

2008

The University of Adelaide



Graduate Attributes

The University of Adelaide

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:

- Knowledge and understanding of the content and techniques of a chosen discipline at advanced levels that are internationally recognised.
- The ability to locate, analyse, evaluate and synthesise information from a wide variety of sources in a planned and timely manner.
- An ability to apply effective, creative and innovative solutions, both independently and cooperatively, to current and future problems.
- Skills of a high order in interpersonal understanding, teamwork and communication.
- A proficiency in the appropriate use of contemporary technologies.
- A commitment to continuous learning and the capacity to maintain intellectual curiosity throughout life.
- A commitment to the highest standards of professional endeavour and the ability to take a leadership role in the community.
- An awareness of ethical, social and cultural issues and their importance in the exercise of professional skills and responsibilities.

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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 Mulletts, 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'

Contents



Academic Program Rules

Centre for Aboriginal Studies in Music

Associate Diploma in Aboriginal Studies in Music (New).....	2
---	---

School of Architecture, Landscape Architecture and Urban Design

Bachelor of Design Studies	6
----------------------------------	---

School of Commerce

Bachelor of Business Information Technology.....	14
Bachelor of Commerce.....	18
Bachelor of Commerce (Accounting).....	18
Bachelor of Commerce (Corporate Finance).....	18
Bachelor of Commerce (International Business).....	18
Bachelor of Commerce (Management).....	18
Bachelor of Commerce (Marketing).....	18
Bachelor of Finance.....	24
Bachelor of Finance (International).....	24
Bachelor of Finance (Quantitative).....	24

School of Economics

Bachelor of Economics.....	32
Bachelor of Economics (International Agricultural Business).....	37

School of Education

Bachelor of Teaching	44
----------------------------	----

Faculty of Engineering, Computer and Mathematical Sciences

Bachelor of Computer Graphics.....	51
Bachelor of Computer Science.....	55
Bachelor of Computer Sciences (Software Engineering).....	55
Bachelor of Engineering.....	59
Bachelor of Mathematical Sciences.....	142
Bachelor of Mathematical and Computer Sciences.....	147

Faculty of Health Sciences

Bachelor of Dental Surgery.....	156
Bachelor of Health Sciences.....	160
Bachelor of Medical Science (Honours).....	176
Bachelor of Medicine and Bachelor of Surgery.....	169
Bachelor of Nursing.....	177
Bachelor of Oral Health.....	181
Bachelor of Psychological Science.....	185
Bachelor of Psychology (Honours).....	188
Bachelor of Science in Dentistry (Honours).....	192

Faculty of Humanities and Social Sciences

Diploma in Languages	197
Bachelor of Arts	199
Bachelor of Development Studies.....	214
Bachelor of Environmental Policy and Management	217
Bachelor of International Studies	220
Bachelor of Media.....	223
Bachelor of Social Sciences	226
Bachelor of Arts (Honours)	229
Bachelor of Development Studies (Honours).....	231
Bachelor of Environmental Studies (Honours)	233
Bachelor of International Studies (Honours)	235
Bachelor of Media (Honours).....	237
Bachelor of Social Sciences (Honours)	239
Bachelor of Arts and Bachelor of Science	340

Law School

Bachelor of Laws	244
------------------------	-----

Elder Conservatorium of Music

Certificate III in Music	252
Certificate IV in Music (Classical)	252
Certificate IV in Music (Jazz).....	252
Certificate IV in Music (Technology)	252
Diploma in Instrumental Music	259
Diploma in Music (Classical).....	252
Diploma in Music (Jazz).....	252
Diploma in Music (Sound Engineering).....	252
Bachelor of Music.....	261
Bachelor of Music Education.....	261
Bachelor of Music Studies.....	261
Bachelor of Music (Honours)	261
Bachelor of Music Education (Honours).....	261
Bachelor of Music Studies (Honours).....	261
Appendix : Single Study Courses in the Elder School of Music.....	272

Faculty of Sciences

Diploma in Wine Marketing	283
Bachelor of Agriculture.....	284
Bachelor of Food Science and Technology	287
Bachelor of Oenology	289
Bachelor of Rural Enterprise Management	291
Bachelor of Science	293
Bachelor of Science (Agricultural Science).....	300
Bachelor of Science (Animal Science).....	302
Bachelor of Science (Animal Science Pre-Veterinary)	304
Bachelor of Science (Biomedical Science).....	306
Bachelor of Science (Biotechnology).....	308
Bachelor of Science (Ecochemistry).....	310
Bachelor of Science (Evolutionary Biology).....	312
Bachelor of Science (High Performance Computational Physics)(Honours)	315
Bachelor of Science (Jurisprudence).....	317
Bachelor of Science (Marine Biology)	319
Bachelor of Science (Molecular and Drug Design)	321
Bachelor of Science (Molecular Biology).....	323
Bachelor of Science (Nanoscience and Materials).....	325
Bachelor of Science (Natural Resources)	327
Bachelor of Science (Optics & Photonics).....	329
Bachelor of Science (Petroleum GeoScience)	331

Bachelor of Science (Space Science and Astrophysics).....	333
Bachelor of Science (Viticulture).....	335
Bachelor of Wine Marketing.....	337
Bachelor of Arts and Bachelor of Science.....	340

Syllabuses

Courses are listed in alphabetical order under the following disciplines:

Aboriginal Studies in Music.....	344	Linguistics.....	523
Accounting.....	348	Management.....	526
Agricultural Business.....	349	Marketing.....	528
Agriculture.....	351	Mathematics.....	529
Agronomy.....	351	Media.....	540
Anatomical Science.....	354	Medicinal Studies.....	544
Ancient Greek.....	381	Microbiology.....	550
Animal Science.....	357	Music.....	553
Anthropology.....	360	Music (VET).....	625
Arts.....	366	Nursing Science.....	576
Asian Studies.....	366	Obstetrics & Gynaecology.....	579
Biochemistry.....	370	Oenology.....	579
Biotechnology.....	373	Oral Health.....	582
Chemistry.....	373	Pathology.....	584
Chinese.....	378	Pharmacology.....	585
Classical Studies & Ancient Greek.....	381	Philosophy.....	586
Commerce.....	387	Physics.....	591
Commercial Law.....	387	Physiology.....	598
Computer Science.....	388	Plant Science.....	601
Corporate Finance.....	393	Politics.....	604
Dentistry.....	394	Psychiatry.....	610
Design Studies.....	400	Psychology.....	611
Development Studies.....	407	Public Health.....	614
Economics.....	407	Soil & Water.....	617
Education.....	414	Spanish.....	621
Engineering.....	419	Statistics.....	621
English.....	456	VET Music.....	625
Environmental Biology.....	462	Viticulture.....	631
European Studies.....	467	Wine Marketing.....	633
Food Science & Technology.....	468	Index of Academic Programs.....	638
French Studies.....	471	Index of Courses.....	639
Gender, Work & Social Inquiry.....	473		
General Practice.....	476		
Genetics.....	477		
Geographical & Environmental Studies.....	480		
Geology.....	485		
German Studies.....	490		
History.....	494		
Horticulture.....	499		
Indonesian.....	500		
Information Systems.....	500		
International Business.....	501		
International Studies.....	502		
Japanese.....	502		
Latin.....	505		
Law.....	506		

Glossary of Terms

Academic Program The award in which students are enrolled for study e.g. Bachelor of Arts, Bachelor of Finance, Diploma in Wine Marketing.

Assumed Knowledge A course may list a statement of assumed knowledge. For example, SACE Stage 2 Biology may be listed as assumed knowledge. This indicates the academic background which lecturers of that course will assume a student has. The onus is on the student to determine whether or not they have attained the appropriate level of knowledge. For example, in the above situation, the student may not have completed SACE Stage 2 Biology, but may have read widely in the relevant area, and decide that they have an appropriate level of knowledge. **Note:** a course will be taught on the basis of assumed knowledge. Should a student be uncertain about whether they possess an appropriate level of knowledge, they should discuss this with the course coordinator.

Corequisite A course in which a student must enrol concurrently if the student has not previously passed the course specified as a corequisite. For example Mathematics IA is a corequisite for enrolment in Physics IA; to enrol in Physics IA, a student must either have previously passed Mathematics IA or intends to enrol in it concurrently.

Course To complete an academic program, students enrol in and pass courses as required by the Academic Program Rules for that program.

Incompatible A course/courses which has/have substantially similar content to the specified course. Students should not enrol in the specified course if they have previously passed a course listed as incompatible, as they will not be able to present that course towards their award.

Non-award Study University study undertaken for personal interest or professional development, in which the courses completed do not count towards a specific academic program. In the case of non-award study, where courses specify prerequisites, these prerequisites are considered as statements of assumed knowledge. Note that non-award study involves the payment of up-front tuition fees for the course.

Prerequisite A prescribed requirement that must be fulfilled before a student can enrol in the specified course. For example, SACE Stage 2 Chemistry is a prerequisite for the course Chemistry IA, while Psychology IA and Psychology IB are prerequisites for the course Psychological Research Methodology II. A student may not enrol in a course that specifies prerequisites unless they satisfy the prerequisites. Prerequisites are specified to protect students from enrolling in a course for which they do not have the appropriate background. Often, this relates to the need for students to possess certain skills and/or knowledge developed in the prerequisite course, which are extended in the specified course. For example, Mathematics IA is a prerequisite for a student wishing to enrol in Mathematics IB. Note that where prerequisites specify a University of Adelaide course, a conceded pass is not sufficient to satisfy that prerequisite.

Quota Some courses will have a limit on the maximum number of students who may enrol in the specified course.

Restriction Some courses are available only to students in certain academic programs. For example, dentistry courses are only available to students enrolled in the Bachelor of Dentistry or Bachelor of Oral Health. Note that in some cases, the restriction may only appear for a particular semester of a course offering e.g. the course Accounting for Decision Makers I is offered in semester 1 and semester 2, however, only students in the Bachelor of Commerce may enrol in the semester 1 offering of that course.

SACE Stage 2 Subject A full-year or semester-length subject taken within the second year of the South Australian Certificate of Education.

Unit Courses are assigned a numerical unit value, which reflects the total study commitment associated with that course. The study commitment includes both the formal contact time required for the course (e.g. lectures, tutorials, practicals), as well as non-contact time. Non-contact time will be required for a range of activities which may include, but are not limited to, reading, researching, note-taking, revision, writing, consultation with staff, and informal discussions with other students. While the relative proportion of contact and non-contact time may vary from course to course, a full-time student should expect to spend, on average, a total of 48 hours per week on their studies. For a 3-unit course, this would equate, on average, to 12 hours per week.



Academic Program Rules



Academic Program Rules

Centre for Aboriginal Studies in Music

Contents

Associate Diploma in Aboriginal Studies in Music (New)	Ass.Dip.Ab.St.Mus.(New).....	2
---	------------------------------	---

Undergraduate Awards

- Associate Diploma in Aboriginal Studies in Music (New)

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.



Associate Diploma in Aboriginal Studies in Music

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 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 knowledge and experience 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 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.
- 4.2 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, and Non Graded Pass.
A grade of Conceded Pass will not be offered for courses in this program.
- 4.3 Candidates are required to attend a minimum of 70% of classes for all enrolled CASM courses. Formal approved leave provisions apply for variations to this rule. Students who do not comply with these requirements may be failed in a given course. Full details of attendance regulations and approved leave provisions are available in the CASM Academic Program Handbook and from the CASM Coordinator (Academic Programs) and course lecturers.

- 4.4 A candidate who fails a course, and who desires to take that course again shall, unless exempted wholly or partially therefrom by the CASM Coordinator (Academic Programs), 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 may not enrol for that course again or for any other course which, in the opinion of CASM Coordinator (Academic Programs), contains a substantial amount of the same material, except by special permission of the CASM Coordinator (Academic Programs) and then only under such conditions as the CASM Coordinator (Academic Programs) may prescribe.

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 CASM Coordinator (Academic Programs) 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 CASM Coordinator (Academic Programs), 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 the CASM Coordinator (Academic Programs), 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 I

Either

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

or

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

and

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

Level II

Either

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

or

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

and

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

and either

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

MUSIC 2017 A/B General Studies (New) II Pt 1 & 2.....	3
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- 5.1.6 A candidate who satisfactorily completes all of the requirements of Level 1 of the program, but does not wish to proceed to the Associate Diploma may be awarded, upon application, the Advanced Certificate in Aboriginal Studies in Music (New).
- 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.

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.



Academic Program Rules

School of Architecture, Landscape Architecture and Urban Design

Contents

Bachelor of Design Studies B.Des.St	6
--	---

Undergraduate Awards

- 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*

* Please note there will be no further intake into these programs. Rules are listed in the 2007 Undergraduate Calendar.

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.

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, or without a major.
- 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 & 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 2036 Technology in Design	8
DESST 2037 Cultures, Histories and Designed Environments	8
LAW 1002 Law of Torts	4
LAW 1003 Law of Contract	4

Level III

DESST 3027 Design for Sustainable Community...	6
DESST 3029 Architecture Design Studio	6

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

12
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 be four classifications of pass: Pass with High Distinction, Pass with Distinction, Pass with Credit, Pass. There shall also be a classification of Conceded Pass. A candidate may present for the degree a limited number of courses for which a conceded pass has been awarded, as specified in the relevant Rule under these Academic Program Rules.
- 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 Department concerned, again complete the required work in that course to the satisfaction of the teaching staff concerned.

- 4.5 Conceded passes cannot be presented for any compulsory Design Studies courses. A candidate may present for the degree Level I, II or III elective courses for which a conceded pass grade has been awarded to a maximum aggregate value of 6 units.
- 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.

4.8 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, and/or be precluded from undertaking further studies toward their program.

5 Qualification requirements

5.1 Academic Program

5.1.1 The Bachelor degree

Note: To students commencing this program in 2008

This program is currently under review, and there may be changes to the structure and the courses offered in this program from 2009. While the courses listed at Level I reflect the courses available in 2008, courses listed at higher Levels should be considered as indicative only.

- 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 1027 Human Environments: Design and Representation	6
DESST 1028 Natural and Urban Systems	3
DESST 1029 Construction and Design: Theories and Practice	6
DESST 1030 History of Settlements	3
Level I Electives to the value of 6 units	6

Level II

DESST 2036 Technology in Design.....	8
DESST 2037 Cultures, Histories and Designed Environments.....	8
Level II Electives to the value of 8 units	8

Level III

DESST 3027 Design for Sustainable Community	6
DESST 3029 Architecture Design Studio.....	6
Level III Electives to the value of 12 units	12

- 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 1027 Human Environments: Design and Representation.....	6
DESST 1028 Natural and Urban Systems.....	3
DESST 1029 Construction and Design: Theories and Practice.....	6
DESST 1030 History of Settlements	3
Level I Electives to the value of 6 units	6

Level II

DESST 2036 Technology in Design.....	4
DESST 2037 Cultures, Histories and Designed Environments.....	8
Level II Electives to the value of 8 units	8

Level III

DESST 3027 Design for Sustainable Community...6	
DESST 3028 Natural and Landscape Systems	6
DESST 3030 Landscape Architecture Design Studio	6
Level III Electives to the value of 6 units	6

- 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 1027 Human Environments: Design and Representation.....	6
DESST 1028 Natural and Urban Systems.....	3
DESST 1029 Construction and Design: Theories and Practice.....	6
DESST 1030 History of Settlements	3
Level I Electives to the value of 6 units	6

Level II

DESST 2036 Technology in Design.....	8
DESST 2037 Cultures, Histories and Designed Environments.....	8
Level II Electives to the value of 8 units	8

Level III

DESST 3027 Design for Sustainable Community...6	
DESST 3028 Natural and Landscape Systems	6
DESST 3029 Architecture Design Studio.....	6
DESST 3030 Landscape Architecture Design Studio	6

- 5.1.1.4 To qualify for the degree of Bachelor of Design Studies without a major, a candidate shall pass the following courses to the value of at least 72 units:

Level I

DESST 1027 Human Environments: Design and Representation.....	6
DESST 1028 Natural and Urban Systems.....	3
DESST 1029 Construction and Design: Theories and Practice.....	6
DESST 1030 History of Settlements	3
Level I Electives to the value of 6 units	6

Level II

DESST 2036 Technology in Design.....	4
DESST 2037 Cultures, Histories and Designed Environments.....	8
Level II Electives to the value of 8 units	8

Level III

DESST 3027 Design for Sustainable Community...6	
Level III Electives to the value of 18 units	18

- 5.1.1.5 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 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 1026 Special Topic in Design Studies IC....3	
DESST 1031 Special Topic in Design Studies ID....3	

Level II

DESST 2000 Special Topic in Design Studies IIC... 4	
DESST 2003 Islamic Architecture & Gardens II.....4	
DESST 2006 Special Topic in Design Studies 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 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 2038 Digital Media II	4

Level III

DESST 3000 Conservation in the Built Environment III.....	6
DESST 3005 Special Topic in Design Studies IIIA.....	6
DESST 3012 Colonial and Contemporary Issues in South Asian Architecture III.....	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 & Gardens III....	6
DESST 3024 Special Topic in Design Studies IIIB	6
DESST 3031 Digital Media Studio.....	6

Economics courses

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

Engineering courses

Level I

C&ENVEG 1000 Engineering Planning and Design.....	2
C&ENVEG 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
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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*

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 Conservatorium of Music and approved by them.

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.

- 5.1.1.6 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.
- 5.1.1.7 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, or in the Bachelor of Design Studies program between 1997 to 2005, shall have status in equivalent courses under these Academic Program Rules.
- 5.1.1.8 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.

Transition Arrangements from 2006 (not forming part of the Academic Program Rules)

- A student who has completed only one of DESST 1023 Computer-Aided Design I and DESST 1024 Drawing Architecture and Landscape I will be required to enrol in DESST 1027 Human Environments: Design and Representation and will be granted appropriate exemption from components of the course already completed.
- A student who has completed only one of DESST 1008 Composing Architecture and Landscape I and DESST 1014 Construction I will be required to enrol in DESST 1029 Construction and Design: Theories and Practice and will be granted appropriate exemption from components of the course already completed.
- A student who has completed only one of DESST 2005 Technology in the Built Environment II and DESST 2034 Domestic Scale Construction II will be required to enrol in DESST 2036 Technology in Design and will be granted appropriate exemption from components of the course already completed.
- A student who has completed only one of DESST 2023 Design and Environments II and DESST 2016 Twentieth Century Architecture and Landscapes II will be required to enrol in DESST 2037 Cultures, Histories and Designed Environments and will be granted appropriate exemption from components of the course already completed.

Graduate Attributes

Bachelor of Design Studies

Knowledge

- To form and express deep criticism of architectural and landscape design objects from a broad perspective
- To generate and present relevant proposals for intervention in situations in the built environment
- 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 & manipulating spatial objects:

- 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.

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 present 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
- To demonstrate the understanding of the synergies between architecture and landscape architecture.



Academic Program Rules

School of Commerce

Contents

Bachelor of Business Information Technology B.Bus.IT.....	14
Bachelor of Commerce B.Com.....	18
Bachelor of Commerce (Accounting) B.Com. (Accounting).....	18
Bachelor of Commerce (Corporate Finance) B.Com. (Corporate Finance).....	18
Bachelor of Commerce (International Business) B.Com. (International Business).....	18
Bachelor of Commerce (Management) B.Com. (Management).....	18
Bachelor of Commerce (Marketing) B.Com. (Marketing).....	18
Bachelor of Finance B.Fin.....	24
Bachelor of Finance (International) B.Fin. (International).....	24
Bachelor of Finance (Quantitative) B.Fin. (Quantitative).....	24

Undergraduate Awards

- 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)
- Degree of Bachelor of Finance
- Degree of Bachelor of Finance (International)
- Degree of Bachelor of Finance (Quantitative)
- 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 Business Information Technology

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
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 five classifications of pass in each course for the degree, as follows: Pass with High Distinction, Pass with Distinction, Pass with Credit, Pass, conceded Pass.
- 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.

3.8 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, and/or be precluded from undertaking further studies toward their program

4 Qualification requirements

Note To students commencing this program in 2008

This program is currently under review, and there may be changes to the structure and the courses offered in this program from 2009. While the courses listed at Level I reflect the courses available in 2008, courses listed at higher levels should be considered as indicative only.

Students commencing study in 2008 will be provided with access to the revised Academic Program Rules for this program as part of their enrolment process. The revised Rules will be available from the following web address:
www.adelaide.edu.au/calendar

- 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,
ECONMRCE 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) ECONMRCE 2004 Internet Commerce II plus 8 units of Level II Commerce courses
 - (c) ECONMRCE 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 Level II and Level III courses for which a conceded pass has been awarded to a maximum aggregate value of 6 units, providing that each course does not exceed 3 units. Conceded passes cannot be presented for those courses listed in 4.1 above and the Bachelor of Commerce Academic Program Rules.
- 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 enrolls 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.

Graduate Attributes

Bachelor of Business Information Technology

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
- A commitment to intellectual curiosity and lifelong learning
- Teamwork and leadership capabilities
- Confidence in their professional and interpersonal skills.

Attitudes and values

- An 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
- A commitment to the highest standards of ethical behaviour in the community.



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)

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 five classifications of pass in each course for the Bachelor degree, as follows: Pass with High Distinction, Pass with Distinction, Pass with Credit, Pass, Conceded Pass.
- 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 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.

3.8 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, and/or be precluded from undertaking further studies toward their program.

4 Qualification requirements

Note To students commencing this program in 2008

This program is currently under review, and there may be changes to the structure and the courses offered in this program from 2009. While the courses listed at Level I reflect the courses available in 2008, courses listed at higher levels should be considered as indicative only.

Students commencing study in 2008 will be provided with access to the revised Academic Program Rules for this program as part of their enrolment process. The revised Rules will be available from the following web address: www.adelaide.edu.au/calendar

- 4.1 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. For the purpose of

qualifying for this degree ECON 2012 Financial Economics II is considered a Commerce course.

