource & Environmental Economics III	402
Restitution	518
Revenue Law	519
RF Engineering III	431
RF Engineering IV	435
Risk and Moral Panic in Australian Society	477
Robotics M	444
Roman Imperial History A.D. 14-192	373, 375
Roman Law	520
Roman Republican History 133 B.C. - A.D. 14	374-375
Ruling the Waves: Britain 1689-1901	498, 500
Rural Business Management	328
Rural Business Planning A	327
Rural Finance and Marketing 3	327
Rural Public Health IIIHS	640
Russia in Crisis and Revolution 1890-2004	497, 499

S

course title	page
Sampling Theory and Practice III	651
Science, Technology and Medicine in Antiquity	373, 374
Scientific Basis of Medicine I	555
Scientific Basis of Medicine II	555
Scientific Basis of Medicine III	556
Scientific Computing I	538
Screening Australian Social Issues	477, 478
Second Annual B.D.S. Examination	385
Second Annual Oral Health Examination	604
Second Year MBBS Examination	555
Secondary School Interaction	406
Securities and Investment Law	524
Sedimentary & Structural Geology II	487
Sedimentology and Stratigraphy	447
Selected Issues in International Law	518
Selected Issues in Law of Crime	521
Sensory Evaluation of Foods	472
Sensory Studies	601
Separation Processes	411
Signal Processing IV	435
Signals and Systems	429
Small Ensemble (Dip)	597
Small Ensemble 1	596
Social Psychology III	637
Social Research	643
Social Science Techniques	642
Social Sciences in Australia	642
Software Engineering and Project	380
Soil and Water Resources	645
Soil Ecology and Nutrient Cycling	646
Soil Management and Conservation	645
Soil Water Management	646
Soils and Land Management Systems I	644
Sound & Media Technology I	571
Sound Production A	597
Sound Production B	598
South Australian Parliamentary Internship	633
South Australian Parliamentary Internship - Law	633
Southeast Asian Buddhist Social Worlds	345, 348
Space Science and Astrophysics I	615
Space Science and Astrophysics II	618
Space Science and Astrophysics III	621
Space Vehicle Design	439
Spanish I Part 1	647
Spanish I Part 2	648
Spanish II Part 1	648
Spanish II Part 2	648
Spanish III Part 1	648
Spanish III Part 2	648
Spatial Information and Land Evaluation	644
Special Management Studies	414
Special Project (Research Paper) B	328
Special Studies in Chemical Engineering	413
Special Topic in Design Studies IA	391
Special Topic in Design Studies IB	390
Special Topic in Design Studies IC	393
Special Topic in Design Studies IIA	395
Special Topic in Design Studies IIB	393
Special Topic in Design Studies IID	395
Special Topic in Design Studies IIE	394

course title	page
Special Topic in Design Studies IIF	394
Special Topic in Design Studies IIIA	397
Special Topic in Design Studies IIIB	399
Special Topic in Design Studies IIIC	398
Special Topic in Design Studies IIID	398
Special Topic in Design Studies IIIE	398
Special Topic in Design Studies IIIF	398
Special Topics in Environmental Engineering IV N	428
Special Topics in Geotechnical Engineering IV N	427
Special Topics in Management and Planning IV N	427
Special Topics in Structural Engineering IV N	425
Special Topics in Water Engineering IV N	426
Stabilisation and Clarification	602
Stagecraft II	582
Stagecraft III	590
Statics	418
Statistical Mechanics III	620
Statistical Modelling II	650
Statistical Modelling III	651
Statistical Practice I (Life Sciences)	649
Statistical Practice I	649
Statistical Practice II	650
Statutory Interpretation	530
Strategic Management III	536
Strategic Marketing Management	658
Strategic Thinking for Decision Making III	403
Strength of Materials IIA	419
Strength of Materials IIE	420
Stress Analysis (C)	418
Stress Analysis and Design	436
Structural Cell Biology	336
Structural Design and Solid Mechanics	440
Structural Design IIA	420
Structural Design IIB	420
Structural Design III (Concrete)	421
Structural Design III (Steel)	421
Structural Geology and Seismic Methods	449
Structural Mechanics IIIA	421
Structure and Function of the Body IID	386
Studies in Community and Culture I	321
Studies in Community and Culture II	324
Studies in Composition I	570
Studies in Composition II	578
Studies in Composition III	586
Studies in Japanese Music III	590
Style Studies I CM	321
Style Studies I MS	323
Style Studies II CM	323
Style Studies II MS	323
Succession	522
Surficial Geology II	487
Surficial Geology III	488
Surficial Geology III Field Program	489
Surgery Internship VI	561
Surgery SCAP VI	561
Surgical Home Unit	557
Sustaining Australia: The Environmental Challenge	464
System Modelling and Simulation	549
Systematics and Biodiversity	461
Systems Analysis and Project	380
Systems Programming in C and C++	378