- 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 Level II and Level III courses for which a conceded pass has been awarded to a maximum aggregate value of 6 units, providing that each course does not exceed 3 units. Conceded passes cannot be presented for those courses listed in 4.4.3, 4.8.1 and 4.8.2 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:

- 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
ECOMMRC 1000 Information Systems I@	3

Level II

ACCTING 2001 Management Accounting II@	4
ACCTING 2010 Financial Accounting II@	4
COMMGMGT 2007 Organisational Behaviour II+ ..	4
COMMGMGT 2008 Management II+	4

COMMLAW 2000 Commercial Law II [@]	4
CORPFIN 2006 Business Finance II ^{@#}	4
CORPFIN 2008 Financial Institutions Management II [#]	4
ECOMMRCE 2003 Information Systems II.....	4
ECOMMRCE 2004 Internet Commerce II.....	4
INTBUS 2000 International Business 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
COMMGMT 3015 Organisational Dynamics 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 & Risk Management III [#]	4
CORPFIN 3019 Corporate Investment & Strategy III [#]	4
ECOMMRCE 3016 Electronic Commerce III.....	4
INTBUS 3000 Corporate Responsibility for Global Business 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

[^] International Business 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 enrolls 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.IT., 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.

Graduate Attributes

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)

Knowledge

- A thorough knowledge and understanding of the content of their major discipline at levels that are internationally recognised
- Some understanding of other related disciplines.

Intellectual and social capabilities

- Ability to research, analyse and evaluate information in their chosen discipline from a wide variety of sources
- Ability to identify problems and apply critical thinking and problem solving skills both independently and cooperatively
- A high level of literacy and numeracy and the ability to verbally communicate information and ideas
- Ability to work effectively individually and as a team member
- A general understanding of and an ability to use modern information technology
- Ability to keep up-to-date in their chosen discipline
- A commitment to intellectual curiosity and life-long learning
- Ability to adapt to a changing environment
- Confidence in their professional and interpersonal skills
- Ability to take a leadership role in their chosen discipline and in the wider community
- Ability to work to the highest standard in their chosen discipline
- Ability to act in a professional manner.

Attitudes and values

- An awareness of and commitment to the ethical standards expected in their chosen discipline
- Being informed about social, ethical and cultural issues in Australia and the rest of the world
- A commitment to the highest standards of ethical behaviour in the community.



Bachelor of Finance

Bachelor of Finance (International)

Bachelor of Finance (Quantitative)

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 five classifications of pass in each course for the Bachelor degree, as follows: Pass with High Distinction, Pass with Distinction, Pass with Credit, Pass, 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 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 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.

3.7 Academic Progress

The Faculty may prescribe rules for review of academic progress. Any student who meets the requirement 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, and/or be precluded from undertaking further studies toward their program.

4 Qualification requirements

Note To students commencing this program in 2008

This program is currently under review, and there may be changes to the structure and the courses offered in this program from 2009. While the courses listed at Level I reflect the courses available in 2008, courses listed at higher levels should be considered as indicative only.

Students commencing study in 2008 will be provided with access to the revised Academic Program Rules for this program as part of their enrolment process. The revised Rules will be available from the following web address:
www.adelaide.edu.au/calendar

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
 - 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 I A/B
or
 MATHS 1011/1013 Mathematics IA/IMA
or
 MATHS 1011 Mathematics I A
and
 MATHS 1013 Mathematics IM A
 STATS 1000 Statistical Practice I
- (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 & 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:
 MATHS 1011/1012 Mathematics I A/B
 MATHS 1011/1013 Mathematics IA/IM A
 STATS 1000 Statistical Practice I
 APP MTH 2005 Financial Computing II
 MATHS 2004 Mathematics IIM or
 STATS 2002 Introduction to Mathematical Statistics II
 STATS 2003 Statistical Practice II
 APP MTH 3011 Financial Modelling Techniques III
and
 One other Level III Mathematics course.
- 4.4 To qualify for a Bachelor of Finance degree a 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 School.
- 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 School. However, this requirement may be waived in special circumstances approved by the School.
- 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 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 Level II and Level III courses for which a Conceded Pass has been awarded, to a maximum aggregate value of 6 units, providing that each course does not exceed 3 units. Conceded passes cannot be presented 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.....	3
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 3032 International Finance III	4
ECON 3034 Economic Theory III.....	4
ECON 3035 Money, Banking and Financial Markets III	4
STATS 3005 Time Series III.....	3

and

one other level III Math course.

(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 School.
- 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 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 Schools of Economics, Commerce or Mathematical and Computer Sciences.

- 4.9.4 Except with the permission of the School, 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 School, 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 COMMERCE 4005 A/B Honours Commerce.
- 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 School 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 School 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 School, 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.

Graduate Attributes

Bachelor of Finance

Bachelor of Finance (International)

Bachelor of Finance (Quantitative)

Knowledge

- Knowledge and understanding 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 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 financial problems
- Numeracy skills, especially in statistics and econometrics
- Literacy and verbal communication skills of a high order in the presentation of arguments or evidence of a financial nature
- Skills in interpersonal understanding, with the capacity to communicate effectively and to work both independently and cooperatively with other professional 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 finance areas
- To stimulate and maintain intellectual curiosity and a commitment to continuous learning
- The ability to take a leadership role in the 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 finance specialists, in the workforce more generally, and both in Australia and abroad
- A commitment to the highest standards of ethical behaviour
- An abiding sense of curiosity and enquiry both within and beyond the discipline.



Academic Program Rules

School of Economics

Contents

Bachelor of Economics B.Ec	32
Bachelor of Economics (International Agricultural Business) B.Ec.(Int.Ag.Bus.)	37

Undergraduate Awards

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

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

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. There shall also be a classification of Conceded Pass. A candidate may present for the degree a limited number of courses for which a conceded pass has been awarded, as specified in the relevant Rules under these Academic Program Rules.
- 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.

3.6 Academic Progress

The Faculty may prescribe rules for review of academic progress. Any student who meets the requirement 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, and/or be precluded from undertaking further studies toward their program.

4 Qualification requirements

Note To students commencing this program in 2008

This program is currently under review, and there may be changes to the structure and the courses offered in this program from 2009. While the courses listed at Level I reflect the courses available in 2008, courses listed at higher levels should be considered as indicative only.

Students commencing study in 2008 will be provided with access to the revised Academic Program Rules for this program as part of their enrolment process. The revised Rules will be available from the following web address: www.adelaide.edu.au/calendar

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 at 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 Level I, II and III courses for which a Conceded Pass has been awarded to a maximum aggregate value of 6 units, providing that each course does not exceed 3 units. Conceded passes cannot be presented for those courses listed in 4.7.1(a), 4.7.1(b) and 4.7.1(e).

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 I A/B or MATHS 1013/1014 Mathematics IM A/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.
- 5 Students following the Accounting pathway may count ACCTING 3011 Corporate Accounting III as a fourth Level III Economics course, if the student has three (3) Level III Economics courses as part of their program

4.7 Academic program

- 4.7.1 The following may be presented for the Bachelor degree:

(Note: 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 2003 East Asia Economics II.....	4
ECON 2005 Mathematical Economics II.....	4
ECON 2006 Economic & 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
ECON 3037 Public Finance III	4

* not available in 2008

(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 .

(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 4003 A/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), ECON 3023 Econometrics III and at least one other Level III course in economics, and must obtain at least a high credit standard in all three of these courses, together with a high standard in other courses presented for the Bachelor degree, subject to approval from the School of Economics. ECON 3013 Applied Econometrics

may serve as a substitute for ECON 3023 Econometrics III. Students who have not passed ECON 2005 Mathematical Economics II (or MATHS 1011/1012 Mathematics I A/B or MATHS 1013/1014 Mathematics IM A/B) 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 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)

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. A candidate may present for the degree a limited number of courses for which a conceded pass has been awarded, as specified in the relevant Rules under these Academic Program Rules.. 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

3.6 Academic Progress

The Faculty may prescribe rules for review of academic progress. Any student who meets the requirement 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, and/or be precluded from undertaking further studies toward their program.

4 Qualification requirements

Note To students commencing this program in 2008

This program is currently under review, and there may be changes to the structure and the courses offered in this program from 2009. While the courses listed at Level I reflect the courses available in 2008, courses listed at higher levels should be considered as indicative only.

Students commencing study in 2008 will be provided with access to the revised Academic Program Rules for this program as part of their enrolment process. The revised Rules will be available from the following web address: www.adelaide.edu.au/calendar

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 Wine and Food Marketing Principles 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 Level I, II and III courses for which a Conceded Pass has been awarded to a maximum aggregate value of 6 units, providing that each course does not exceed 3 units. Conceded passes cannot be presented for those courses listed in 4.6.1(a), 4.6.1(b), 4.6.1(d) and 4.6.1(e).

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 2003 East Asian Economies II.....	4
ECON 2005 Mathematical Economics II.....	4
ECON 2006 Economic & 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.....	4
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 3037 Public Finance III.....	4

* Not available in 2008

(b) Sciences courses

Level I

WINEMKTG 1013WT Wine and Food Marketing Principles.....	3
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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 Wine Retail & Distribution Management III.....	4
WINEMKTG 3047WT Internet Marketing & E-Commerce.....	4
WINEMKTG 3065WT Database Marketing for Food and Wine 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.

Graduate Attributes

Bachelor of Economics

Bachelor of Economics (International Agricultural Business)

Knowledge

- Knowledge and understanding of the content of economics 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 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 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 nature
- Skills in interpersonal understanding, with the capacity to communicate effectively and to work both independently and with other professional economics 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 areas
- To stimulate and maintain intellectual curiosity and a commitment to continuous learning
- The ability to take a leadership role in the economics 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 specialists and in the workforce more generally, in both 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.



Academic Program Rules

School of Education

Contents

Bachelor of Teaching B.Teach.....	44
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Undergraduate Awards

- 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.



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 Assessment and examinations

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.

3.1.1 No student may be granted more than 12 units of status to 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. There shall also be a classification of Conceded Pass. Courses for which a conceded pass has been awarded may not be presented towards the degree nor to satisfy prerequisite requirements within any education course.

4.2 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 enrol 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, with 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

Note: To students commencing this program in 2008

This program is currently under review, and there may be changes to the structure and the courses offered in this program from 2009. While the courses listed at Level I reflect the courses available in 2008, courses listed at higher Levels should be considered as indicative only.

5.1 Academic program

A Bachelor of Teaching is a double degree qualification. To qualify for the Bachelor of Teaching a candidate shall successfully complete courses towards the double degree with a combined value of not less than 96 units, which satisfy the following requirements:

(a) a candidate must qualify for a degree in Arts, Economics, Science or Mathematical and Computer Sciences at the University of Adelaide

(b) a candidate must pass courses including:

5.1.1 Level I

EDUC 1000 Primary School Interaction3

5.1.2 Level II

EDUC 2000 Issues in Contemporary Education ...4

5.1.3 Level III

EDUC 3000 Secondary School Interaction.....2

5.1.4 Level IV Education courses

Students must successfully complete courses to the value of 24 units comprising 6 units of Teaching Practice courses, 6 units of Curriculum and Methodology courses, 6 units of Curriculum Issues in Australian Schools courses and 6 units of Education Studies courses, as follows:

Teaching Practice

EDUC 4702 Teaching Practice Part I (UG)3

EDUC 4703 Teaching Practice Part II (UG)3

Curriculum and Methodology

Courses to a value of 6 units chosen from:

Humanities

EDUC 4320 A/B Geography Curriculum & Methodology (UG) 2

EDUC 44322 A/B History Curriculum & Methodology (UG) 2

EDUC 4334 A/B Studies of Society and Environment (UG) 2

Business

EDUC 4308 A/B Accounting Curriculum & Methodology (UG) 2

EDUC 4311 A/B Business Studies Curriculum & Methodology (UG) 2

EDUC 4315 A/B Economics Curriculum & Methodology (UG) 2

English

EDUC 4319 A/B General English Curriculum & Methodology (UG) 2

EDUC 4332 A/B Senior English Curriculum & Methodology (UG) 2

Languages other than English

EDUC 4313 A/B Chinese Curriculum & Methodology (UG) 2

EDUC 4316 A/B English as a Second Language (UG) 2

EDUC 4318 A/B French Curriculum & Methodology (UG) 2

EDUC 4321 A/B German Curriculum & Methodology (UG) 2

EDUC 4333 A/B Indonesian Curriculum & Methodology (UG) 2

EDUC 4326 A/B Italian Curriculum & Methodology (UG) 2

EDUC 4327 A/B Japanese Curriculum & Methodology (UG) 2

EDUC 4330 A/B Language Methodology (UG) 2

EDUC 4339 A/B Languages Education for TESOL (UG) 2

EDUC 4335 A/B Spanish Curriculum & Methodology (UG) 2

EDUC 4336 A/B Other Languages Curriculum & Methodology (UG) 2

EDUC 4337 A/B Vietnamese Curriculum & Methodology (UG) 2

EDUC 4338 A/B Modern Greek Curriculum & Methodology (UG) 2

Mathematics

EDUC 4324 A/B Information Technology Curriculum & Methodology (UG) 2

EDUC 4328 A/B Junior Mathematics Curriculum & Methodology (UG) 2

EDUC 4333 A/B Senior Mathematics Curriculum & Methodology (UG) 2

Music

EDUC 4314 A/B Classroom Music Curriculum & Methodology (UG) 3

EDUC 4325 A/B Instrumental Music Curriculum & Methodology (UG) 3

Science

EDUC 4310 A/B Biology Curriculum & Methodology (UG) 2

EDUC 4312 A/B Chemistry Curriculum & Methodology (UG) 2

EDUC 4329 A/B Junior Science Curriculum & Methodology (UG) 2

EDUC 4331 A/B Physics Curriculum and Methodology (UG) 2

EDUC 4340 A/B Psychology Curriculum & Methodology 2

General

EDUC 4309 A/B Adult Learner Curriculum & Methodology (UG) 2

EDUC 4317 A/B Extended Specialist Curriculum (UG) 2

Curriculum Issues in Australian Schools

EDUC 4704 Professional Practice & ICT for Teachers (UG) 2

EDUC 4705 Curriculum & Assessment of Learning (UG) 2

EDUC 4707 Culture, Education & Society (UG) 2

Education Studies

EDUC 4701 Student-Teacher Interaction in the Classroom Pt 1 (UG) 2

EDUC 4706 Student-Teacher Interaction in the Classroom Pt 2 (UG) 2

EDUC 4700 Families, Schools & Students' Outcomes (UG) 2

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.

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.

Graduate Attributes

Bachelor of Teaching

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
- Proficiency in the appropriate and responsible use of modern technologies
- A commitment to participate responsibly and critically within their discipline 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.

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 concerns of families, peers and neighbourhoods into 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.



Academic Program Rules

Faculty of Engineering, Computer and Mathematical Sciences

Contents

Bachelor of Computer Graphics B.Comp.Graphics	51
Bachelor of Computer Science B.Comp.Sc.....	55
Bachelor of Computer Science (Software Engineering) B.Comp.Sc. (Software Eng.).....	55
Bachelor of Engineering B.E.	59
Bachelor of Mathematical Sciences B.Math.Sc.....	142
Bachelor of Mathematical and Computer Sciences B.Ma.& Comp.Sc.....	147

Undergraduate Awards

- Degree of Bachelor of Computer Graphics
- Degree of Bachelor of Computer Science
- Degree of Bachelor of Computer Science (Software Engineering)
- Degree of Bachelor of Engineering in Aerospace Engineering
- Degree of Bachelor of Engineering in Architectural Engineering
- Degree of Bachelor of Engineering in Automotive Engineering
- Degree of Bachelor of Engineering in Avionics and Electronic Systems Engineering
- Degree of Bachelor of Engineering in Chemical Engineering
- Degree of Bachelor of Engineering in Chemical (Energy & Environment)
- Degree of Bachelor of Engineering in Chemical (Process & Product Engineering))
- Degree of Bachelor of Engineering in Chemical (Food, Wine & Biomolecular))
- Degree of Bachelor of Engineering in Civil and Environmental Engineering
- Degree of Bachelor of Engineering in Civil and Structural Engineering
- Degree of Bachelor of Engineering in Computational Engineering
- Degree of Bachelor of Engineering in Computer Systems Engineering
- Degree of Bachelor of Engineering in Electrical and Electronic Engineering
- Degree of Bachelor of Engineering in Electrical and Electronic Engineering and Bachelor of Science (Physics)
- Degree of Bachelor of Engineering in Mechanical Engineering
- Degree of Bachelor of Engineering in Mechatronic Engineering
- Degree of Bachelor of Engineering in Mining Engineering

- Degree of Bachelor of Engineering in Petroleum Engineering
- Degree of Bachelor of Engineering in Petroleum Engineering and Bachelor of Engineering in Chemical Engineering
- Degree of Bachelor of Engineering in Petroleum Engineering and Bachelor of Engineering in Civil and Environmental Engineering
- Degree of Bachelor of Engineering in Petroleum Engineering and Bachelor of Engineering in Civil and Structural Engineering
- Degree of Bachelor of Engineering in Petroleum Engineering and Bachelor of Engineering in Mechanical Engineering
- Degree of Bachelor of Engineering in Petroleum Engineering and Bachelor of Science (Geology and Geophysics)
- Degree of Bachelor of Engineering in Pharmaceutical Engineering
- Degree of Bachelor of Engineering in Software Engineering
- Degree of Bachelor of Engineering in Sports Engineering
- Degree of Bachelor of Engineering in Sustainable Energy Engineering
- Degree of Bachelor of Engineering in Telecommunications Engineering
- Degree of Bachelor of Engineering and Bachelor of Arts*
- Degree of Bachelor of Mathematical Sciences
- Degree of Bachelor of Mathematical and Computer Sciences
- Honours degree of Bachelor of Computer Science
- Honours degree of Bachelor of Mathematical Sciences
- Honours degree of Bachelor of Mathematical and Computer Sciences

* Available in disciplines of Chemical, Civil, Computer Systems, Electrical & Electronic, Environmental, Mechanical, Mechatronic and Telecommunications 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 Graphics

1 General

- 1.1 There shall be a degree of Bachelor of Computer Graphics in the Faculty of Engineering, Computer and Mathematical Sciences.

2 Duration of program

The program of study for the Bachelor degree 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.
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 obtains a conceded pass result 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 Computer Graphics

- 4.1.1 The program of study for the degree of Bachelor of Computer Graphics shall extend over three years of full time study or equivalent.
- 4.1.2 To qualify for the Bachelor degree a candidate shall, subject to 4.1.4 below, present passes in courses from 4.2 to the value of at least 72 units including:
- (a) at least 24 units for Level I courses
 - (b) at least 18 units for Level II courses
 - (c) at least 24 units for Level III courses
 - (d) at least 45 units for Level II and Level III courses.
- 4.1.3 The courses presented must include
- (a) One of the following:
 - MATHS 3015 Communication Skills III3
 - (b) At least one of the following at the level of Pass or higher:
 - MATHS 1008 Mathematics for Information Technology I.....3
 - MATHS 1012 Mathematics IB.....3
 - (c) The following Design Studies courses:
 - DESST 1007 Special Topics in Design Studies IA.....3
 - DESST 2038 Digital Media II6
 - DESST 3031 Digital Media Studio.....6
 - (d) At least 12 units of Level II Computer Science courses with at least 9 units at the level of Pass or higher.
 - (e) At least 18 units of Level III Computer Science courses with at least 12 units at the level of Pass or higher.
 - (f) The Computer Science courses at the level of Pass or higher must include:
 - COMP SCI 1008 Computer Science IA.....3
 - COMP SCI 1009 Computer Science IB.....3
 - COMP SCI 2000 Computer Systems3
 - COMP SCI 2004 Data Structures & Algorithms3
 - COMP SCI 3006 Software Engineering & Project.....3
 - COMP SCI 3014 Computer Graphics.....3

- (g) The Computer Science courses must include:
- COMP SCI 1003 Internet Computing.....3
 - COMP SCI 2005 Systems Programming
in C and C++3
 - COMP SCI 2006 Introduction to Software
Engineering.....3
 - COMP SCI 3007 Artificial Intelligence.....3
 - COMP SCI 3013 Event Driven Computing.....3

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

A graduate who qualifies for the Bachelor of Computer Graphics will be considered to have qualified for a major in Computer Science.

- 4.1.4 A candidate may present for the degree courses passed at the conceded pass level 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.
- 4.1.5 A graduate who wishes to qualify for the Bachelor degree of Bachelor of Computer Graphics 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 4.1.2 and 4.1.3 above. The courses presented must include Level II and Level III courses from 4.2 below to the value of at least 24 units, which have not been presented for any other degree. At least 18 units of the new courses must be at Level III
 - or*
 - (b) presents a range of courses as determined by the Faculty in accordance with any formal articulation programs approved by the Faculty
 - (c) Subject to any formal articulation programs approved by Faculty, a candidate qualifying for the degree under this clause may not present more than 3 units of courses at the Conceded Pass level.
- 4.1.6 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.
- 4.1.7 Students who have completed at another institution part of the equivalent of the requirements for the Adelaide degree of Bachelor of Computer Graphics will be required as a minimum to complete Level III courses from 4.2 with an aggregate unit value of 24 satisfying the requirements of 4.1.3.

- 4.1.8 With special permission of the Faculty, a student who has completed most of the courses for the degree of Bachelor of Computer Graphics at the University of Adelaide including Level III Computer Science courses with an aggregate unit 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.

4.2 Program of study for the degree of Bachelor of Computer Graphics

Note: Students are advised that some courses cannot be counted with others towards the degree of Bachelor of Computer Graphics.

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 Computer Graphics may not be offered. The availability of all courses is conditional upon the availability of staff and facilities.

4.2.1 Level I

Courses offered at level I towards a degree program at the University of Adelaide except for:

C&ENVENG 1003 Engineering Modelling and Analysis I

CHEM ENG 1002 Engineering Computing I

COMP SCI 1004 Computer Literacy I

ECONMRCR 1000 Information Systems I

ECON 1005 Mathematics for Economists I

ECON 1008 Business Data Analysis I

LBST 1010 Democratic Organising Technology I

MATHS 1002 Quantitative Methods Using Computers

4.2.2 Level II

Courses offered at level II towards a degree program at the University of Adelaide except for:

APP MTH 2005 Financial Computing II.

ECON 2005 Mathematical Economics II

ECON 2006 Economic & Financial Data Analysis II

LBST 2010 Democratic Organising Technology II

LING 2033 Language, Communication and Technology

4.2.3 Level III

Courses offered at level III towards a degree program at the University of Adelaide except for:

APP MTH 3011 Financial Modelling Techniques III

LING 3033 Language, Communication and Technology

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.

Graduate Attributes

Bachelor of Computer Graphics

The following Graduate Attributes have been designed for the Bachelor of Computer Graphics:

- An ability to apply knowledge of computer science fundamentals, including programming, computer and data structures and computer graphics techniques
- An ability to design complex systems involving hardware, software and networks, using software engineering techniques
- An appreciation of current technologies
- An ability to communicate effectively, not only with other computer scientists, but with the community at large on information and technology issues
- Demonstrate effective contribution as members of multi-disciplinary and multi-cultural teams, with the capacity to be leaders or managers as well as effective team members
- An ability, 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.
- Demonstrate an appreciation of professional conduct and ethical issues pertinent to the information technology industry
- Possess the skills in computer graphics required to operate as an effective part of a team working in one of the application areas of computer graphics.



Bachelor of Computer Science

Bachelor of Computer Science (Software Engineering)

1 General

- 1.1 There shall be a degree of Bachelor of Computer Science in the Faculty of Engineering, Computer and Mathematical Sciences.
- 1.2 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 program

The program of study for the Bachelor degree 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. 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 obtains a conceded pass result 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

Note To students commencing this program in 2008

This program is currently under review, and there may be changes to the structure and the courses offered in this program from 2009. While the courses listed at Level I reflect the courses available in 2008, courses listed at higher levels should be considered as indicative only.

Students commencing study in 2008 will be provided with access to the revised Academic Program Rules for this program as part of their enrolment process. The revised Rules will be available from the following web address:
www.adelaide.edu.au/calendar

4.1 General: the degree of Bachelor of Computer Science, Bachelor of Computer Science (Software Engineering)

- 4.1.1 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.
- 4.1.2 To qualify for the Bachelor degree a candidate shall, subject to 4.1.5 below, present passes in courses from 4.2 to the value of at least 72 units including:
 - (a) at least 24 units for Level I courses
 - (b) at least 18 units for Level II courses
 - (c) at least 24 units for Level III courses
 - (d) at least 44 units for Level II & Level III courses.
- 4.1.3 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
 - (b) At least one of the following at a Level of Pass 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 12 units of Level II Computer Science courses with at least 9 units at the level of Pass or higher. The courses at Pass or higher must include:
COMP SCI 2000 Computer Systems *and*
COMP SCI 2004 Data Structures & Algorithms

- (d) MATHS 3015 Communication Skills III
- (e) At least 18 units of Level III Computer Science courses with at least 12 units at the level of Pass or higher. The courses at Pass or higher must include:
COMP SCI 3006 Software Engineering
& Project.....3

Note (not forming part of the Academic Program Rules)

A graduate who qualifies for the Bachelor of Computer Science or Bachelor of Computer Science (Software Engineering) will be considered to have qualified for a major in Computer Science.

4.1.4 Bachelor of Computer Science (Software Engineering)

- (a) To qualify for the Bachelor degree of Computer Science (Software Engineering), candidates must satisfy all conditions in the Bachelor of Computer Science.
- (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 3013 Event Driven Computing3

4.1.5 A candidate may present for the degree courses passed at the Conceded Pass level 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.

4.1.6 Subject to 4.1.5, students enrolled in an Engineering program offered by the Faculty may qualify for the B.Comp.Sc. by fulfilling the requirements of 4.1.8 (a) of these Academic Program Rules.

Note (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.

4.1.7 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, Statistics and Computer Science before obtaining at least a pass in:

- COMP SCI 1009 Computer Science IB
and either
- MATHS 1008 Mathematics for Information Technology I *or*
- MATHS 1011 Mathematics IA with MATHS 1013 Mathematics IMA *or*
- MATHS 1012 Mathematics IB with MATHS 1011 Mathematics IA.

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.

4.1.8 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 4.1.2 and 4.1.3 above, except that only 6 units of Level-I Computer Science are required. The courses presented must include Level II and Level III courses from 4.2 below to the value of at least 24 units, which have not been presented for any other degree. At least 18 units of the new courses must be at Level III *or*
- (b) presents a range of courses as determined by the Faculty in accordance with any formal articulation programs approved by the Faculty
- (c) subject to any formal articulation programs approved by Faculty, a candidate qualifying for the degree under this clause may not present more than 3 units of courses at a Conceded Pass level.

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 same degree. No candidate may present the same section of a course in more than one course for the degree.

4.1.10 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 4.2 with an aggregate units value of 24 satisfying the requirements of 4.1.3(d) and 4.1.3 (e).

4.1.11 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

4.2 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 every calendar year. The availability of all

courses is conditional upon the availability of staff and facilities.

4.2.1 Level I

Courses offered at level I towards a degree program at the University of Adelaide except for:

C&ENVENG 1012 Engineering Modelling and Analysis IA

CHEM ENG 1008 Engineering Computing

COMP SCI 1004 Computer Literacy I

ECOMMRCE 1000 Information Systems I

ECON 1005 Mathematics for Economists I

ECON 1008 Business Data Analysis I

LBST 1010 Democratic Organising Technology I

MATHS 1002 Quantitative Methods Using Computers .

4.2.2 Level II

Courses offered at level II towards a degree program at the University of Adelaide except for:

APP MTH 2005 Financial Computing II

ECON 2006 Economic & Financial Data Analysis II

ECON 2005 Mathematical Economics II

LBST 2010 Democratic Organising Technology II

LING 2033 Language, Communication and Technology.

4.2.3 Level III

Courses offered at level III towards a degree program at the University of Adelaide except for:

APP MTH 3011 Financial Modelling Techniques III.

LING 3033 Language, Communication and Technology.

4.3 Honours programs

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.

4.3.1 The Honours degree of Bachelor of Computer Science

- 4.3.1.1 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 4011 A/B Honours Applied Mathematics and Computer Science

COMP SCI 4999 A/B Honours Computer Science

PURE MTH 4004 A/B Honours Computer Science and Pure Mathematics.

STATS 4003A/B Honours Statistics and Computer Science.

- 4.3.1.2 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.

- 4.3.1.3 Unless granted permission to spread the work of the Honours program over two years under 4.3.1.2, 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.

- 4.3.1.4 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 4.3.1.5 permits re-enrolment.

- 4.3.1.5 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.

4.4 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.

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.

Graduate Attributes

Bachelor of Computer Science

Bachelor of Computer Science (Software Engineering)

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 Engineering

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- 6.5.19 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 in the first instance, the Faculty of Engineering, Maths and Computer Science and, if necessary, 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.

4.3 Except with the 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 Engineering will be required to complete courses from section 6 of these Academic Program Rules with an aggregate units value of 36, including Level III courses with an aggregate units value of at least 6, and Level IV courses with an aggregate units value of at least 18.

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.

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 no course may be presented at the conceded pass level with a unit value greater than 3 units
- b for any single Bachelor of Engineering program no more than 10% of the courses presented may be at the conceded pass level with a limit of 9 units in total

- c for all double/combined programs no more than 10% of the courses presented may be at the conceded pass level with a limit of 12 units in total. All rules pertaining to the presentation of conceded passes within the individual programs must also be complied with
 - d articulating students and students with credit transfer may present 10% of their units under-taken at Adelaide at the conceded pass level and this number will be rounded up to a multiple of 3 and will not exceed 9 units in total.
- (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) 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.
- h Computational Engineering
 - i Computer Systems Engineering
 - j Electrical & Electronic Engineering
 - k Mechanical Engineering
 - l Mechatronic Engineering
 - m Mining Engineering
 - n Petroleum Engineering
 - o Pharmaceutical Engineering
 - p Software Engineering
 - q Sports Engineering
 - r Sustainable Energy Engineering - with the option of specialising in one of:
 - Chemical
 - Electrical
 - Mechanical
 - s 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 Qualification requirements

Note To students commencing this program in 2008

These programs are currently under review, and there may be changes to the structure and the courses offered in this program from 2009. While the courses listed at Level I reflect the courses available in 2008, courses listed at higher levels should be considered as indicative only.

Students commencing study in 2008 will be provided with access to the revised Academic Program Rules for this program as part of their enrolment process. The revised Rules will be available from the following web address: www.adelaide.edu.au/calendar

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 Architectural Engineering
 - c Automotive Engineering
 - d Avionics & Electronic Systems Engineering
 - e Chemical Engineering - with the option of specialising in one of:
 - Energy and Environment
 - Food, Wine and Biomolecular or Process and Product Engineering
 - f Civil & Environmental Engineering
 - g Civil & Structural Engineering

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 Head of School.

The academic progress of any candidate may be reviewed in certain circumstances. Details are available from the Faculty Student Office.

Note: A Pass in MATHS 1012 Mathematics IB is required. With the approval of the Dean or nominee, students may be permitted to enrol concurrently in Mathematics IB and Level II Applied Mathematics courses.

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 or nominee, 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, Automotive, 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 and double 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

Note To students commencing this program in 2008

These programs are currently under review, and there may be changes to the structure and the courses offered in this program from 2009. While the courses listed at Level I reflect the courses available in 2008, courses listed at higher levels should be considered as indicative only.

Students commencing study in 2008 will be provided with access to the revised Academic Program Rules for this program as part of their enrolment process. The revised Rules will be available from the following web address: www.adelaide.edu.au/calendar

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 6.5.5 – 6.5.19 of these Academic Program Rules.

6.4.2 Bachelor of Engineering and Bachelor of Science - B.E./B.Sc.

Note To students commencing this program in 2008

This program is currently under review, and there may be changes to the structure and the courses offered in this program from 2009. While the courses listed at Level I reflect the courses available in 2008, courses listed at higher levels should be considered as indicative only.

Students commencing study in 2008 will be provided with access to the revised Academic Program Rules for this program as part of their enrolment process. The revised Rules will be available from the following web address: www.adelaide.edu.au/calendar

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.
B.E. (Mining)/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 (viii) below, together with the Engineering and Science components described in (viii) to (xi).

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
<i>and</i>	
CHEM 1200 Chemistry IB	3
PHYSICS 1100 Physics IA	3
<i>and</i>	
PHYSICS 1200 Physics IB	3

either

MATHS 1011 Mathematics IA.....3
MATHS 1012 Mathematics IB.....3

or

MATHS 1013 Mathematics IMA*.....3
MATHS 1011 Mathematics IA*.....3

Engineering courses to the value of 6 units as follows:

C&ENVENG 1010 Engineering Mechanics
- Statics.....3
MECH ENG 1007 Engineering Mechanics
- Dynamics.....3

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

BIOLOGY 1101 Biology I:
Molecules, Genes and Cells.....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 1103 Earth Systems.....3

and either

MATHS 1011 Mathematics IA.....3

MATHS 1012 Mathematics IB.....3

or

MATHS 1013 Mathematics IMA*.....3

MATHS 1011 Mathematics IA*.....3

CHEM ENG 1007 Process Engineering I.....3

CHEM ENG 1010 Professional Practice I.....3

v Civil & 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

BIOLOGY 1101 Biology I:
Molecules, Genes and Cells.....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 1103 Earth Systems.....3

and either

MATHS 1011 Mathematics IA.....3

MATHS 1012 Mathematics IB.....3

or

MATHS 1013 Mathematics IMA*.....3

MATHS 1011 Mathematics IA*.....3

Engineering courses to the value of 6 units as follows:

C&ENVENG 1010 Engineering Mechanics
- Statics.....3

C&ENVENG 1012 Engineering Modelling
& Analysis IA.....3

vi Civil & 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

BIOLOGY 1101 Biology I:
Molecules, Genes and Cells.....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 1103 Earth Systems.....3

and either

MATHS 1011 Mathematics IA.....3

MATHS 1012 Mathematics IB.....3

or

MATHS 1013 Mathematics IMA*.....3

MATHS 1011 Mathematics IA*.....3

Engineering courses to the value of 6 units as follows:

C&ENVENG 1010 Engineering Mechanics - Statics.....3

C&ENVENG 1012 Engineering Modelling & Analysis IA.....3

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 IA3

and

CHEM 1200 Chemistry IB3

PHYSICS 1100 Physics IA3

and

PHYSICS 1200 Physics IB3

MATHS 1011 Mathematics IA.....3

MATHS 1012 Mathematics IB.....3

or

MATHS 1013 Mathematics IMA*3

MATHS 1011 Mathematics IA* 3

Engineering courses to the value of 6 units as follows:

C&ENVENG 1010 Engineering Mechanics - Statics.....3

MECH ENG 1006 Design Graphics and Communication M.....3

** Students who have not taken SACE Stage 2 Specialist Maths will be required to enrol in Mathematics IMA followed by Mathematics 1A and MATHS 1012 Mathematics 1B. It is strongly recommended that students should enrol in Mathematics 1B in summer semester 2007 to complete the requirements of Level 1. The satisfactory completion of Mathematics 1MA is in addition to the normal requirements of the B.E. components but a requirement for students who do not have SACE Stage 2 Specialist Maths. Enrolment in summer will enable students to complete the program in the minimum amount of time. Timetabling is an issue, because students undertaking Level 1 Maths in second year may not be able to undertake second year Maths courses or, if they enrol in level 2 courses concurrently they will be over-loaded and face possible timetable clashes. The timetabling of this program requires students to undertake Maths IB over Summer.*

viii Mining Engineering

The following shall be the courses of study at Level 1:

Sciences courses to the value of 18 units as follows:

GEOLOGY 1103 Earth Systems3

and

GEOLOGY 1100 Earth Interior I.....3

MATHS 1011 Mathematics 1A*3

and

MATHS 1012 Mathematics 1B*3

or

MATHS 1013 Mathematics 1MA*3

and

MATHS 1011 Mathematics 1A*3

PHYSICS 1100 Physics 1A3

and

PHYSICS 1200 Physics 1B3

Engineering courses to the value of 6 units as follows:

C&ENVENG 1010 Engineering Mechanics - Statics.....3

C&ENVENG 1011 Introduction to Mining Engineering IA.....3

** Students who have undertaken SACE Stage 2 Specialist Maths will be required to enrol in Mathematics 1A followed by Mathematics 1B.*

Students who have not taken SACE Stage 2 Specialist Maths will be required to enrol in Mathematics IMA followed by Mathematics 1A and MATHS 1012 Mathematics 1B. It is strongly recommended that students should enrol in Mathematics 1B in summer semester 2007 to complete the requirements of Level 1. The satisfactory completion of Mathematics 1MA is in addition to the normal requirements of the B.E. components but a requirement for students who do not have SACE Stage 2 Specialist Maths. Enrolment in summer will enable students to complete the program in the minimum amount of time. Timetabling is an issue, because students undertaking Level 1 Maths in second year may not be able to undertake second year Maths courses or, if they enrol in level 2 courses concurrently they will be over-loaded and face possible timetable clashes. The timetabling of this program requires students to undertake Maths IB over summer.

ix 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 6.5.5, 6.5.7, 6.5.11 & 6.5.13 of these Academic Program Rules.

x Students required to take MATHS 1013/1011 Mathematics IMA/IA at Level I will be required to complete satisfactorily MATHS 1012 Mathematics IB in addition to the normal requirements of the B.E. plan.

xi **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, and leading towards a major
 - (c) Level III courses to the value of not less than 24 units that must lead to a major
 - (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.
- xii 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.
- xiii 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 Bachelor of Engineering (Electrical & 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 Mathematics IM A and MATHS 1011 Mathematics IA in lieu of MATHS 1011/1012 Mathematics I A/B. Such students must also take MATHS 1012 Mathematics IB. 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 Maths will be required to take MATHS 1013 Mathematics IM A and MATHS 1011 Mathematics IA in lieu of MATHS 1011/1012 Mathematics I A/B. Such students must also complete MATHS 1012 Mathematics 1B. The satisfactory completion of Mathematics 1B is in addition to the normal requirements of the B.E.
- 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 (Geology and Geophysics)

- 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:

Bachelor of Engineering (Petroleum) and Bachelor of Science (Geology and Geophysics)

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 Maths will be required to take MATHS 1013 Mathematics IM A and MATHS 1011 Mathematics IA in lieu of MATHS 1011/1012 Mathematics I A/B. Such students must also complete MATHS 1012 Mathematics 1B. The satisfactory completion of Mathematics 1B is in addition to the normal requirements of the B.E .
- 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.

Note To students commencing this program in 2008

This program is currently under review, and there may be changes to the structure and the courses offered in this program from 2009. While the courses listed at Level I reflect the courses available in 2008, courses listed at higher levels should be considered as indicative only.

Students commencing study in 2008 will be provided with access to the revised Academic Program Rules for this program as part of their enrolment process. The revised Rules will be available from the following web address:
www.adelaide.edu.au/calendar

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.(Automotive)/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.(Mining)/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 Mathematics IM A and MATHS 1011 Mathematics IA in lieu of MATHS 1011/1012 Mathematics I A/B. Such students must also complete MATHS 1012 Mathematics 1B. The satisfactory completion of Mathematics 1B is in addition to the normal requirements of the B.E .

- 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 the following criterium:
 - Level II and III Mathematical and Computer Sciences courses as listed in 4.2.2.1 and 4.2.3.1 for the degree of Bachelor of Mathematical and Computer Sciences up to the value of 24 units*, which must include 20 units of Level 3 courses.

Note (not forming part of the Academic Program Rules)

- * The exact number of units required will depend on which Mathematical and Computer Sciences courses are undertaken 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 Faculty 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 6.5.9 Computer Systems Engineering, and 6.5.10 Electrical and Electronic Engineering.
- ii Students enrolled in the Automotive, Chemical, Civil and Environmental Civil and Structural, Mechanical, Mechatronic and Mining 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.

Note To students commencing this program in 2008

This program is currently under review, and there may be changes to the structure and the courses offered in this program from 2009. While the courses listed at Level I reflect the courses available in 2008, courses listed at higher levels should be considered as indicative only.

Students commencing study in 2008 will be provided with access to the revised Academic Program Rules for this program as part of their enrolment process. The revised Rules will be available from the following web address:
www.adelaide.edu.au/calendar

- i There is a series of programs administered by the Faculty of Engineering, Computer and Mathematical Sciences and leading to the combined award of Bachelor of Engineering and Bachelor of Arts. The combined award is available in Chemical, Civil and Environmental, Civil and Structural, Electrical and Electronic, Computer Systems, Mechanical, Mechatronic and Telecommunications 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 Mathematics IM A and MATHS 1011 Mathematics IA in lieu of MATHS 1011/1012 Mathematics I A/B. Such students must also complete MATHS 1012 Mathematics 1B. The satisfactory completion of Mathematics 1B is in addition to the normal requirements of the B.E.

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 (two semester courses)

12 units at Level III (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.

Note To students commencing this program in 2008

This program is currently under review, and there may be changes to the structure and the courses offered in this program from 2009. While the courses listed at Level I reflect the courses available in 2008, courses listed at higher levels should be considered as indicative only.

Students commencing study in 2008 will be provided with access to the revised Academic Program Rules for this program as part of their enrolment process. The revised Rules will be available from the following web address:

www.adelaide.edu.au/calendar

- 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.(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.(Telecomm.)/B.Ec.
- ii Students enrolled in one of these programs are required to complete satisfactorily the courses specified in the Notes under Sections 6.5.5, 6.5.7, 6.5.9, 6.5.11 & 6.5.19 of these Academic Program Rules.
- iii Students who have not taken SACE Stage 2 Specialist Maths will be required to take MATHS 1013 Mathematics IM A and MATHS 1011 Mathematics IA in lieu of MATHS 1011/1012 Mathematics I A/B. Such students must also complete MATHS 1012 Mathematics 1B. The satisfactory completion of Mathematics 1B is in addition to the normal requirements of the B.E.
- 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.

Note To students commencing this program in 2008

This program is currently under review, and there may be changes to the structure and the courses offered in this program from 2009. While the courses listed at Level I reflect the courses available in 2008, courses listed at higher levels should be considered as indicative only.

Students commencing study in 2008 will be provided with access to the revised Academic Program Rules for this program as part of their enrolment process. The revised Rules will be available from the following web address:
www.adelaide.edu.au/calendar

- 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 6.5.5 - 6.5.7, 6.5.9, 6.5.11 & 6.5.19 of these Academic Program Rules.
- iii Students who have not taken SACE Stage 2 Specialist Maths will be required to take MATHS 1013 Mathematics IM A and MATHS 1011 Mathematics IA in lieu of MATHS 1011/1012 Mathematics I A/B. Such students must also complete MATHS 1012 Mathematics 1B. The satisfactory completion of Mathematics 1B is in addition to the normal requirements of the B.E.
- 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

Note To students commencing this program in 2008

This program is currently under review, and there may be changes to the structure and the courses offered in this program from 2009. While the courses listed at Level I reflect the courses available in 2008, courses listed at higher levels should be considered as indicative only.

Students commencing study in 2008 will be provided with access to the revised Academic Program Rules for this program as part of their enrolment process. The revised Rules will be available from the following web address:
www.adelaide.edu.au/calendar

The following options are available:

- B.E.(Civil and Structural)/B.E.(Civil & Environmental)
- B.E.(Petroleum)/B.E.(Chemical)
- B.E.(Petroleum)/B.E.(Civil and Environmental)
- B.E.(Petroleum)/B.E.(Civil and Structural)
- 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 6.5.7 or 6.5.14 of these Academic Program Rules.