T

course title	page
Table and Drying Grape Production	655
Tax and the Revenue Concept	518
Teaching Practice UG Part 1	407
Teaching Practice UG Part 2	407
Technical French (Oenology)	476
Technique & Repertoire Class	598
Technology in the Built Environment II	393
Technology Journal (C4)	599
Technology Law	529
Tectonics III	488
Telecommunications IV	435
Telecommunications Systems Modelling III	546
Telling Tales	454, 456
Terrestrial Ecology III	460
The Conflict of Laws	524
The Media and Social Change	643
The Origins of Modern America	497, 499
The Sexual Body	344, 347
The Short Story: Introduction to Creative Writing	454, 457
The South-East Asian Past	497, 499
The Twentieth Century: A World in Turmoil	496
Theoretical Geophysics III	488
Theoretical Studies	594
Theory of Music	594
Theory of Music (C3)	595

subject title	page
Theory of Music I CM	322
Theory of Music I MS	321
Theory of Music II CM	323
Theory of Music II MS	323
Thermal Process Synthesis and Integration	413
Thermo-Fluids I	437
Thermo-Fluids II	440
Thinking about Politics	628
Third Annual B.D.S. Examination	386
Third Annual Oral Health Examination	605
Third Year MBBS Examination	556
Time Series III	652
Topics in Chemistry IIIA	367
Topics in Chemistry IIIB	367
Topics in Electrical and Electronic Engineering	435
Topics in Welded Structures	443
Topology and Analysis III	547
Tourism Development and Sustainability	466, 467
Toxicology II	607
Traffic Engineering and Design	427
Transform Methods and Signal Processing 550	
Transnational Crime	518
Transport Phenomena	412
Transport Processes in the Environment	412
Twentieth Century Architecture and Landscapes II	394

V

Variational Methods and Optimal Control III	545
Vector Analysis and Complex Analysis	540
Video Production A	553
Video Production B	553
Vineyard and Winery Operations I	600
Vineyard and Winery Operations II	600
Viticultural Engineering and Operations	331
Viticultural Methods and Procedures	655
Viticultural Production	655
Viticultural Science	654
Voice Practicum II	582
Voice Practicum III	590

course title	page

W

Waste Management Analysis and Design	428
Wastewater Engineering and Design	428
Water Engineering & Design IIIA	422
Water Engineering & Design IIIB	422
Water Engineering II S1	420
Water Engineering II S2	420
Well Testing and Pressure Transient Analysis	449
Wine and Food Marketing Principles	656
Wine and Food Tourism and Festivals	660
Wine and Society	657
Wine Law	533
Wine Packaging and Quality Management	601
Wine Retail and Distribution Management	660
Winemaking	602
Winemaking at Vintage	603
Winery Business Management	659
Winery Engineering III	412
Workers Compensation Law	517
World Literature in English	454, 456

Y

Youth, Work and Other Catastrophes	510

Z

Zoology EB II	459

subject title page

subject title page