- ii Students who have not taken SACE Stage 2 Specialist Maths will be required to take MATHS 1013 Mathematics IM A and MATHS 1011 Mathematics IA in lieu of MATHS 1011/1012 Mathematics I A/B. Such students must also complete MATHS 1012 Mathematics 1B. The satisfactory completion of Mathematics 1B is in addition to the normal requirements of the B.E.
- 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

Note To students commencing this program in 2008

This program is currently under review, and there may be changes to the structure and the courses offered in this program from 2009. While the courses listed at Level I reflect the courses available in 2008, courses listed at higher levels should be considered as indicative only.

Students commencing study in 2008 will be provided with access to the revised Academic Program Rules for this program as part of their enrolment process. The revised Rules will be available from the following web address: www.adelaide.edu.au/calendar

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 1010 Engineering Mechanics - Statics	3
CHEM ENG 1008 Engineering Computing.....	3
CHEM ENG 1009 Materials I.....	3
ELEC ENG 1009 Electrical & Electronic Engineering IA	3
MATHS 1012 Mathematics IB	3
MECH ENG 1006 Design Graphics & Communication M.....	3
MECH ENG 1007 Engineering Mechanics - Dynamics	3

Level II

APP MTH 2000 Differential Equations & Fourier Series	2
APP MTH 2002 Vector Analysis & Complex Analysis	2
APP MTH 2009 Numerical Analysis & 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

ENG 3002 Engineering Communication ESL*	2
MECH ENG 3016 Aeronautical Engineering I	2
MECH ENG 3017 Sustainability and the Environment.....	2
MECH ENG 3020 Heat Transfer	2
MECH ENG 3025 Space Vehicle Design.....	2
MECH ENG 3026 Aerospace Materials & Structures	3
MECH ENG 3027 Engineering Systems 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 II4	

* 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 & Guidance	2
MECH ENG 4035 A/B Aerospace Honours Project Level IV #	8
or	
MECH ENG 4051 A/B Aerospace Design Project Level IV #	8
MECH ENG 4036 Aerospace Propulsion I	2
MECH ENG 4038 Engineering Management & Professional Practice	2
MECH ENG 4040 High-Speed Aerodynamics.....	2
MECH ENG 4062 Aircraft Design.....	2
Elective courses to the value of at least 6 units...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 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	CHEM 1200 Chemistry IB	3
APP MTH 4007 Computational Fluid Dynamics (Engineering) **	2	CHEM ENG 1008 Engineering Computing	3
APP MTH 4043 Transform Methods and Signal Processing **	2	CHEM ENG 1009 Materials I	3
MECH ENG 4002 Combustion Technology and Emissions Control	2	MECH ENG 1007 Engineering Mechanics - Dynamics	3
MECH ENG 4003 Fracture Mechanics	2	PHYSICS 1100 Physics IA	3
MECH ENG 4004 Engineering Acoustics	2	PHYSICS 1200 Physics IB	3
MECH ENG 4011 Advanced Automatic Control	2	<i>either</i>	
MECH ENG 4013 Air Conditioning	2	MATHS 1011 Mathematics IA	3
MECH ENG 4020 Advanced Vibrations	2	MATHS 1012 Mathematics IB	3
MECH ENG 4023 Advanced Topics in Fluid Mechanics	2	<i>or</i>	
MECH ENG 4024 Materials Selection & Failure Analysis	2	MATHS 1013 Mathematics IMA*	3
MECH ENG 4025 Topics in Welded Structures	2	MATHS 1011 Mathematics IA*	3
MECH ENG 4026 Environmental and Architectural Acoustics	2	<i>* Students who have not taken SACE Stage 2 Specialist Maths will be required to take MATHS 1013 Mathematics IM A and MATHS 1011 Mathematics IA in lieu of MATHS 1011/1012 Mathematics I A/B. Such students must also complete MATHS 1012 Mathematics 1B. The satisfactory completion of Mathematics 1B is in addition to the normal requirements of the B.E.</i>	
MECH ENG 4027 Robotics M	2	Second Year (24 units)	
MECH ENG 4033 Mechanical Signature Analysis	2	APP MTH 2000 Differential Equations & Fourier Series	2
MECH ENG 4037 Aerospace Propulsion II	2	APP MTH 2002 Vector Analysis & Complex Analysis	2
MECH ENG 4039 Finance for Engineers	2	APP MTH 2009 Numerical Analysis & Probability & Statistics	2
MECH ENG 4046 CFD for Engineering Applications	2	MECH ENG 1006 Design Graphics & Communication M	3
MECH ENG 4055 Stresses in Plates & Shells	2	MECH ENG 2002 Stress Analysis and Design	3
MECH ENG 4057 Biomechanical Engineering	2	MECH ENG 2018 Design Practice	4
MECH ENG 4059 Finite Element Analysis of Structures	2	MECH ENG 2019 Dynamics and Control I	3
MECH ENG 4061 Corrosion: Principles & Prevention	2	MECH ENG 2020 Materials and Manufacturing	3
<i>* Not all electives are offered each year.</i>		MECH ENG 2021 Thermo-Fluids I	3
<i>** Not offered by the School of Mechanical Engineering</i>		Third Year (26 units)	
<i># Students accepted into the Honours stream will take Aerospace Honours Project Level IV and other students will take Aerospace Design Project Level IV.</i>		MECH ENG 3025 Space Vehicle Design	2
		MECH ENG 3026 Aerospace Materials and Structures	3
		MECH ENG 3027 Engineering Systems Design and Communication	3
		MECH ENG 3028 Dynamics and Control 2	3
		MECH ENG 3031 Thermo-Fluids II	3
		PHYSICS 2010 Space Science & Astrophysics II	4
		PHYSICS 2100 Physics IIA	4
		PHYSICS 2200 Physics IIB	4
		Fourth Year (26 units)	
		MECH ENG 2011 Mechatronics IM	2
		MECH ENG 3016 Aeronautical Engineering	2
		MECH ENG 3017 Sustainability and the Environment	2
		MECH ENG 3020 Heat Transfer	2

Notes

- 1 **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.
- 2 **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 1010 Engineering Mechanics - Statics 3
CHEM 1100 Chemistry IA..... 3

Level III Physics/Science courses (at least 18 units*):	
PHYSICS 3002 Experimental Physics III.....	3
PHYSICS 3004 Quantum Mechanics IIIA.....	3
PHYSICS 3006 Advanced Dynamics & Relativity ..	3
PHYSICS 3009 Statistical Mechanics III.....	2
and electives chosen from the following:	
APP MTH 3002 Fluid Mechanics III.....	3
APP MTH 3006 Industrial Mathematics III.....	3
APP MTH 3013 Differential Equations III.....	3
APP MTH 4003 Aerodynamics	2
PHYSICS 3000 Computation Physics III.....	2
PHYSICS 3001 Electromagnetism and Optics.....	3
PHYSICS 3013 Astrophysics III	2
PHYSICS 3014 Atmospheric & Environmental Physics III.....	2
PHYSICS 3022 Applied Quantum Mechanics IIIB..	2
Fifth Year (24 units)	
MECH ENG 4034 Aerospace Navigation & Guidance.....	2
<i>either</i>	
MECH ENG 4035 A/B Aerospace Honours Project Level IV #	8
<i>or</i>	
MECH ENG 4051 A/B Aerospace Design Project Level IV.....	8
MECH ENG 4036 Aerospace Propulsion I	2
MECH ENG 4038 Engineering Management and Professional Practice	2
MECH ENG 4040 High-Speed Aerodynamics.....	2
MECH ENG 4062 Aircraft Design.....	2
Level III Science elective courses to the value of 6 units	6

Students accepted into the Honours stream will take Aerospace Honours Project Level IV and other students will take Aerospace Design Project Level IV.

* Students are required to present 24 Level III Science units over Years 4 and 5.

The Science courses above give students a double major in Physics and Theoretical Physics. For other majors in Science consult Clause 5.4 of the Science Academic Program Rules.

6.5.2 Architectural 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 1010 Engineering Mechanics - Statics	3
C&ENVENG 1012 Engineering Modelling and Analysis I A.....	3

DEST 1027 Human Environments I.....	6
DEST 1029 Construction and Design: Theories and Practice	6
MATHS 1011 Mathematics IA.....	3
MATHS 1012 Mathematics IB	3

Level II

APP MTH 2010 Differential Equations & Statistical Methods (Civil).....	3
C&ENVENG 2025 Strength of Materials IIA	3
DESST 1030 History of Settlements I.....	3
MECH ENG 2021 Thermo-Fluids I.....	3
Courses to the value of 12 units in the areas of:	
C&ENVENG Engineering Modelling & Analysis	
C&ENVENG Geotechnical Engineering	
C&ENVENG Structural Engineering Design	
DESST Design for Sustainable Buildings	

Level III

C&ENVENG 3001 Structural Mechanics IIIA	3
C&ENVENG 3005 Structural Design III (Concrete)	3
C&ENVENG 3007 Structural Design III (Steel)	3
ENG 3002 Engineering Communication ESL*	2
Courses to the value of 15 units in the areas of:	
C&ENVENG Engineering Management & Planning	
DESST Design for Sustainable Buildings	
DESST History of Architecture	
MECH ENG Heat transfer and Thermodynamics	
MECH ENG Heating, Ventilation & Airconditioning	

* Available only to students whose native language is not English; may be presented in lieu of C&ENVENG course in Engineering Management and Planning.

Level IV

C&ENVENG 3012 Geotechnical Engineering Design III.....	3
C&ENVENG 4034 Engineering Management IV ...	3
Civil & Environmental Engineering courses to the value of 9 units in the areas of:	
Architectural Engineering Research Project	
Building Services	
<i>and</i>	
Specialisation courses to the value of 12 units* .	12

*Specialisation courses may include up to 3 units of Level II or III courses offered by the School of Mathematics

The specialisation 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 4068 Computer Methods of Structural Analysis and Design.....	3
C&ENVENG 4099 Structural Response to Blast Loading	3

C&ENVENG 4069 Advanced Reinforced Concrete 3

Group II: Geotechnical Engineering

C&ENVENG 4018 Expansive Soils and Footings Design..... 3

Group III: Water Engineering

and

a Civil & Environmental Engineering course to the value of 3 units in the area of Engineering Hydrology..... 3

Group IV: Management

C&ENVENG 4085 Traffic Engineering & Design 3

Group V: Environmental Engineering

C&ENVENG 4091 Waste Management Analysis & Design..... 3

Alternatively students may substitute up to 3 units of Level II or III courses offered by the School of Mathematics

Students who are not selected for Honours will be required to complete two additional final year specialisation courses instead of the Research Project.

Students may also, with the approval of the Head of School, replace one or more specialisation courses with appropriate courses offered by other schools within the University of Adelaide.

6.5.3 Automotive Engineering

Note To students commencing this program in 2008

This program is currently under review, and there may be changes to the structure and the courses offered in this program from 2009. While the courses listed at Level I reflect the courses available in 2008, courses listed at higher levels should be considered as indicative only.

Students commencing study in 2008 will be provided with access to the revised Academic Program Rules for this program as part of their enrolment process. The revised Rules will be available from the following web address: www.adelaide.edu.au/calendar

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 1010 Engineering Mechanics - Statics 3

CHEM ENG 1008 Engineering Computing..... 3

CHEM ENG 1009 Materials I..... 3

ELEC ENG 1009 Electrical & Electronic Engineering IA 3

MATHS 1011 Mathematics IA..... 3

MATHS 1012 Mathematics IB..... 3

MECH ENG 1006 Design Graphics and Communication M..... 3

MECH ENG 1007 Engineering Mechanics - Dynamics 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 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

ENG 3002 Engineering Communication ESL * 2

MECH ENG 3017 Sustainability & the Environment 2

MECH ENG 3020 Heat Transfer 2

MECH ENG 3027 Engineering Systems Design and Communication..... 3

MECH ENG 3028 Dynamics and Control II..... 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

** 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 4039 Finance for Engineers..... 2

MECH ENG 4043 Automotive NVH & Aerodynamics 2

MECH ENG 4044 Automotive Safety..... 2

MECH ENG 4045 Advanced Manufacturing and Quality Systems..... 2

MECH ENG 4047 A/B Automotive Honours Project Level IV # 8

MECH ENG 4048 A/B Automotive Design Project Level IV # 8

Elective courses to the value of at least 4 units... 4

Electives*

APP MTH 4043 Transform Methods and Signal Processing **	2
MECH ENG 4002 Combustion Technology and Emission Control	2
MECH ENG 4003 Fracture Mechanics	2
MECH ENG 4004 Engineering Acoustics	2
MECH ENG 4007 Computational Fluid Dynamics (Engineering) **	2
MECH ENG 4013 Airconditioning	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 4042 Fire Engineering	2
MECH ENG 4046 CFD for Engineering Applications	2
MECH ENG 4055 Stresses in Plates and Shells	2
MECH ENG 4057 Biomechanical Engineering	2
MECH ENG 4059 Finite Element Analysis of Structures	2
MECH ENG 4061 Corrosion: Principles & Prevention	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.

Notes

- 1 Direct Entry B.E.(Automotive)/B.Ma.& Comp.Sc.) Refer to Academic Program Rule 6.4.3 for the requirements of this program.
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

6.5.4 Avionics and Electrical Systems 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:

Level I

COMP SCI 1008 Computer Science IA	3
COMP SCI 1009 Computer Science IB	3
ELEC ENG 1009 Electrical and Electronic Engineering IA	3

ELEC ENG 1010 Electrical & Electronic Engineering IB	3
MATHS 1011 Mathematics IA	3
MATHS 1012 Mathematics IB	3
MECH ENG 1007 Engineering Mechanics - Dynamics	3
PHYSICS 1100 Physics IA	3

Level II

COMP SCI 2000 Computer Systems	3
COMP SCI 2004 Data Structures & Algorithms	3
ELEC ENG 2007 Signals and Systems	3
ELEC ENG 2008 Electronics II	3
ELEC ENG 2009 Engineering Electromagnetics	3

Courses to the value of 9 units in the areas of:
APP MATH Differential Equations, Probability and Statistics
APP MATH Vector Analysis, Complex Analysis and Laplace Transforms
ELEC ENG Circuit Analysis

Level III

COMP SCI 3006 Software Engineering & Project	3
ELEC ENG 3016 Control	3
ELEC ENG 3018 RF Engineering	3
MECH ENG 3016 Aeronautical Engineering	3

ENG 3002 Engineering Communication ESL*2
Electrical & Electronic Engineering courses to the value of 12 units in the areas of:
Complex Systems
Digital Systems
Practical Electronics Design
Signal Processing

* 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 4036 A/B Design Project#	6
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or

ELEC ENG 4039 A/B Honours Project#	6
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ELEC ENG Financial Management for Engineers
Electrical & Electronic Engineering courses to the value of 9 units in the areas of:
Avionic Sensors and Systems
Management & Professional Practice for Engineers
Systems Engineering

and

Elective courses to the value of at least 6 units ..6

Engineering electives*

APP MTH 3016 Telecommunications Systems Modelling III **	3
COMP SCI 3001 Computer Networks & Applications	3
COMP SCI 3004 Operating Systems	3
COMP SCI 3005 Computer Architecture	3
ELEC ENG 3022 Real Time Systems IV	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.

6.5.5 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:

6.5.5.1 Chemical Engineering

Note To students commencing this program in 2008

This program is currently under review, and there may be changes to the structure and the courses offered in this program from 2009. While the courses listed at Level I reflect the courses available in 2008, courses listed at higher levels should be considered as indicative only.

Students commencing study in 2008 will be provided with access to the revised Academic Program Rules for this program as part of their enrolment process. The revised Rules will be available from the following web address: www.adelaide.edu.au/calendar

Note: Combined/double degree students must undertake this program.

Level I

CHEM 1100 Chemistry IA.....	3
CHEM 1200 Chemistry IB.....	3
CHEM ENG 1007 Process Engineering I.....	3
CHEM ENG 1008 Engineering Computing.....	3
CHEM ENG 1010 Professional Practice I	3
<i>either</i>	
ENV BIOL 1002 Ecological Issues.....	3
<i>or</i>	
BIOL 1202 Biology 1: Organisms	3
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	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 & 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 ENG 3002 Engineering communication ESL in lieu of Essay and Seminar.

Level III

CHEM ENG 3001 Materials III(CH).....	2
CHEM ENG 3003 A/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
CHEM ENG 4024 Environmental Engineering	2

Level IV

CHEM ENG 4003 Process Dynamics & 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 & Management	2
CHEM ENG 4025 Chemical Engineering Projects IV.....	2
CHEM ENG 4026 Chemical Engineering Research Project (H) #	2
<i>or</i>	
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 Chemical Engineering, courses offered by other schools within the University may be included in the selection of electives.)

APP MTH 4007 Computational Fluid Dynamics (Engineering).....	2
CHEM ENG 4001 Special Studies in Chemical Engineering.....	2

CHEM ENG 4002 A/B Chemical Engineering Research Elective II**	4
CHEM ENG 4004 Minerals Processing	2
CHEM ENG 4008 Biochemical Engineering	2
CHEM ENG 4020 A/B Chemical Engineering Research Elective	2
CHEM ENG 4021 Combustion Processes	2
CHEM ENG 4024 Environmental Engineering	2

* not all courses are offered each year. - Information on course availability provided at time of enrolment.

** Approval is needed from the Head of the School of Chemical Engineering to enrol in this course.

Students accepted into the Honours stream will take Chemical Engineering Research Project (H) and other students will take Chemical Engineering Research Project (N).

6.5.5.2 Chemical Engineering (Process & Product Engineering)

Note To students commencing this program in 2008

This program is currently under review, and there may be changes to the structure and the courses offered in this program from 2009. While the courses listed at Level I reflect the courses available in 2008, courses listed at higher levels should be considered as indicative only.

Students commencing study in 2008 will be provided with access to the revised Academic Program Rules for this program as part of their enrolment process. The revised Rules will be available from the following web address:
www.adelaide.edu.au/calendar

Level I

CHEM 1100 Chemistry IA	3
CHEM 1200 Chemistry IB	3
CHEM ENG 1007 Process Engineering I	3
CHEM ENG 1008 Engineering Computing	3
CHEM ENG 1010 Professional Practice I	3

either

ENV BIOL 1002 Ecological Issues	3
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or

BIOL 1202 Biology 1: Organisms	3
MATHS 1011 Mathematics IA	3
MATHS 1012 Mathematics IB	3

Level II

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 & 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 ENG 3002 Engineering Communication ESL in lieu of Essay and Seminar.

Level III

CHEM ENG 3001 Materials III(CH)	2
CHEM ENG 3003 A/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

CHEM ENG 4003 Process Dynamics & 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*	4

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 4002 A/B Chemical Engineering Research Elective II *	4
CHEM ENG 4004 Minerals Processing	2

CHEM ENG 4008 Biochemical Engineering.....	2
CHEM ENG 4020 A/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.

6.5.5.3 Chemical Engineering (Energy & Environment)

Note To students commencing this program in 2008

This program is currently under review, and there may be changes to the structure and the courses offered in this program from 2009. While the courses listed at Level I reflect the courses available in 2008, courses listed at higher levels should be considered as indicative only.

Students commencing study in 2008 will be provided with access to the revised Academic Program Rules for this program as part of their enrolment process. The revised Rules will be available from the following web address:
www.adelaide.edu.au/calendar

Level I

CHEM 1100 Chemistry IA.....	3
CHEM 1200 Chemistry IB.....	3
CHEM ENG 1007 Process Engineering I.....	3
CHEM ENG 1008 Engineering Computing.....	3
CHEM ENG 1010 Professional Practice I.....	3
ENV BIOL 1002 Ecological Issues.....	3
MATHS 1011 Mathematics IA.....	3
MATHS 1012 Mathematics IB.....	3

Level II

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 & 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 30042 Engineering Communication ESL in lieu of Environmental Essay and Seminar.

Level III

C&ENVENG 2035 Water Engineering II S2.....	2
CHEM ENG 3001 Materials III(CH).....	2
CHEM ENG 3003 A/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

CHEM ENG 4028 Advanced Environmental Design and Cleaner Production.....	2
CHEM ENG 4010 Advanced Separation Techniques & Thermal Processes.....	2
CHEM ENG 4025 Chemical Engineering Projects IV #	2
CHEM ENG 4021 Combustion Processes	2
CHEM ENG 4003 Process Dynamics & 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).....	4
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.)

C&ENVENG 3013 Water Engineering & Design IIIA	2
C&ENVENG 3014 Water Engineering & Design IIIB	2
CHEM ENG 4002 A/B Chemical Engineering Research Elective II **	4
CHEM ENG 4004 Minerals Processing.....	2
CHEM ENG 4008 Biochemical Engineering	2
CHEM ENG 4009 Advanced Chemical CHEM ENG 4020 A/B Chemical Engineering Research Elective	2

** Approval is needed from the Head of the School of Chemical Engineering to enrol in this course.

6.5.5.4 Chemical Engineering (Food, Wine & Biomolecular)

Note To students commencing this program in 2008

This program is currently under review, and there may be changes to the structure and the courses offered in this program from 2009. While the courses listed at Level I reflect the courses available in 2008, courses listed at higher levels should be considered as indicative only.

Students commencing study in 2008 will be provided with access to the revised Academic Program Rules for this program as part of their enrolment process. The revised Rules will be available from the following web address:
www.adelaide.edu.au/calendar

Level I

BIOLOGY 1202 Biology 1: Organisms	3
CHEM 1100 Chemistry IA.....	3
CHEM 1200 Chemistry IB.....	3
CHEM ENG 1007 Process Engineering I.....	3
CHEM ENG 1008 Engineering Computing.....	3
CHEM ENG 1010 Professional Practice I.....	3
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

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 & Process Engineering	2
CHEM ENG 2008 Essay & Seminar (FWB) *	2
MICRO 2002 Microbiology II (Biotechnology)	4
OENOLOGY 2024WT Introductory Winemaking... 4	

*** Students whose native language is not English may present ENG 3002 Engineering Communication ESL in lieu of Essay and Seminar FWB.**

Level III

CHEM ENG 3003 A/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
FOOD SC 1000RG Introduction to Food Technology.....	3
FOOD SC 2105RG Food Preservation & Packaging A.....	4

Level IV

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 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*	4

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 4 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 4002 A/B Chemical Engineering Research Elective II **	4
CHEM ENG 4004 Minerals Processing.....	2
CHEM ENG 4009 Advanced Chemical Engineering.....	2
CHEM ENG 4020 A/B Chemical Engineering Research Elective	2
FOOD SC 2002WT Nutrition II.....	4
FOOD SC 3011RG Food Chemistry.....	3
FOOD SC 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 1007 Law of Torts 2.....	4

LAW 2117 Law of Contract 2.....	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.(Chem) program

Note To students commencing this program in 2008

This program is currently under review, and there may be changes to the structure and the courses offered in this program from 2009. While the courses listed at Level I reflect the courses available in 2008, courses listed at higher levels should be considered as indicative only.

Students commencing study in 2008 will be provided with access to the revised Academic Program Rules for this program as part of their enrolment process. The revised Rules will be available from the following web address:
www.adelaide.edu.au/calendar

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 1007 Process Engineering I.....	3
CHEM ENG 1008 Engineering Computing.....	3
CHEM ENG 1010 Professional Practice I.....	3
MATHS 1011 Mathematics IA.....	3
MATHS 1012 Mathematics IB.....	3
Law course	3

or

* Students who have not taken SACE Stage 2 Specialist Maths will be required to take MATHS 1013 Mathematics IMA and MATHS 1011 Mathematics IA in lieu of MATHS 1011/1012 Mathematics I A/B. Such students must also complete MATHS 1012 Mathematics 1B. The satisfactory completion of Mathematics 1B 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
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 & Process Engineering	2
CHEM ENG 2007 Essay and Seminar (Env.).....	2
STATS 2004 Laplace Transforms and Probability and Statistical Methods.....	2

Third Year (26 units)

CHEM ENG 3001 Materials III (CH).....	2
CHEM ENG 3003 A/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
Fourth Year (22 units)	
CHEM ENG 4003 Process Dynamics & 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
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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)

Note To students commencing this program in 2008

This program is currently under review, and there may be changes to the structure and the courses offered in this program from 2009. While the courses listed at Level I reflect the courses available in 2008, courses listed at higher levels should be considered as indicative only.

Students commencing study in 2008 will be provided with access to the revised Academic Program Rules for this program as part of their enrolment process. The revised Rules will be available from the following web address:
www.adelaide.edu.au/calendar

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	
<i>and</i>		
CHEM 1200 Chemistry IB.....	3	
BIOLOGY 1101 Biology I: Molecules, Genes and Cells.....		3
<i>and either</i>		
BIOLOGY 1202 Biology I: Organisms	3	
<i>or</i>		
BIOLOGY 1201 Biology I: Human Perspectives....	3	
<i>or</i>		
PHYSICS 1100 Physics IA.....	3	
<i>and</i>		
PHYSICS 1200 Physics IB.....	3	
<i>or</i>		
GEOLOGY 1100 Earth's Interior I	3	
<i>and</i>		
GEOLOGY 1103 Earth systems.....	3	
MATHS 1011 Mathematics IA.....	3	
MATHS 1012 Mathematics IB	3	
<i>or</i>		
MATHS 1013 Mathematics IMA *	3	
MATHS 1011 Mathematics IA*	3	
Engineering courses to the value of 6 units as follows:		
CHEM ENG 1007 Process Engineering I.....	3	
CHEM ENG 1010 Professional Practice I	3	
<i>* Students who have not taken SACE Stage 2 Specialist Maths will be required to take MATHS 1013 Mathematics IMA & MATHS 1011 Mathematics IA in lieu of MATHS 1011/1012 Mathematics I A/B. Such students must also complete MATHS 1012 Mathematics 1B. The satisfactory completion of Mathematics 1B is in addition to the normal requirements of the B.E.</i>		
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	
<i>or</i>		
another Level II Science course to the value of 4 units		
CHEM 2200 Chemistry IIB.....	4	
<i>or</i>		
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 & Process Engineering	2
CHEM ENG 3002 Essay and Seminar.....	2
STATS 2004 Laplace Transforms and Probability and Statistical Methods.....	2
<i>** Students enrolled in Chemistry II A/B need not enrol in Chemical Engineering Thermodynamics, but are strongly advised to attend lectures.</i>	

Third Year (24 units)	
CHEM ENG 3001 Materials III (CH).....	2
CHEM ENG 3003 A/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
CHEM ENG 4024 Environmental Engineering	2

Fourth Year (24 units)		
Level III Science courses to the value of 24 units.....		24
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	
<i>or</i>		
CHEM ENG 4027 Chemical Engineering Research Project (N)*	2	
Engineering Elective courses to the value of 4 units from list above		4
<i>* Students accepted into the Honours stream will take Chemical Engineering Research Project (H) and other students will take Chemical Engineering Research Project (N).</i>		

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:
 - 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**

Note To students commencing this program in 2008

This program is currently under review, and there may be changes to the structure and the courses offered in this program from 2009. While the courses listed at Level I reflect the courses available in 2008, courses listed at higher levels should be considered as indicative only.

Students commencing study in 2008 will be provided with access to the revised Academic Program Rules for this program as part of their enrolment process. The revised Rules will be available from the following web address:
www.adelaide.edu.au/calendar

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)

CHEM 1100 Chemistry IA.....	3
CHEM 1200 Chemistry IB.....	3
CHEM ENG 1007 Process Engineering I.....	3
CHEM ENG 1008 Engineering Computing.....	3
CHEM ENG 1010 Professional Practice I.....	3

either

ENV BIOL Ecological Issues.....	3
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or

BIOL 1202 Biology 1: Organisms.....	3
MATHS 1011 Mathematics IA.....	3
MATHS 1012 Mathematics IB.....	3

** Students who have not taken SACE Stage 2 Specialist Maths will be required to take MATHS 1013 Mathematics IM A and MATHS 1011 Mathematics IA in lieu of MATHS 1011/1012 Mathematics I A/B. Such students must also complete MATHS 1012 Mathematics 1B. The satisfactory completion of Mathematics 1B is in addition to the normal requirements of the B.E.*

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 & 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 3003 A/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 & 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 & 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
<i>or</i>	
CHEM ENG 4026 Chemical Engineering Research Project (H) #	2
Plus at least 6 units of Level IV Chemical Engineering electives (listed above).....	6
<i># Students accepted into the Honours stream will take Chemical Engineering Research Project (H) and other students will take Chemical Engineering Research Project (N).</i>	

6 Program of study for the direct entry B.E.(Chem.)/B.Fin. program

Note To students commencing this program in 2008

This program is currently under review, and there may be changes to the structure and the courses offered in this program from 2009. While the courses listed at Level I reflect the courses available in 2008, courses listed at higher levels should be considered as indicative only.

Students commencing study in 2008 will be provided with access to the revised Academic Program Rules for this program as part of their enrolment process. The revised Rules will be available from the following web address: www.adelaide.edu.au/calendar

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)

CHEM 1100 Chemistry IA.....	3
CHEM 1200 Chemistry IB.....	3
CHEM ENG 1007 Process Engineering I.....	3
CHEM ENG 1008 Engineering Computing.....	3
CHEM ENG 1010 Professional Practice I.....	3
<i>either</i>	
ENV BIOL 1002 Ecological Issues.....	3
<i>or</i>	
BIOL 1202 Biology 1: Organisms	3
MATHS 1011 Mathematics IA	3
MATHS 1012 Mathematics IB	3

*** Students who have not taken SACE Stage 2 Specialist Maths will be required to take MATHS 1013 Mathematics IM A and MATHS 1011 Mathematics IA in lieu of MATHS 1011/1012 Mathematics I A/B. Such students must also complete MATHS 1012 Mathematics 1B. The satisfactory completion of Mathematics 1B is in addition to the normal requirements of the B.E.*

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 & 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 & 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 & Probability & Statistical Methods.....	2

Third Year (24 units)

ACCTING 1002 Accounting for Decision Makers I	3
CHEM ENG 3001 Materials III (CH).....	2
CHEM ENG 3003 A/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 & Reactor Design	3
CHEM ENG 3018 Fluid & Particle Mechanics	3
ECON 1009 International Financial Institutions & Markets I.....	3

Fourth Year (24 units)

CHEM ENG 4003 Process Dynamics & 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
<i>or</i>	
CHEM ENG 4027 Chemical Engineering Research Projects (N) #	2
CORPFIN 2006 Business Finance II	4

ECON 2006 Economic and Financial Data Analysis II.....	4	<i>complete MATHS 1012 Mathematics 1B. The satisfactory completion of Mathematics 1B is in addition to the normal requirements of the B.E.</i>	
ECON 2012 Financial Economics II.....	4		
<i># Students accepted into the Honours stream will take Chemical Engineering Research Project (H) and other students will take Chemical Engineering Research Project (N)</i>			
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		
Note	To students commencing this program in 2008		
This program is currently under review, and there may be changes to the structure and the courses offered in this program from 2009. While the courses listed at Level I reflect the courses available in 2008, courses listed at higher levels should be considered as indicative only.			
Students commencing study in 2008 will be provided with access to the revised Academic Program Rules for this program as part of their enrolment process. The revised Rules will be available from the following web address: www.adelaide.edu.au/calendar			
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 (24 units)			
BIOLOGY 1101 Biology I: Molecules, Genes and Cells.....	3		
<i>and</i>			
BIOLOGY 1201 Biology I: Human Perspectives.....	3		
BIOTECH 1000 Introduction to Biotechnology	3		
CHEM 1100 Chemistry IA.....	3		
<i>and</i>			
CHEM 1200 Chemistry IB.....	3		
CHEM ENG 1007 Process Engineering I.....	3		
<i>either</i>			
MATHS 1011 Mathematics IA.....	3		
MATHS 1012 Mathematics IB.....	3		
<i>or</i>			
MATHS 1013 Mathematics IMA*.....	3		
MATHS 1011 Mathematics IA*.....	3		
* Students who have not taken SACE Stage 2 Specialist Maths will be required to take MATHS 1013 Mathematics IM A and MATHS 1011 Mathematics IA in lieu of MATHS 1011/1012 Mathematics I A/B. Such students must also			
		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 1009 Materials I.....	3		
CHEM ENG 2001 Chemical Process Principles II.....	3		
CHEM ENG 2003 Introductory Process Fluid Mechanics	3		
CHEM ENG 2006 Plant & Process Engineering	2		
MICRO 2002 Microbiology II (Biotech)	4		
Third Year (24 units)			
BIOCHEM 2205 Biochemistry IIB.....	4		
CHEM ENG 3001 Materials III (CH).....	2		
CHEM ENG 3003 A/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 & Reactor Design.....	3		
CHEM ENG 3018 Fluid & Particle Mechanics	3		
Fourth Year (24 units)			
BIOCHEM 3000 Molecular and Structural Biology III	6		
BIOCHEM 3001 Cell & Development Biology III ...	6		
BIOTECH 3000 Biotechnology Practice III.....	6		
PHARM 3010 Pharmacology A III.....	6		
Fifth Year (24 units)			
CHEM ENG 4003 Process Dynamics & 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		
<i>or</i>			
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.

6.5.6 Civil and Environmental Engineering

Note To students commencing this program in 2008

This program is currently under review, and there may be changes to the structure and the courses offered in this program from 2009. While the courses listed at Level I reflect the courses available in 2008, courses listed at higher levels should be considered as indicative only.

Students commencing study in 2008 will be provided with access to the revised Academic Program Rules for this program as part of their enrolment process. The revised Rules will be available from the following web address: www.adelaide.edu.au/calendar

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 1008 Engineering Planning and Design IA	3
C&ENVENG 1009 Civil & Environmental Engineering IA	3
C&ENVENG 1010 Engineering Mechanics - Statics	3
C&ENVENG 1012 Engineering Modelling and Analysis IA	3
ENV BIOL 1002 Ecological Issues	3
MATHS 1011 Mathematics IA	3
MATHS 1012 Mathematics IB	3
GEOLOGY 1104 Geology for Engineers.....	3

Level II

APP MTH 2010 Differential Equations and Statistical Methods (Civil)	3
C&ENVENG 2006 Geotechnical Engineering II.....	2
C&ENVENG 2014 Engineering Modelling & 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 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	3
C&ENVENG 3012 Geotechnical Engineering Design III.....	3
C&ENVENG 3013 Water Engineering & Design IIIA	2
C&ENVENG 3014 Water Engineering & Design IIIB	2
C&ENVENG 3067 Environmental Science and Policy.....	2
CHEM ENG 3011 Transport Processes in the Environment.....	2
ECON 3018 Environmental Economics EIII	3
and courses to the value of at least 3 units from the following:	
C&ENVENG 3066 Engineering Communication and Language (ECL) *	3
ENV BIOL 3004 Freshwater Ecology III.....	3
ENV BIOL 3008 Conservation and Restoration....	3
ENV BIOL 3012WT Integrated Catchment Management	3
ENV BIOL 3121 Concepts in Ecology EBIII.....	3
GEOLOGY 3010 Remote Sensing (S).....	3
SOIL&WAT 3004WT Environmental Toxicology & Remediation.....	3
SOIL&WAT 3007WT GIS for Environmental Management	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 4005 A/B Civil & Environmental Research Project #	6
C&ENVENG 4034 Engineering Management IV.....	3
C&ENVENG 4037 Introduction to Environmental Law	3
Elective* courses to the value of 12 units.....	12

The specialisation courses offered by the School in any one year will depend on student interest and staff availability, and will be chosen from the following:

Specialisations *

Group II: Geotechnical Engineering

C&ENVENG 4079 Deep Foundation Engineering & Design.....3

C&ENVENG 4081 Expansive Soils and Footing Design.....3

Group III: Water Engineering

C&ENVENG 4073 Water Distribution Systems and Design.....3

C&ENVENG 4075 Water Resources Optimisation and Modelling.....3

C&ENVENG 4077 Coastal Engineering & Design ...3

C&ENVENG 4097 Analysis of Rivers and Sediment Transport3

C&ENVENG 4098 Water Resources Sustainability and Design3

Group IV: Management Engineering

C&ENVENG 4085 Traffic Engineering & Design3

Group V: Environmental Engineering

C&ENVENG 4087 Environmental Modelling, Management & Design.....3

C&ENVENG 4091 Waste Management Analysis & Design3

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 & Environmental Engineering, replace one or more specialisation 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 undertaking the double program with Mathematical & Computer Science must present 6 units total of Maths courses at Level II or III of their engineering program. These units are made up of APP MTH 2000 Differential Equations & Fourier Series, STATS 2004 LaPlace Transforms and Probability & Statistical Methods and Level III elective Maths courses. This is in addition to the 24 units at Level III required for their Maths Program.

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 Law4

Law 1002 Law of Torts4

Law 1003 Law of Contract4

Law 1004 Law of Crime4

Law 1005 Property Law.....4

LAW 1007 Law of Torts 2.....4

LAW 2117 Law of Contract Law 24

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

Note To students commencing this program in 2008

This program is currently under review, and there may be changes to the structure and the courses offered in this program from 2009. While the courses listed at Level I reflect the courses available in 2008, courses listed at higher levels should be considered as indicative only.

Students commencing study in 2008 will be provided with access to the revised Academic Program Rules for this program as part of their enrolment process. The revised Rules will be available from the following web address:

www.adelaide.edu.au/calendar

First Year (24 units)

C&ENVENG 1010 Engineering Mechanics - Statics3

C&ENVENG 1012 Engineering Modelling and Analysis IA3

ENV BIOL 1002 Ecological Issues3

GEOLOGY 1104 Geology for Engineers.....3

MATHS 1011 Mathematics IA3

MATHS 1012 Mathematics IB3

or

MATHS 1013 Mathematics IMA*3

MATHS 1011 Mathematics IA*3

* Students who have not taken SACE Stage 2 Specialist Maths will be required to take MATHS 1013 Mathematics IM A and MATHS 1011 Mathematics IA in lieu of MATHS 1011/1012 Mathematics I A/B. Such students must also complete MATHS 1012 Mathematics 1B. The satisfactory completion of Mathematics 1B is in addition to the normal requirements of the B.E.

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 ...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 Ecology E.....3

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

* Students should consult the Law School at enrolment for advice on courses offered.

Fourth Year (25 units)	
C&ENVENG 4005 A/B Civil & Environmental Research Project #	6
C&ENVENG 4034 Civil Engineering Management IV	3
Plus 12 units of Engineering Specialisation courses (see 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.

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 degree of B.Sc, candidates are required to complete satisfactorily:

First Year (24 units)	
C&ENVENG 1008 Engineering Planning and Design IA	3
C&ENVENG 1009 Civil & Environmental Engineering IA	3
C&ENVENG 1010 Engineering Mechanics - Statics	3
C&ENVENG 1012 Engineering Modelling and Analysis IA	3
<i>either</i> #	
CHEM 1100 Chemistry IA.....	3
CHEM 1200 Chemistry IB.....	3
BIOLOGY 1101 Biology I: Molecules, Genes and Cells.....	3

<i>and</i>	
BIOLOGY 1202 Biology I: Organisms	3
<i>or</i>	
GEOLOGY 1100 Earth's Interior I	3
<i>and</i>	
GEOLOGY 1103 Earth Systems	3
<i>or</i>	
PHYSICS 1100 Physics IA.....	3
<i>and</i>	
PHYSICS 1200 Physics IB.....	3
<i>either</i>	
MATHS 1011 Mathematics IA	3
MATHS 1012 Mathematics IB	3
<i>or</i>	
MATHS 1013 Mathematics IMA*	3
MATHS 1011 Mathematics IA*	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 Mathematics IM A and MATHS 1011 Mathematics IA in lieu of MATHS 1011/1012 Mathematics I A/B. Such students must also complete MATHS 1012 Mathematics 1B. The satisfactory completion of Mathematics 1B 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 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 Ecological Issues	3
GEOLOGY 2005 Geology for Engineers.....	2
STATS 2004 Laplace Transforms and Probability and Statistical Methods.....	2

Third Year (24 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	or	
C&ENVENG 3014 Water Engineering and Design IIIB	2	MATHS 1013 Mathematics IMA*	3
C&ENVENG 3067 Environmental Science and Policy.....	2	MATHS 1011 Mathematics IA*	3
ECON 3018 Environmental Economics EIII	2	<i>* Students who have not taken SACE Stage 2 Specialist Maths will be required to take MATHS 1013 Mathematics IM A and MATHS 1011 Mathematics IA in lieu of MATHS 1011/1012 Mathematics I A/B. Such students must also complete MATHS 1012 Mathematics 1B. The satisfactory completion of Mathematics 1B is in addition to the normal requirements of the B.E.</i>	
Level II Science courses.....	8	Second Year (24 units)	
Fourth Year (24 units)		APP MTH 2010 Differential Equations & Statistical Methods (Civil).....	3
Level III Science courses.....	24	C&ENVENG 2006 Geotechnical Engineering II.....	2
Fifth Year (24 units)		C&ENVENG 2014 Engineering Modelling and Analysis II.....	2
C&ENVENG 4005 A/B Civil & Environmental Research Project #	6	C&ENVENG 2015 Construction & Surveying	2
C&ENVENG 4034 Engineering Management IV.....	3	C&ENVENG 2026 Environmental Engineering II ...	2
C&ENVENG 4037 Introduction to Environmental Law	3	C&ENVENG 2032 Structural Design IIA.....	2
12 units of Engineering Specialisation courses (see above)	12	C&ENVENG 2033 Water Engineering II S1	2
<i># Students who are not selected for Honours will be required to complete two additional final year specialisation courses instead of the Research Project.</i>		C&ENVENG 2035 Water Engineering II S2.....	2
3 Direct Entry B.E.(Civil & Environmental)/ B.Ma.& Comp.Sc.		C&ENVENG 2036 Strength of Materials IIE.....	2
Refer to Academic Program Rule 6.4.3 for the requirements of this program.		ENV BIOL 2005 Ecology E.....	3
4 Arts studies combined with the B.E.(Civil & Environmental)		GEOLOGY 2005 Geology for Engineers.....	2
(see also section 6.4.4 of these Rules)		Third Year (16 units)	
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:		C&ENVENG 3008 Engineering Modelling and Analysis III.....	2
To satisfy the requirements of the Arts component, 2008 commencing students must undertake 30 units of Arts courses, including an approved major sequence, comprising 3 units at Level 1, 9 units at level II, 12 units at Level III, plus another 6 units at any Level.		C&ENVENG 3009 Environmental Engineering and Design III.....	3
Engineering Component		C&ENVENG 3011 Engineering Management and Planning	2
First Year (24 units)		C&ENVENG 3012 Geotechnical Engineering Design III.....	3
C&ENVENG 1008 Engineering Planning and Design IA	3	C&ENVENG 3013 Water Engineering and Design IIIA	2
C&ENVENG 1009 Civil & Environmental Engineering IA	3	C&ENVENG 3014 Water Engineering and Design IIIB	2
C&ENVENG 1010 Engineering Mechanics - Statics.....	3	CHEM ENG 3011 Transport Processes in the Environment.....	2
C&ENVENG 10012 Engineering Modelling and Analysis IA	3	Fourth Year (24 units)	
ENV BIOL 1002 Environmental Biology I	3	C&ENVENG 4005 A/B Civil & Environmental Research Project #	6
<i>either</i>		C&ENVENG 4034 Engineering Management IV.....	3
MATHS 1011 Mathematics IA.....	3	C&ENVENG 4037 Introduction to Environmental Law	3
MATHS 1012 Mathematics IB.....	3	Engineering Specialisation courses to the value of at least 12 units	12
		<i># Students who are not selected for Honours will be required to complete two additional final year specialisation courses instead of the Research Project.</i>	

5 Program of study for the direct entry
B.E.(Civil & Environmental)/B.Ec. program

Note To students commencing this program in 2008

This program is currently under review, and there may be changes to the structure and the courses offered in this program from 2009. While the courses listed at Level I reflect the courses available in 2008, courses listed at higher levels should be considered as indicative only.

Students commencing study in 2008 will be provided with access to the revised Academic Program Rules for this program as part of their enrolment process. The revised Rules will be available from the following web address:
www.adelaide.edu.au/calendar

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 1008 Engineering Planning and Design IA	3
C&ENVENG 1009 Civil & Environmental Engineering IA	3
C&ENVENG 1010 Engineering Mechanics - Statics	3
C&ENVENG 1012 Engineering Modelling and Analysis IA	3
ECON 1004 Principles of Microeconomics I.....	3
ENV BIOL 1002 Ecological Issues.....	3
<i>either</i>	
MATHS 1011 Mathematics IA	3
MATHS 1012 Mathematics IB	3
<i>or</i>	
MATHS 1013 Mathematics IMA*	3
MATHS 1011 Mathematics IA*	3

* Students who have not taken SACE Stage 2 Specialist Maths will be required to take MATHS 1013 Mathematics IM A and MATHS 1011 Mathematics IA in lieu of MATHS 1011/1012 Mathematics I A/B. Such students must also complete MATHS 1012 Mathematics 1B. The satisfactory completion of Mathematics 1B is in addition to the normal requirements of the B.E.

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 1012 Engineering Modelling & Analysis IA at Level I and APP MTH 2010 Differential Equations & Statistical Methods (Civil) at Level II.

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
C&ENVENG 2036 Strength of Materials IIE.....	2
ENV BIOL 2005 Ecology E.....	3
GEOLOGY 2005 Geology for Engineers.....	2
Third Year (24 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 Processes in the Environment.....	2
ECON 2009 Consumers, Firms & Markets II.....	4
ECON 2011 Macroeconomic Theory & Policy II....	4
and courses to the value of at least 3 units from the following:	
C&ENVENG 3066 Engineering Communication & Language (ECL)*.....	3
ENV BIOL 3004 Freshwater Ecology III.....	3
ENV BIOL 3008 Conservation and Restoration.....	3
ENV BIOL 3012WT Integrated Catchment Management	3
ENV BIOL 3121 Concepts in Ecology EBIII.....	3
GEOLOGY 3010 Remote Sensing (S).....	3
SOIL&WAT 3004WT Environmental Toxicology and Remediation.....	3
SOIL&WAT 3007WT GIS for Environmental Management	3
Level II or III courses offered by the School of Mathematical Sciences	4

*Available only to students whose native language is not English. May be substituted with an elective course at level III

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 4005 A/B Civil & Environmental Research Project #	6
C&ENVENG 4034 Engineering Management IV	3
C&ENVENG 4037 Introduction to Environmental Law	3
Plus at least 12 units of Level IV Engineering Specialisation 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

Note To students commencing this program in 2008

This program is currently under review, and there may be changes to the structure and the courses offered in this program from 2009. While the courses listed at Level I reflect the courses available in 2008, courses listed at higher levels should be considered as indicative only.

Students commencing study in 2008 will be provided with access to the revised Academic Program Rules for this program as part of their enrolment process. The revised Rules will be available from the following web address: www.adelaide.edu.au/calendar

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 (24 units)	
C&ENVENG 1008 Engineering Planning and Design IA	3
C&ENVENG 1009 Civil & Environmental Engineering IA	3
C&ENVENG 1010 Engineering Mechanics - Statics	3
C&ENVENG 1012 Engineering Modelling & Analysis IA	3
ECON 1004 Principles of Microeconomics I	3
ENV BIOL 1002 Ecological Issues	3
either	
MATHS 1011 Mathematics IA	3
MATHS 1012 Mathematics IB	3
or	
MATHS 1013 Mathematics IMA*	3
MATHS 1011 Mathematics IA*	3

* Students who have not taken SACE Stage 2 Specialist Maths will be required to take MATHS 1013 Mathematics IM A and MATHS 1011 Mathematics IA in lieu of MATHS 1011/1012 Mathematics I A/B. Such students must also complete MATHS 1012 Mathematics 1B. The satisfactory completion of Mathematics 1B is in addition to the normal requirements of the B.E.

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 10012 Engineering Modelling & Analysis IA 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 and 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 Ecology E	3
ECON 1009 International Financial Institutions & Markets I	3
Third Year (24 units)	
C&ENVENG 2032 Structural Design IIA	2
C&ENVENG 3009 Environmental Engineering and Design III	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
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:	
GEOLOGY 3010 Remote Sensing (S)	3
ENV BIOL 3004 Freshwater Ecology III	3
ENV BIOL 3008 Conservation and Restoration	3
ENV BIOL 3012WT Integrated Catchment Management	3
ENV BIOL 3121 Concepts in Ecology EBIII	3
C&ENVENG 3066 Engineering Communication & Language (ECL)*	3
SOIL&WAT 3004WT Environmental Toxicology and Remediation	3
SOIL&WAT 3007WT GIS for Environmental Management	3

SOIL&WAT 3007WT GIS for Environmental Management	3
<i>or</i>	
Level II or III courses offered by 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
<i>and either</i>	
APP MTH 3011 Financial Modelling Techniques III.....	4
<i>or</i>	
CORPFIN 3013 Options, Futures & Risk Management III.....	4
Fifth Year (24 units)	
C&ENVENG 4005 A/B Civil & Environmental Research Project #	6
C&ENVENG 4034 Engineering Management IV. ...	3
C&ENVENG 4037 Introduction to Environmental Law	3
Plus at least 12 units of Level IV Engineering Specialisation courses listed above	12
<i># Students who are not selected for Honours will be required to complete two additional final year specialisation courses instead of the Research Project.</i>	
<i>* Available only to students whose native language is not English. May be substituted with an elective course at Level III.</i>	

6.5.7 Civil and Structural Engineering

Note To students commencing this program in 2008

This program is currently under review, and there may be changes to the structure and the courses offered in this program from 2009. While the courses listed at Level I reflect the courses available in 2008, courses listed at higher levels should be considered as indicative only.

Students commencing study in 2008 will be provided with access to the revised Academic Program Rules for this program as part of their enrolment process. The revised Rules will be available from the following web address: www.adelaide.edu.au/calendar

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 1008 Engineering Planning and Design IA	3
C&ENVENG 1009 Civil & Environmental Engineering IA	3
C&ENVENG 1010 Engineering Mechanics - Statics	3
C&ENVENG 1012 Engineering Modelling and Analysis IA	3

GEOLOGY 1104 Geology for Engineers.....	3
MECH ENG 1007 Engineering Mechanics - Dynamics	2
MATHS 1011 Mathematics IA	3
MATHS 1012 Mathematics IB	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 & Struct)/ 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 III (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 & Design IIIB	2
<i>either</i>	
ENG 3002 Engineering Communication ESL*	2
<i>or</i>	
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 units2

** Available only to students whose native language is not English; may be presented in lieu of 2 units of elective courses at Level III.*

Students undertaking the double program with Mathematical & Computer Sciences must present 6 units total of Maths courses at Level II or III of their engineering program. These units are made up of APP MTH 2000 Differential Equations & Fourier Series, STAS 2004 LaPlace Transforms & Probability & Statistical Methods and Level III elective Maths courses. This is in addition to the 24 units at Level III required for their Maths Program.

Level IV

C&ENVENG 4003 A/B Civil & Structural Engineering Research Project #	6
C&ENVENG 4034 Engineering Management IV	3
Specialisation courses to the value of 15 units ...	15

The Specialisation 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 4068 Computer Methods of Structural Analysis and Design	3
C&ENVENG 4069 Advanced Reinforced Concrete	3
C&ENVENG 4070 Structural Dynamics due to Wind and Earthquake.....	3
C&ENVENG 4096 FRP Retrofitting of Concrete Structures	3
C&ENVENG 4099 Structural Response to Blast Loading.....	3

Group II: Geotechnical Engineering

C&ENVENG 4079 Deep Foundation Engineering & Design.....	3
C&ENVENG 4081 Expansive Soils and Footing Design.....	3

Group III: Water Engineering

C&ENVENG 4073 Water Distribution Systems and Design.....	3
C&ENVENG 4075 Water Resources Optimisation and Design.....	3
C&ENVENG 4077 Coastal Engineering and Design.....	3
C&ENVENG 4097 Analysis of Rivers and Sediment Transport	3
C&ENVENG 4098 Water Resources Sustainability and Design.....	3

Group IV: Management Engineering

C&ENVENG 4085 Traffic Engineering & Design	3
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Group V: Environmental Engineering

C&ENVENG 4087 Environmental Modelling, Management and Design.....	3
C&ENVENG 4091 Waste Management Analysis & Design.....	3
C&ENVENG 4092 Wastewater Engineering & Design.....	3

Alternatively students may substitute up to 3 units of Level II or III courses offered by the School of Mathematics

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 1007 Law of Torts 2.....	4
LAW 2117 Law of Contract 2.....	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

Note To students commencing this program in 2008

This program is currently under review, and there may be changes to the structure and the courses offered in this program from 2009. While the courses listed at Level I reflect the courses available in 2008, courses listed at higher levels should be considered as indicative only.

Students commencing study in 2008 will be provided with access to the revised Academic Program Rules for this program as part of their enrolment process. The revised Rules will be available from the following web address:
www.adelaide.edu.au/calendar

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 1008 Engineering Planning and Design IA	3
C&ENVENG 1009 Civil & Environmental Engineering IA	3

C&ENVENG 1010 Engineering Mechanics - Statics	3
C&ENVENG 1012 Engineering Modelling and Analysis IA	3
GEOLOGY 1104 Geology for Engineers.....	3
<i>either</i>	
MATHS 1011 Mathematics IA	3
MATHS 1012 Mathematics IB	3
<i>or</i>	
MATHS 1013 Mathematics IMA*	3
MATHS 1011 Mathematics IA*	3
MECH ENG 1007 Engineering Mechanics - Dynamics	3
* <i>Students who have not taken SACE Stage 2 Specialist Maths will be required to take MATHS 1013 Mathematics IM A and MATHS 1011 Mathematics IA in lieu of MATHS 1011/1012 Mathematics I A/B. Such students must also complete MATHS 1012 Mathematics 1B. The satisfactory completion of Mathematics 1B is in addition to the normal requirements of the B.E.</i>	
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
Third Year (24 units)	
C&ENVENG 3001 Structural Mechanics IIIA	3
C&ENVENG 3005 Structural Design III (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
Fourth Year (25 units)	
C&ENVENG 4003 A/B Civil & Structural Engineering Research Project #	6
C&ENVENG 4034 Civil Engineering Management IV	3
Plus 12 units of Engineering Specialisation courses (see above).....	12

* *Students should consult the Law School at enrolment for advice on electives offered.*

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 & 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 (24 units)

C&ENVENG 1008 Engineering Planning and Design IA	3
C&ENVENG 1009 Civil & Environmental Engineering IA	3
C&ENVENG 1010 Engineering Mechanics - Statics	3
C&ENVENG 1012 Engineering Modelling and Analysis IA	3

either

MATHS 1011 Mathematics IA	3
MATHS 1012 Mathematics IB	3

or

MATHS 1013 Mathematics IMA*	3
MATHS 1011 Mathematics IA*	3

and either#

CHEM 1100 Chemistry IA.....	3
CHEM 1200 Chemistry IB.....	3

or

BIOLOGY 1101 Biology I: Molecules, Genes and Cells.....	3
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and

BIOLOGY 1202 Biology I: Organisms

or

GEOLOGY 1100 Earth's Interior I	3
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and

GEOLOGY 1103 Earth System	3
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or

PHYSICS 1100 Physics IA.....	3
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and

PHYSICS 1200 Physics IB.....	3
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* *Students who have not taken SACE Stage 2 Specialist Maths will be required to take MATHS 1013 Mathematics IM A and MATHS 1011 Mathematics IA in lieu of MATHS 1011/1012 Mathematics I A/B. Such students must also complete MATHS 1012 Mathematics 1B. The satisfactory completion of Mathematics 1B is in addition to the normal requirements of the B.E*

	Second Year (25 units)	
	APP MTH 2000 Differential Equations & 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
	<i># 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.</i>	
	Third Year (24 units)	
	C&ENVENG 3001 Structural Mechanics IIIA	3
	C&ENVENG 3005 Structural Design III (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 4003 A/B Civil & Structural Engineering Research Project #	6
	C&ENVENG 4034 Engineering Management IV.....	3
	Level IV specialisation courses to the value of at least 15 units (see above)	15
	<i># Students who are not selected for Honours will be required to complete two additional final year specialisation courses instead of the Research Project.</i>	
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, 2008 commencing students must undertake 30 units of Arts courses, including an approved major sequence , comprising 9 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	
	C&ENVENG 1008 Engineering Planning and Design IA	3
	C&ENVENG 1009 Civil & Environmental Engineering IA	3
	C&ENVENG 1010 Engineering Mechanics - Statics	3
	C&ENVENG 1012 Engineering Modelling and Analysis IA	3
	<i>either</i>	
	MATHS 1011 Mathematics IA	3
	MATHS 1012 Mathematics IB	3
	<i>or</i>	
	MATHS 1013 Mathematics IMA*	3
	MATHS 1011 Mathematics IA*	3
	MECH ENG 1007 Engineering Mechanics - Dynamics	3
	<i>* Students who have not taken SACE Stage 2 Specialist Maths will be required to take MATHS 1013 Mathematics IM A and MATHS 1011 Mathematics IA in lieu of MATHS 1011/1012 Mathematics I A/B. Such students must also complete MATHS 1012 Mathematics 1B. The satisfactory completion of Mathematics 1B is in addition to the normal requirements of the B.E.</i>	
	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	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

Third Year (20 units)	
C&ENVENG 3001 Structural Mechanics IIIA	3
C&ENVENG 3003 Environmental Engineering II.....	2
C&ENVENG 3005 Structural Design III (Concrete)	3
C&ENVENG 3007 Structural Design III (Steel).....	3
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
Fourth Year (24 units)	
C&ENVENG 4003 A/B Civil & Structural Engineering Research Project #	6
C&ENVENG 4034 Engineering Management IV.....	3
Civil Engineering specialisation courses to the value of at least 15 units (see above)	15

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 & Structural)/B.Ec. program**

Note To students commencing this program in 2008

This program is currently under review, and there may be changes to the structure and the courses offered in this program from 2009. While the courses listed at Level I reflect the courses available in 2008, courses listed at higher levels should be considered as indicative only.

Students commencing study in 2008 will be provided with access to the revised Academic Program Rules for this program as part of their enrolment process. The revised Rules will be available from the following web address:
www.adelaide.edu.au/calendar

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 1008 Engineering Planning and Design IA	3
C&ENVENG 1009 Civil & Environmental Engineering IA	3
C&ENVENG 1010 Engineering Mechanics - Statics	3
C&ENVENG 1012 Engineering Modelling and Analysis IA	3
ECON 1004 Principles of Microeconomics I.....	3
<i>either</i>	
MATHS 1011 Mathematics IA	3
MATHS 1012 Mathematics IB	3
<i>or</i>	

MATHS 1013 Mathematics IMA*	3
MATHS 1011 Mathematics IA*	3
MECH ENG 1007 Engineering Mechanics - Dynamics	3

* *Students who have not taken SACE Stage 2 Specialist Maths will be required to take MATHS 1013 Mathematics IMA and MATHS 1011 Mathematics IA in lieu of MATHS 1011/1012 Mathematics I A/B. Such students must also complete MATHS 1012 Mathematics 1B. The satisfactory completion of Mathematics 1B is in addition to the normal requirements of the B.E.*

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 1012 Engineering Modelling & Analysis IA 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 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 IIIB.....	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 III (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 4003 A/B Civil & Structural Engineering Research Project # 6

C&ENVENG 4034 Engineering Management IV....3

15 units of Level IV Engineering specialisation courses (see above)..... 15

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 & Structural)/B.Fin. program

Note To students commencing this program in 2008

This program is currently under review, and there may be changes to the structure and the courses offered in this program from 2009. While the courses listed at Level I reflect the courses available in 2008, courses listed at higher levels should be considered as indicative only.

Students commencing study in 2008 will be provided with access to the revised Academic Program Rules for this program as part of their enrolment process. The revised Rules will be available from the following web address:

www.adelaide.edu.au/calendar

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 1008 Engineering Planning and Design IA3

C&ENVENG 1009 Civil & Environmental Engineering IA3

C&ENVENG 1010 Engineering Mechanics - Statics 3

C&ENVENG 1012 Engineering Modelling and Analysis IA3

ECON 1004 Principles of Microeconomics I.....3

either
MATHS 1011 Mathematics IA3

MATHS 1012 Mathematics IB 3

or
MATHS 1013 Mathematics IMA* 3

MATHS 1011 Mathematics IA* 3

MECH ENG 1007 Engineering Mechanics - Dynamics3

**Students who have not taken SACE Stage 2 Specialist Maths will be required to take MATHS 1013 Mathematics IM A and MATHS 1011 Mathematics IA in lieu of MATHS 1011/1012 Mathematics I A/B. Such students must also complete MATHS 1012 Mathematics 1B. The satisfactory completion of Mathematics 1B is in addition to the normal requirements of the B.E.*

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 1012 Engineering Modelling & Analysis IA 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 I3

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 Surveying2

C&ENVENG 2025 Strength of Materials IIA3

C&ENVENG 2032 Structural Design IIA.....2

C&ENVENG 2033 Water Engineering II S12

C&ENVENG 2034 Structural Design IIB.....2

C&ENVENG 2035 Water Engineering II S2.....2

ECON 1009 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 III (Concrete) 3

C&ENVENG 3007 Structural Design III (Steel).....3

CORPFIN 2006 Business Finance II4

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 IIIA2

C&ENVENG 3014 Water Engineering and Design IIIB2

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 III4

or
CORPFIN 3013 Options, Futures and Risk Management III..... 4

Fifth Year (24 units)

C&ENVENG 4003 A/B Civil & Structural Engineering Research Project #	6
C&ENVENG 4034 Engineering Management IV.....	3
Plus 15 units of Level IV Engineering Specialisation courses listed above.....	15

Students who are not selected for Honours will be required to complete two additional final year specialisation courses instead of the Research Project.

7 Program of study for the direct entry B.E.(Civil & Structural)/ B.E.(Civil & Environmental) program

Note To students commencing this program in 2008

This program is currently under review, and there may be changes to the structure and the courses offered in this program from 2009. While the courses listed at Level I reflect the courses available in 2008, courses listed at higher levels should be considered as indicative only.

Students commencing study in 2008 will be provided with access to the revised Academic Program Rules for this program as part of their enrolment process. The revised Rules will be available from the following web address:
www.adelaide.edu.au/calendar

To qualify for the combined award 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 1008 Engineering Planning and Design IA	3
C&ENVENG 1009 Civil & Environmental Engineering IA	3
C&ENVENG 1010 Engineering Mechanics - Statics	3
C&ENVENG 1012 Engineering Modelling and Analysis IA	3
GEOLOGY 1104 Geology for Engineers.....	3

either

MATHS 1011 Mathematics IA	3
MATHS 1012 Mathematics IB	3

or

MATHS 1013 Mathematics IMA*	3
MATHS 1011 Mathematics IA*	3
MECH ENG 1007 Engineering Mechanics - Dynamics	3

* Students who have not taken SACE Stage 2 Specialist Maths will be required to take MATHS 1013 Mathematics IMA and MATHS 1011 Mathematics IA in lieu of MATHS 1011/1012 Mathematics I A/B. Such students must also complete MATHS 1012 Mathematics 1B. The satisfactory completion of Mathematics 1B is in addition to the normal requirements of the B.E

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	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

Third Year (25 units)

C&ENVENG 3001 Structural Mechanics IIIA	3
C&ENVENG 3005 Structural Design III (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.....	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 & 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 4003A/B Civil & Structural Engineering Research Project	6
C&ENVENG 4034 Engineering Management IV.....	3
ECON 3018 Environmental Economics EIII	3
ENV BIOL 2005 Ecology E.....	3
Specialisation courses (see above).....	3
Courses to the value of at least 3 units from:	
C&ENVENG 3066 Engineering Communication and Language (ECL)*.....	3
ENV BIOL 3004 Freshwater Ecology III.....	3
ENV BIOL 3008 Conservation and Restoration.....	3
ENV BIOL 3012WT Integrated Catchment Management	3
ENV BIOL 3121 Concepts in Ecology EBIII.....	3
GEOLOGY 3010 Remote Sensing (S).....	3

SOIL&WAT 3004WT Environmental Toxicology and Remediation.....	3
SOIL&WAT 3007WT GIS for Environmental Management	3
Level II or III Mathematics courses	4

**Available only to students whose native language is not English. May be substituted with an elective course at level III Fifth Year (24 units)*

C&ENVENG 4005 A/B Civil & Environmental Research Project #.....	6
C&ENVENG 4037 Introduction to Environmental Law	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 & Structural Engineering Research Project must be in the area of structural and/or geotechnical engineering while the Civil & Environmental Research Project must be in the area of water and/or environmental engineering. In order to be considered for Honours, students need to take at least one Research Project

6.5.8 Computational 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

APP MTH 1000 Scientific Computing	3
C&ENVENG 1010 Engineering Mechanics - Statics	3
CHEM ENG 1009 Materials I.....	3
ELEC ENG 1009 Electrical & Electronic Engineering IA	3
MATHS 1011 Mathematics IA.....	3
MATHS 1012 Mathematics IB	3
MECH ENG 1006 Design Graphics & Communications.....	3
MECH ENG 1007 Engineering Mechanics - Dynamics	3

Level II

C&ENV ENG 2025 Strength of Materials IIA	3
MECH ENG 2002 Stress Analysis & Design.....	3
MECH ENG 2019 Dynamics & Control I.....	3
MECH ENG 2021 Thermo Fluids I.....	3
PURE MTH 2003 Real Analysis II	3

Courses to the value of 9 units in the areas of:

APP MTH Differential Equations & Statistical Methods	
APP MTH Vector Analysis, Complex Analysis & Laplace Transforms	
MATHS Numerical Methods	

Level III

APP MTH 3002 Fluid Mechanics III.....	3
APP MTH 3010 Variational Methods and Optimal Control	3
APP MTH 3013 Differential Equations III	3
APP MTH 3014 Optimisation	3
Mechanical Engineering courses to the value of 12 units in the areas of:	
Dynamics and Control II	
Engineering Systems Design & Communications	
Heat Transfer and Thermodynamics	
Structural Design & Solid Mechanics	

Level IV

APP MTH 3000 Computational Mathematics.....	3
Courses to the value of 9 units in the areas of:	
Computational Engineering Project	
Engineering Management and Quality Systems and	
Electives to the value of 12 units.....	12

Electives

APP MTH 4003 Aerodynamics	3
APP MTH 4007 Computational Fluid Mechanics (Engineering).....	3
PHYSICS 3000 Computational Physics	3
Courses to the value of 12 units in the areas of:	
APP MTH Waves	
COMP SCI Distributed High Performance Computing	
MECH ENG Computational Technique for Engineering Applications	
MECH ENG Finite Element Analysis of Structures	

6.5.9 Computer Systems Engineering

Note To students commencing this program in 2008

This program is currently under review, and there may be changes to the structure and the courses offered in this program from 2009. While the courses listed at Level I reflect the courses available in 2008, courses listed at higher levels should be considered as indicative only.

Students commencing study in 2008 will be provided with access to the revised Academic Program Rules for this program as part of their enrolment process. The revised Rules will be available from the following web address: www.adelaide.edu.au/calendar

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 1009 Electrical & Electronic Engineering IA	3

ELEC ENG 1010 Electrical & Electronic Engineering IB	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 & Algorithms	3
ELEC ENG 2007 Signals and Systems	3
ELEC ENG 2008 Electronics II	3
ELEC ENG 2009 Engineering Electromagnetics	3
ELEC ENG 2010 A/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 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 3019 A/B Practical Electrical & Electronic Design III	3
ELEC ENG 3020 Embedded Computer Systems	3
ELEC ENG 3022 Real Time Systems IV	3
ENG 3002 Engineering Communication ESL*	2

*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 4036 A/B Design Project #	6
or	
ELEC ENG 4039 A/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

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 4033 Advanced Telecommunications	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 4048 Automotive Electrical and Electronic Systems	2
ELEC ENG 4049 Analog Microelectronic Systems	2
ELEC ENG 4050 Systems Engineering	2
ELEC ENG 4051 Introduction to Electronic Defence Systems	2
PURE MTH 3018 Coding and Cryptology III	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 1005 Property Law	4
LAW 1007 Law of Torts 2	4
LAW 2117 Law of Contract 2	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.

Note To students commencing this program in 2008

This program is currently under review, and there may be changes to the structure and the courses offered in this program from 2009. While the courses listed at Level I reflect the courses available in 2008, courses listed at higher levels should be considered as indicative only.

Students commencing study in 2008 will be provided with access to the revised Academic Program Rules for this program as part of their enrolment process. The revised Rules will be available from the following web address:
www.adelaide.edu.au/calendar

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 1009 Electrical & Electronic Engineering IA	3

either

LAW 1001 Introduction to Australian Law	4
MATHS 1011 Mathematics IA	3
MATHS 1012 Mathematics IB	3

or

MATHS 1013 Mathematics IMA*	3
MATHS 1011 Mathematics IA*	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 Mathematics IM A and MATHS 1011 Mathematics IA in lieu of MATHS 1011/1012 Mathematics I A/B. Such students must also complete MATHS 1012 Mathematics 1B. The satisfactory completion of Mathematics 1B is in addition to the normal requirements of the B.E*

Second Year (27 units)

APP MTH 2000 Differential Equations & Fourier Series.....	2
APP MTH 2002 Vector Analysis and Complex Analysis.....	2
COMP SCI 2004 Data Structures & Algorithms	3
ELEC ENG 1010 Electrical & Electronic Engineering IB	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 (23 units)

COMP SCI 2000 Computer Systems	3
ELEC ENG 2008 Electronics II.....	3
ELEC ENG 2009 Engineering Electromagnetics...	3
ELEC ENG 2010 A/B Practical Electronic Design II.....	3

ELEC ENG 3015 Communications Signals and Systems	3
Law courses to the value of 10 units.....	10
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 3019 A/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 4036 A/B Design Project #	6

<i>or</i>	
ELEC ENG 4039 A/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.	

or

ELEC ENG 4039 A/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 & 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 1009 Electrical & Electronic Engineering IA	3

either

MATHS 1011 Mathematics IA	3
MATHS 1012 Mathematics IB	3

or

MATHS 1013 Mathematics IMA*	3
MATHS 1011 Mathematics IA*	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 Mathematics IM A and MATHS 1011 Mathematics IA in lieu of MATHS 1011/1012 Mathematics I A/B. Such students must also complete MATHS 1012 Mathematics 1B. The satisfactory completion of Mathematics 1B is in addition to the normal requirements of the B.E.*

Second Year (24 units)

Arts course(s) to the value of 6 units	6
APP MTH 2000 Differential Equations & 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 2010 A/B Practical Electronic Design II	3
STATS 2004 Laplace Transforms & Probability & Statistical Methods	2

Third Year (24 units)

Level II Arts courses	9
COMP SCI 2004 Data Structures & 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 3019 A/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 4036 A/B Design Project #	6

or

ELEC ENG 4039 A/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

Note To students commencing this program in 2008

This program is currently under review, and there may be changes to the structure and the courses offered in this program from 2009. While the courses listed at Level I reflect the courses available in 2008, courses listed at higher levels should be considered as indicative only.

Students commencing study in 2008 will be provided with access to the revised Academic Program Rules for this program as part of their enrolment process. The revised Rules will be available from the following web address:
www.adelaide.edu.au/calendar

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 1009 Electrical & Electronic Engineering IA	3

either

MATHS 1011 Mathematics IA	3
MATHS 1012 Mathematics IB	3

or

MATHS 1013 Mathematics IMA*	3
MATHS 1011 Mathematics IA*	3

PHYSICS 1100 Physics IA.....	3
PHYSICS 1200 Physics IB.....	3
<i>* Students who have not taken SACE Stage 2 Specialist Maths will be required to take MATHS 1013 Mathematics IM A and MATHS 1011 Mathematics IA in lieu of MATHS 1011/1012 Mathematics I A/B. Such students must also complete MATHS 1012 Mathematics 1B. The satisfactory completion of Mathematics 1B is in addition to the normal requirements of the B.E</i>	
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 & Fourier Series.....	2
APP MTH 2002 Vector Analysis & Complex Analysis	2
COMP SCI 2004 Data Structures & 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 2010 A/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 & 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)	
COMMGMGT 2007 Organisational Behaviour II	4
COMP SCI 3006 Software Engineering and Project.....	3
ELEC ENG 3018 RF Engineering III.....	3
ELEC ENG 3019 A/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 (23 units)	
COMP SCI 3001 Computer Networks and Applications	3
ELEC ENG 4035 Communications IV	2
ELEC ENG 4036 A/B Design Project #	6
<i>or</i>	
ELEC ENG 4039 A/B Honours Project #	6
ELEC ENG 4037 Digital Microelectronics	2
STATS 4001 Reliability and Quality Control.....	2
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 (students must have a total of 16 units of Level III Economics courses.)	
	8
<i># Students accepted into the Honours stream will take Honours Project and other student will take Design Project.</i>	

6 Program of study for the direct entry B.E.(Computer Systems)/B.Fin. program

Note To students commencing this program in 2008

This program is currently under review, and there may be changes to the structure and the courses offered in this program from 2009. While the courses listed at Level I reflect the courses available in 2008, courses listed at higher levels should be considered as indicative only.

Students commencing study in 2008 will be provided with access to the revised Academic Program Rules for this program as part of their enrolment process. The revised Rules will be available from the following web address:
www.adelaide.edu.au/calendar

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 1009 Electrical & Electronic Engineering IA	3
<i>either</i>	
MATHS 1011 Mathematics IA.....	3
MATHS 1012 Mathematics IB	3
<i>or</i>	
MATHS 1013 Mathematics IMA *.....	3
MATHS 1011 Mathematics IA*	3
PHYSICS 1100 Physics IA.....	3
PHYSICS 1200 Physics IB.....	3
<i>* Students who have not taken SACE Stage 2 Specialist Maths will be required to take MATHS 1013 Mathematics IM A and MATHS 1011 Mathematics IA in lieu of MATHS</i>	

1011/1012 Mathematics I A/B. Such students must also complete MATHS 1012 Mathematics 1B. The satisfactory completion of Mathematics 1B is in addition to the normal requirements of the B.E.

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 & Algorithms	3
ECON 1000 Principles of Macroeconomics I.....	3
ELEC ENG 2007 Signals and Systems.....	3
ELEC ENG 2008 Electronics II.....	3
ELEC ENG 2010 A/B Practical Electronic Design II.....	3
ECON 1009 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 (24 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 3019 A/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)

COMP SCI 3001 Computer Networks and Applications	3
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ELEC ENG 3022 Real Time Systems IV	3
ELEC ENG 4035 Communications IV	2
ELEC ENG 4036 A/B Design Project #	6

or

ELEC ENG 4039 A/B Honours Project #	6
ELEC ENG 4037 Digital Microelectronics	2

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 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
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Students accepted into the Honours stream will take Honours Project and other student will take Design Project.

* Students must have a total 16 units of Level III Finance courses

6.5.10 Electrical and Electronic Engineering

Note To students commencing this program in 2008

This program is currently under review, and there may be changes to the structure and the courses offered in this program from 2009. While the courses listed at Level I reflect the courses available in 2008, courses listed at higher levels should be considered as indicative only.

Students commencing study in 2008 will be provided with access to the revised Academic Program Rules for this program as part of their enrolment process. The revised Rules will be available from the following web address: www.adelaide.edu.au/calendar

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 1009 Electrical & Electronic Engineering IA	3
ELEC ENG 1010 Electrical & Electronic Engineering IB	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 & Algorithms	3
ELEC ENG 2007 Signals and Systems.....	3
ELEC ENG 2008 Electronics II.....	3
ELEC ENG 2009 Engineering Electromagnetics..	3
ELEC ENG 2010 A/B Practical Electronic Design II.....	3
STATS 2004 Laplace Transforms and Probability and Statistical Methods.....	2

Level III

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 3019 A/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
ENG 3002 Engineering Communication ESL*	2

* 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 4036 A/B Design Project #	6
or	
ELEC ENG 4039 A/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 & Applications	3
COMP SCI 3004 Operating Systems	3
COMP SCI 3005 Computer Architecture	3
ELEC ENG 3022 Real Time Systems IV	3
ELEC ENG 4033 Advanced Telecommunications ..	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 4048 Automotive Electrical and Electronic Systems.....	2
ELEC ENG 4049 Analog Microelectronic Systems	2
ELEC ENG 4050 Systems Engineering	2
ELEC ENG 4051 Introduction to Electronic Defence Systems	2
PURE MTH 3018 Coding & Cryptology III	3

Law courses+

LAW 1001 Introduction to Australian Law	4
LAW 1002 Law of Torts	4
LAW 1003 Law of Contract	4
LAW 1007 Law of Torts 2.....	4
LAW 2117 Law of Contract 2	4
Law electives - it is strongly recommended that Contract Law II and Advanced Torts should be taken as Law electives.	

Students accepted into the Honours stream will take Honours Project - 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.

+ 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

Note To students commencing this program in 2008

This program is currently under review, and there may be changes to the structure and the courses offered in this program from 2009. While the courses listed at Level I reflect the courses available in 2008, courses listed at higher levels should be considered as indicative only.

Students commencing study in 2008 will be provided with access to the revised Academic Program Rules for this program as part of their enrolment process. The revised Rules will be available from the following web address:
www.adelaide.edu.au/calendar

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 1009 Electrical & Electronic Engineering IA	3

LAW 1001 Introduction to Australian Law	4
<i>either</i>	
MATHS 1011 Mathematics IA	3
MATHS 1012 Mathematics IB	3
<i>or</i>	
MATHS 1013 Mathematics IMA*	3
MATHS 1011 Mathematics IA*	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 Mathematics IM A and MATHS 1011 Mathematics IA in lieu of MATHS 1011/1012 Mathematics I A/B. Such students must also complete MATHS 1012 Mathematics 1B. The satisfactory completion of Mathematics 1B is in addition to the normal requirements of the B.E.	
Second Year (23 units)	
APP MTH 2000 Differential Equations & Fourier Series	2
APP MTH 2002 Vector Analysis & Complex Analysis	2
COMP SCI 2004 Data Structures & Algorithms	3
ELEC ENG 1010 Electrical & Electronic Engineering IB	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 2010 A/B Practical Electronic Design II	3
ELEC ENG 3015 Communications Signals & Systems	3
Law electives *	10
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 3019 A/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 4036 A/B Design Project #

or

ELEC ENG 4039 A/B Honours Project #

ELEC ENG 4042 Power Electronics & Drive Systems

ELEC ENG 4044 RF Engineering IV

either

ELEC ENG 4037 Digital Microelectronics

or

MECH ENG 4046 Telecommunications

Law courses* to the value of 14 units

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)

Note To students commencing this program in 2008

This program is currently under review, and there may be changes to the structure and the courses offered in this program from 2009. While the courses listed at Level I reflect the courses available in 2008, courses listed at higher levels should be considered as indicative only.

Students commencing study in 2008 will be provided with access to the revised Academic Program Rules for this program as part of their enrolment process. The revised Rules will be available from the following web address:
www.adelaide.edu.au/calendar

To qualify for the combined award 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

COMP SCI 1009 Computer Science IB

ELEC ENG 1009 Electrical & Electronic Engineering IA

ELEC ENG 1010 Electrical & Electronic Engineering IB

either

MATHS 1011 Mathematics IA

MATHS 1012 Mathematics IB

or

MATHS 1013 Mathematics IMA*

MATHS 1011 Mathematics IA*	3
PHYSICS 1100 Physics IA	3
PHYSICS 1200 Physics IB	3
• <i>Students who have not taken SACE Stage 2 Specialist Maths will be required to take MATHS 1013 Mathematics IM A and MATHS 1011 Mathematics IA in lieu of MATHS 1011/1012 Mathematics I A/B. Such students must also complete MATHS 1012 Mathematics 1B. The satisfactory completion of Mathematics 1B is in addition to the normal requirements of the B.E.</i>	
Second Year (23 units)	
APP MTH 2000 Differential Equations & Fourier Series	2
APP MTH 2002 Vector Analysis & Complex Analysis	2
ELEC ENG 2007 Signals and Systems	3
ELEC ENG 2008 Electronics II	3
ELEC ENG 2010 A/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 & Algorithms	3
ELEC ENG 2009 Engineering Electromagnetics	3
ELEC ENG 3015 Communications Signals & 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
Plus at least one of:	
PHYSICS 2002, Classical Fields & Mathematical Models	2
<i>or</i>	
PHYSICS 2009 Photonics II	2
Fourth Year (24 units)	
ELEC ENG 3016 Control III	3
ELEC ENG 3018 RF Engineering III	3
ELEC ENG 3019 A/B Practical Electrical & Electronic Design III	3
ELEC ENG 3021 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 of Physics selected from:		
PHYSICS 3002 Experimental Physics III	3	
PHYSICS 3006 Advanced Dynamics and Relativity III	3	
PHYSICS 3009 Statistical Mechanics III	2	
Fifth Year (25 units)		
ELEC ENG 4036 A/B Design Project #	6	
<i>or</i>		
ELEC ENG 4039 A/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	
PHYSICS 3004 Quantum Mechanics IIIA	2	
Engineering elective course to the value of 2 units listed above		2

plus at least 6 units of courses selected from:	
PHYSICS 3014 Atmospheric & Environmental Physics III	3
PHYSICS 3020 Photonics III	3
PHYSICS 3022 Quantum Mechanics IIIB	2
and an appropriate course offered by Applied Mathematics and specified under Academic Program Rule 4.2.3.1 of the degree of Bachelor of Mathematical and Computer Sciences.	

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 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 1009 Electrical & Electronic Engineering IA.....	3
<i>either</i>	
MATHS 1011 Mathematics IA.....	3
MATHS 1012 Mathematics IB.....	3
<i>or</i>	
MATHS 1013 Mathematics IMA*.....	3
MATHS 1011 Mathematics IA*.....	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 Mathematics IM A and MATHS 1011 Mathematics IA in lieu of MATHS 1011/1012 Mathematics I A/B. Such students must also complete MATHS 1012 Mathematics 1B. The satisfactory completion of Mathematics 1B is in addition to the normal requirements of the B.E.

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 2010 A/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 & 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 3019 A/B Practical Electrical and Electronic Design III.....	3
ELEC ENG 3021 Electric Energy System.....	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 4036 A/B Design Project #.....	6
<i>or</i>	
ELEC ENG 4039 A/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

Note To students commencing this program in 2008

This program is currently under review, and there may be changes to the structure and the courses offered in this program from 2009. While the courses listed at Level I reflect the courses available in 2008, courses listed at higher levels should be considered as indicative only.

Students commencing study in 2008 will be provided with access to the revised Academic Program Rules for this program as part of their enrolment process. The revised Rules will be available from the following web address:
www.adelaide.edu.au/calendar

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 1009 Electrical & Electronic Engineering IA.....	3
<i>either</i>	
MATHS 1011 Mathematics IA.....	3
MATHS 1012 Mathematics IB.....	3
<i>or</i>	
MATHS 1013 Mathematics IMA*.....	3
MATHS 1011 Mathematics IA*.....	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 Mathematics IM A and MATHS 1011 Mathematics IA in lieu of MATHS 1011/1012 Mathematics I A/B. Such students must also complete MATHS 1012 Mathematics 1B. The satisfactory completion of Mathematics 1B is in addition to the normal requirements of the B.E.

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 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 & Fourier Series.....	2
APP MTH 2002 Vector Analysis and Complex Analysis.....	2
COMP SCI 2004 Data Structures & 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 2010 A/B Practical Electronic Design II.....	3
STATS 2004 Laplace Transforms and Probability and Statistical Methods.....	2

Third Year (26 units)

COMP SCI 2000 Computer System	3
ECON 2009 Consumers, Firms and Markets II.....	4
ECON 2011 Macroeconomic Theory & 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 3019 A/B Practical Electrical & 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 (24 units)

ELEC ENG 4036 A/B Design Project #	6
or	
ELEC ENG 4039 A/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
STATS 4001 Reliability and Quality Control.....	2

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

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

Note To students commencing this program in 2008

This program is currently under review, and there may be changes to the structure and the courses offered in this program from 2009. While the courses listed at Level I reflect the courses available in 2008, courses listed at higher levels should be considered as indicative only.

Students commencing study in 2008 will be provided with access to the revised Academic Program Rules for this program as part of their enrolment process. The revised Rules will be available from the following web address:

www.adelaide.edu.au/calendar

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 1009 Electrical & Electronic Engineering IA	3
either	
MATHS 1011 Mathematics IA.....	3
MATHS 1012 Mathematics IB	3
or	
MATHS 1013 Mathematics IMA*	3
MATHS 1011 Mathematics IA*	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 Mathematics IM A and MATHS 1011 Mathematics IA in lieu of MATHS 1011/1012 Mathematics I A/B. Such students must also complete MATHS 1012 Mathematics 1B. The satisfactory completion of Mathematics 1B is in addition to the normal requirements of the B.E.

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 & Fourier Series.....	2
APP MTH 2002 Vector Analysis and Complex Analysis.....	2
COMP SCI 2004 Data Structures & Algorithms ...	3
ECON 1000 Principles of Macroeconomics I.....	3
ELEC ENG 2007 Signals and Systems.....	3
ELEC ENG 2008 Electronics II.....	3
ELEC ENG 2010 A/B Practical Electronic Design II.....	3
ECON 1009 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 3019 A/B Practical Electrical & 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 (22 units)	
ELEC ENG 4036A/B Design Project #	6
<i>or</i>	
ELEC ENG 4039A/B Honours Project #	6
ELEC ENG 4037 Digital Microelectronics	2
ELEC ENG 4046 Telecommunications IV.....	2
ELEC ENG 4042 Power Electronics & Drive Systems	2
ELEC ENG 4044 RF Engineering IV.....	2
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, including:	
CORPFIN 3009 Portfolio Theory and Management III.....	4
<i>and either</i>	
APP MTH 3011 Financial Modelling Techniques III	4
<i>or</i>	
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.	

6.5.11 Mechanical Engineering

Note To students commencing this program in 2008

This program is currently under review, and there may be changes to the structure and the courses offered in this program from 2009. While the courses listed at Level I reflect the courses available in 2008, courses listed at higher levels should be considered as indicative only.

Students commencing study in 2008 will be provided with access to the revised Academic Program Rules for this program as part of their enrolment process. The revised Rules will be available from the following web address: www.adelaide.edu.au/calendar

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&ENVEG 1010 Engineering Mechanics - Statics	3
CHEM ENG 1008 Engineering Computing.....	3
CHEM ENG 1009 Materials I.....	3
ELEC ENG 1009 Electrical & Electronic Engineering IA	3
MATHS 1011 Mathematics IA.....	3
MATHS 1012 Mathematics IB	3
MECH ENG 1006 Design Graphics and Communication M.....	3
MECH ENG 1007 Engineering Mechanics - Dynamics	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 I.....	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
ENG 3002 Engineering Communication ESL*	2
MECH ENG 3016 Aeronautical Engineering I	2
MECH ENG 3017 Sustainability and the Environment	2
MECH ENG 3020 Heat Transfer	2
MECH ENG 3027 Engineering Systems 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 4007 A/B Mechanical Honours Project Level IV#	8
or	
MECH ENG 4041 A/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 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 4020 Advanced Vibrations.....	2
MECH ENG 4023 Advanced Topics in Fluid Mechanics	2
MECH ENG 4024 Materials Selection and Failure Analysis	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 4045 Advanced Manufacturing and Quality Systems.....	2
MECH ENG 4046 CFD for Engineering Applications	2
MECH ENG 4054 Introduction to Biomedical Engineering.....	2
MECH ENG 4055 Stresses in Plates and Shells ...	2
MECH ENG 4057 Biomechanical Engineering.....	2
MECH ENG 4059 Finite Element Analysis of Structures	2
MECH ENG 4061 Corrosion: Principles & Prevention	2
MECH ENG 4062 Aircraft Design.....	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 - it is strongly recommended that students undertake Law of Contract 2I and Law of Torts 2 as 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

Note To students commencing this program in 2008

This program is currently under review, and there may be changes to the structure and the courses offered in this program from 2009. While the courses listed at Level I reflect the courses available in 2008, courses listed at higher levels should be considered as indicative only.

Students commencing study in 2008 will be provided with access to the revised Academic Program Rules for this program as part of their enrolment process. The revised Rules will be available from the following web address:
www.adelaide.edu.au/calendar

To qualify for the award of the degree of B.E.(Mech.) and degree of LL.B., candidates are required to complete satisfactorily courses below:

First Year (25 units)

CHEM ENG 1008 Engineering Computing.....	3
CHEM ENG 1009 Materials I.....	3
C&ENVENG 1010 Engineering Mechanics - Statics.....	3
<i>either</i>	
MATHS 1011 Mathematics IA.....	3
MATHS 1012 Mathematics IB.....	3
<i>or</i>	
MATHS 1013 Mathematics IMA*.....	3
MATHS 1011 Mathematics IA *.....	3
MECH ENG 1006 Design Graphics and Communication M.....	3
MECH ENG 1007 Engineering Mechanics - Dynamics.....	3

* Students who have not taken SACE Stage 2 Specialist Maths will be required to take MATHS 1013 Mathematics IM A and MATHS 1011 Mathematics IA in lieu of MATHS 1011/1012 Mathematics I A/B. Such students must also complete MATHS 1012 Mathematics 1B. The satisfactory completion of Mathematics 1B is in addition to the normal requirements of the B.E.

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
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
Law courses.....	8

Third Year (24 units)

ELEC ENG 3023 Electric Energy Systems M.....	2
Law electives*.....	8
MECH ENG 2019 Dynamics & Control I.....	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 II.....	3

* Students should consult the Law School at enrolment for advice on electives offered

Fourth Year (26 units)

Law Elective.....	4
MECH ENG 3016 Aeronautical Engineering.....	2

MECH ENG 3017 Sustainability and the Environment.....	2
MECH ENG 3020 Heat Transfer.....	2
MECH ENG 3028 Dynamics & Control II.....	3
MECH ENG 4007A /B Mechanical Honours Project Level IV #.....	8
<i>or</i>	
MECH ENG 4041 A/B Mechanical Design Project Level IV #.....	8
Mechanical Engineering Electives* to the value of 4 units.....	4

* 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)

CHEM 1100 Chemistry IA.....	3
<i>and</i>	
CHEM 1200 Chemistry IB.....	3
<i>or</i>	
PHYSICS 1100 Physics IA.....	3
<i>and</i>	
PHYSICS 1200 Physics IB.....	3
C&ENVENG 1010 Engineering Mechanics - Statics.....	3
<i>either</i>	
MATHS 1011 Mathematics IA.....	3
MATHS 1012 Mathematics IB.....	3
<i>or</i>	
MATHS 1011 Mathematics IA*.....	3
MATHS 1013 Mathematics IMA*.....	3
MECH ENG 1006 Design Graphics and Communication M.....	3

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 1006 Design Graphics and Communication M.....	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 (24 units).....	
	MECH ENG 2011 Mechatronics IM	2
	MECH ENG 3017 Sustainability and the Environment	2
	MECH ENG 3027 Engineering Systems 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	2
	MECH ENG 3020 Heat Transfer	2
	MECH ENG 4007A /B Mechanical Honours Project Level IV #	8
	<i>or</i>	
	MECH ENG 4041 A/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
	# <i>Students accepted into the Honours stream will take Mechanical Honours Project Level IV and other students will take Mechanical Design Project Level IV</i>	
	* <i>Of the four electives chosen, at least three must be from the School of Mechanical Engineering.</i>	
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) & B.A, candidates are required to complete satisfactorily courses as indicated below:	

First Year (24 units)	
Level I Arts course(s) to the value of 6 units	6
C&ENVENG 1010 Engineering Mechanics - Statics	3
CHEM ENG 1008 Engineering Computing.....	3
<i>either</i>	
MATHS 1011 Mathematics IA	3
MATHS 1012 Mathematics IB	3
<i>or</i>	
MATHS 1013 Mathematics IMA*	3
MATHS 1011 Mathematics IA*	3
MECH ENG 1007 Engineering Mechanics - Dynamics	3
MECH ENG 1006 Design Graphics and Communication M.....	3
* <i>Students who have not taken SACE Stage 2 Specialist Maths will be required to take MATHS 1013 Mathematics IM A and MATHS 1011 Mathematics IA in lieu of MATHS 1011/1012 Mathematics I A/B. Such students must also complete MATHS 1012 Mathematics 1B. The satisfactory completion of Mathematics 1B is in addition to the normal requirements of the B.E.</i>	
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 1006 Design Graphics and Communication M.....	3
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 I.....	3
MECH ENG 2020 Materials & Manufacturing	3
MECH ENG 3027 Engineering Systems Design & Communication.....	3
MECH ENG 3031 Thermo-Fluids 2.....	3
Fourth Year (24 units)	
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 Sustainability and the Environment.....	2
MECH ENG 3020 Heat Transfer	2

MECH ENG 3028 Dynamics and Control II.....	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
<i>or</i>	
MECH ENG 4041 A/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
# <i>Students accepted into the Honours stream will take Mechanical Honours Project Level IV and other students will take Mechanical Design Project Level IV</i>	
* <i>Of the seven electives selected, not less than five must be those offered by the School of Mechanical Engineering.</i>	

5 Program of study for the direct entry B.E.(Mechanical)/B.Ec. program

Note To students commencing this program in 2008

This program is currently under review, and there may be changes to the structure and the courses offered in this program from 2009. While the courses listed at Level I reflect the courses available in 2008, courses listed at higher levels should be considered as indicative only.

Students commencing study in 2008 will be provided with access to the revised Academic Program Rules for this program as part of their enrolment process. The revised Rules will be available from the following web address: www.adelaide.edu.au/calendar

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 1010 Engineering Mechanics - Statics	3
CHEM ENG 1008 Engineering Computing.....	3
CHEM ENG 1009 Materials I.....	3
<i>either</i>	
MATHS 1011 Mathematics IA	3
MATHS 1012 Mathematics IB	3
<i>or</i>	
MATHS 1013 Mathematics IMA*	3
MATHS 1011 Mathematics IA *	3
MECH ENG 1006 Design Graphics and Communication M.....	3
MECH ENG 1007 Engineering Mechanics - Dynamics	3

* *Students who have not taken SACE Stage 2 Specialist Maths will be required to take MATHS 1013 Mathematics IM A and MATHS 1011 Mathematics IA in lieu of MATHS*

1011/1012 Mathematics I A/B. Such students must also complete MATHS 1012 Mathematics 1B. The satisfactory completion of Mathematics 1B is in addition to the normal requirements of the B.E.

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 1008 Engineering Computing 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 I.....	3
MECH ENG 2021 Thermo-Fluids I.....	3
Third Year (25 units)	
ECON 2009 Consumers, Firms and Markets II.....	4
ECON 2011 Macroeconomic Theory & Policy II	4
ELEC ENG 3023 Electric Energy Systems M.....	2
MECH ENG 2020 Materials & Manufacturing	3
MECH ENG 3027 Engineering Systems 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
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 (22 units)	
MECH ENG 3016 Aeronautical Engineering	2
MECH ENG 3017 Sustainability and the Environment	2
MECH ENG 3020 Heat Transfer	2
MECH ENG 4007A /B Mechanical Honours Project Level IV #	8

or

MECH ENG 4041 A/B Mechanical Design Project Level IV #	8
MECH ENG 4038 Engineering Management and Professional Practice.....	2

Plus at least 6 units of Mechanical Engineering elective* courses from the list above (may not present MECH ENG 4039 Finance for Engineers) 6

* *Of the 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

Note To students commencing this program in 2008

This program is currently under review, and there may be changes to the structure and the courses offered in this program from 2009. While the courses listed at Level I reflect the courses available in 2008, courses listed at higher levels should be considered as indicative only.

Students commencing study in 2008 will be provided with access to the revised Academic Program Rules for this program as part of their enrolment process. The revised Rules will be available from the following web address:
www.adelaide.edu.au/calendar

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 1010 Engineering Mechanics Statics3	
CHEM ENG 1008 Engineering Computing.....	3
CHEM ENG 1009 Materials I.....	3
ECON 1004 Principles of Microeconomics I.....	3

either

MATHS 1011 Mathematics IA.....	3
MATHS 1012 Mathematics IB.....	3

or

MATHS 1013 Mathematics IMA*	3
MATHS 1011 Mathematics IA*	3
MECH ENG 1006 Design Graphics and Communication M.....	3
MECH ENG 1007 Engineering Mechanics - Dynamics	3

* *Students who have not taken SACE Stage 2 Specialist Maths will be required to take MATHS 1013 Mathematics IM A and MATHS 1011 Mathematics IA in lieu of MATHS 1011/1012 Mathematics I A/B. Such students must also complete MATHS 1012 Mathematics 1B. The satisfactory completion of Mathematics 1B is in addition to the normal requirements of the B.E.*

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 1008 Engineering Computing 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
ECON 1009 International Finance Institutions and Markets I.....	3
MECH ENG 2011 Mechatronics IM	2
MECH ENG 2018 Design Practice.....	4
MECH ENG 2019 Dynamics & Control I.....	3
MECH ENG 2020 Materials & 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 3023 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 II.....	3
STATS 2002 Introduction to Mathematical Statistics II	2
STATS 2003 Statistical Practice II	2

Fourth Year (25 units)

CORPFIN 3009 Portfolio Theory and Management III.....	4
MECH ENG 3016 Aeronautical Engineering I	2
MECH ENG 3027 Engineering Systems Design & Communication.....	3
MECH ENG 3029 Manufacturing Engineering.....	2
MECH ENG 3030 Structural Design & Solid Mechanics	3
MECH ENG 3031 Thermo-Fluids II.....	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, including APP MTH 3011 Financial Modelling Techniques III.....

APP MTH 3011 Financial Modelling Techniques III.....	4
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or

CORPFIN 3013 Options, Futures and Risk Management III.....	4
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Fifth Year (24 units)

MECH ENG 3017 Sustainability and the Environment	2
MECH ENG 3020 Heat Transfer	2
MECH ENG 4007A /B Mechanical Honours Project Level IV #	8

or

MECH ENG 4041 A/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 6 units (may not present MECH ENG 4039 Finance for Engineers)*	6

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.

6.5.12 Mechatronic Engineering

Note To students commencing this program in 2008

This program is currently under review, and there may be changes to the structure and the courses offered in this program from 2009. While the courses listed at Level I reflect the courses available in 2008, courses listed at higher levels should be considered as indicative only.

Students commencing study in 2008 will be provided with access to the revised Academic Program Rules for this program as part of their enrolment process. The revised Rules will be available from the following web address: www.adelaide.edu.au/calendar

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 1010 Engineering Mechanics - Statics	3
CHEM ENG 1008 Engineering Computing.....	3
CHEM ENG 1009 Materials I.....	3
MECH ENG 1006 Design Graphics and Communication M.....	3
MECH ENG 1007 Engineering Mechanics - Dynamics	3
ELEC ENG 1009 Electrical & Electronic Engineering IA	2
MATHS 1011 Mathematics IA.....	3
MATHS 1012 Mathematics IB	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 & 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
ENG 3002 Engineering Communication ESL*	2
MECH ENG 3014 Mechatronics II.....	2
MECH ENG 3017 Sustainability and the Environment	2
MECH ENG 3020 Heat Transfer	2
MECH ENG 3027 Engineering Systems 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 4019 A/B Mechatronics Honours Project Level IV #	8
or	
MECH ENG 4050 A/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
MECH ENG 4053 Advanced Digital Control.....	2
Engineering Electives to the value of 4 units	4

* 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 4 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 4004 Engineering Acoustics	2
MECH ENG 4020 Advanced Vibrations	2
MECH ENG 4023 Advanced Topics in Fluid Mechanics	2
MECH ENG 4024 Materials Selection and Failure Analysis	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 4045 Advanced Manufacturing and Quality Systems	2
MECH ENG 4046 CFD for Engineering Application	2
MECH ENG 4061 Corrosion: Principles & Prevention	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:

- 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.
- 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 (27 units)
Level I Art course(s) to the value of 6 units 6
C&ENVENG 1010 Engineering Mechanics - Statics 3
CHEM ENG 1008 Engineering Computing 3
ELEC ENG 1009 Electrical and Electronic Engineering IA 3
MECH ENG 1006 Design Graphics and Communication M 3

MECH ENG 1007 Engineering Mechanics - Dynamics	3
<i>either</i>	
MATHS 1011 Mathematics IA	3
MATHS 1012 Mathematics IB	3
<i>or</i>	
MATHS 1013 Mathematics IMA*	3
MATHS 1011 Mathematics IA*	3

* Students who have not taken SACE Stage 2 Specialist Maths will be required to take MATHS 1013 Mathematics IM A and MATHS 1011 Mathematics IA in lieu of MATHS 1011/1012 Mathematics I A/B. Such students must also complete MATHS 1012 Mathematics 1B. The satisfactory completion of Mathematics 1B is in addition to the normal requirements of the B.E

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 1006 Design Graphics and Communication M	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)

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 Sustainability and the Environment	2
MECH ENG 3020 Heat Transfer	2
MECH ENG 3027 Engineering Systems 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 4019 A/B Mechatronics Honours	
Project Level IV #	8
or	
MECH ENG 4050 A/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
MECH ENG 4053 Advanced Digital Control.....	2
Engineering Elective* courses to the value of at	
least 4 units from the list above.....	4
# <i>Students accepted into the Honours stream will take</i>	
<i>Mechatronics Honours Project Level IV and other students</i>	
<i>will take Mechatronics Design Project Level IV</i>	
* <i>Of the three elective courses chosen, at least two must be</i>	
<i>offered by the School of Mechanical Engineering.</i>	

6.5.13 Mining Engineering

Note To students commencing this program in 2008

This program is currently under review, and there may be changes to the structure and the courses offered in this program from 2009. While the courses listed at Level I reflect the courses available in 2008, courses listed at higher levels should be considered as indicative only.

Students commencing study in 2008 will be provided with access to the revised Academic Program Rules for this program as part of their enrolment process. The revised Rules will be available from the following web address:
www.adelaide.edu.au/calendar

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 1008 Engineering Planning	
& Design IA	3
C&ENVENG 1010 Engineering Mechanics	
- Statics	3
C&ENVENG 1012 Engineering Modelling	
& Analysis IA	3
C&ENVENG 1011 Introduction to Mining	
Engineering IA	3
GEOLOGY 1104 Geology for Engineers.....	3
MATHS 1011 Mathematics IA	3
MATHS 1012 Mathematics IB	3
MECH ENG 1007 Engineering Mechanics	
- Dynamics	3

Level II

APP MTH 2010 Differential Equations and	
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 2025 Strength of Materials IIA	3
C&ENVENG 2026 Environmental Engineering	2
C&ENVENG 2032 Structural Design IIA.....	2
C&ENVENG 2035 Water Engineering II S2.....	2
C&ENVENG 2034 Structural Design IIB.....	2
GEOLOGY 2009 Economic & Mine Geology.....	4

Level III*

Mining courses to the value of 18 units	18
Electives to the value of 6 units chosen from the	
list provided below.	

Level IV*

Mining courses to the value of 18 units	18
Electives to the value of 6 units chosen from the	
list provided below.	

Electives

Surface Mining Systems	3
Underground Mining Systems	3
Mine Ventilation II.....	3
Advanced Mine Geotechnical Engineering.....	3
Minerals Processing I	3
Minerals Processing II	3
Mine Equipment Optimisation	3
Socio-Environmental Aspects of Mining.....	3

* Not available in 2008.

Notes:

- 1 Program of study for the direct entry
B.E.(Mining)/B.Ma. & Comp. Sc.

Note To students commencing this program in 2008

This program is currently under review, and there may be changes to the structure and the courses offered in this program from 2009. While the courses listed at Level I reflect the courses available in 2008, courses listed at higher levels should be considered as indicative only.

Students commencing study in 2008 will be provided with access to the revised Academic Program Rules for this program as part of their enrolment process. The revised Rules will be available from the following web address:
www.adelaide.edu.au/calendar

First Year (24 units)

C&ENVENG 1008 Engineering Planning	
and Design IA	3
C&ENVENG 1010 Engineering Mechanics	
- Statics	3
C&ENVENG 1012 Engineering Modelling	
& Analysis IA	3

C&ENVENG 1011 Introduction to Mining Engineering IA	3
GEOLOGY 1104 Geology for Engineers	3
MECH ENG 1007 Engineering Mechanics - Dynamics	3
* Students who have not taken SACE Stage 2 Specialist Maths will be required to take MATHS 1013 Mathematics IM A and MATHS 1011 Mathematics IA in lieu of MATHS 1011/1012 Mathematics I A/B. Such students must also complete MATHS 1012 Mathematics 1B. The satisfactory completion of Mathematics 1B is in addition to the normal requirements of the B.E	
Second Year (25 units)	
APP MTH 2000 Differential Equations & Fourier Series.....	2
APP MTH 2004 Laplace Transforms and Probability and Statistical Methods.....	2
C&ENVENG 2006 Geotechnical Engineering II.....	2
C&ENVENG 2014 Engineering Modelling & Analysis II.....	2
C&ENVENG 2015 Construction & 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
GEOLOGY 2009 Economics & Mine Geology	2
Third Year (24 units)*	
Mathematical course electives	6
Mining courses.....	18
Fourth Year (24 units) *	
Mathematical course electives at Level III.....	21
Mining courses.....	3
Fifth Year (24 units) *	
Electives to value of 6 units	6
Mining courses.....	18
* No entry in 2008.	
2 Program of study for the direct entry B.E.(Mining)/B.Sc. program	

Note To students commencing this program in 2008

This program is currently under review, and there may be changes to the structure and the courses offered in this program from 2009. While the courses listed at Level I reflect the courses available in 2008, courses listed at higher levels should be considered as indicative only.

Students commencing study in 2008 will be provided with access to the revised Academic Program Rules for this program as part of their enrolment process. The revised Rules will be available from the following web address:

www.adelaide.edu.au/calendar

First Year (24 units)

C&ENVENG 1010 Engineering Mechanics - Statics	3
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C&ENVENG 1011 Introduction to Mining Engineering IA	3
GEOLOGY 1100 Earth's Interior I.....	3
GEOLOGY 1103 Earth Systems	3
MATHS 1011 Mathematics IA*	3
or	
MATHS 1013 Mathematics IMA*	3
MATHS 1012 Mathematics IB*	3
or	
MATHS 1011 Mathematics IA*	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 Mathematics IM A and MATHS 1011 Mathematics IA in lieu of MATHS 1011/1012 Mathematics I A/B. Such students must also complete MATHS 1012 Mathematics 1B. The satisfactory completion of Mathematics 1B is in addition to the normal requirements of the B.E	
Second Year (26 units)	
APP MTH 2010 Differential Equations & Statistical Methods (Civil).....	3
C&ENVENG 2006 Geotechnical Engineering II.....	2
C&ENVENG 2015 Construction & 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
GEOLOGY 2008 Landscape Processes & Environments II.....	4
GEOLOGY 2005 Geology for Engineers.....	2
Third Year (26 units)*	
GEOLOGY 2006 Igneous and Metamorphic Geology II.....	4
GEOLOGY 2007 Sedimentary and Structural Geology II.....	4
Further Mining courses ⁺	18
Fourth Year (24 units)*	
GEOLOGY 3008 Theoretical Geophysics III	3
GEOLOGY 3010 Remote Sensing	3
GEOLOGY 3013 Tectonics III.....	3
GEOLOGY 3014 Surficial Geology III.....	3
GEOLOGY 3016 Igneous and Metamorphic 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)*	
⁺ Contact Faculty for information on Mining courses.	
* No entry in 2008.	

6.5.14 Petroleum Engineering

Note To students commencing this program in 2008

This program is currently under review, and there may be changes to the structure and the courses offered in this program from 2009. While the courses listed at Level I reflect the courses available in 2008, courses listed at higher levels should be considered as indicative only.

Students commencing study in 2008 will be provided with access to the revised Academic Program Rules for this program as part of their enrolment process. The revised Rules will be available from the following web address:
www.adelaide.edu.au/calendar

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 1012 Engineering Modelling and Analysis IA	3
CHEM 1100 Chemistry IA.....	3
CHEM ENG 1007 Process Engineering I.....	3
MATHS 1011 Mathematics IA.....	3
MATHS 1012 Mathematics IB.....	3
PETROENG 1005 Introduction to the Petroleum Industry & Petroleum Geoscience.....	3
PETROENG 1006 Introduction to Petroleum Engineering.....	3
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 1009 Electrical & Electronic Engineering IA	3
MECH ENG 2021 Thermo-fluids I	3
PETROENG 2001 Reservoir Thermodynamics and Fluid Properties.....	3
PETROENG 2005 Sedimentology & Stratigraphy...	3
PETROENG 2009 Formation Evaluation, Petrophysics and Rock Properties.....	3
PETROENG 2010 Drilling Engineering	3

Level III

ENG 3002 Engineering Communication ESL*	2
PETROENG 3001 Reservoir Simulation III.....	3
PETROENG 3005 Reservoir Characterisation and Modelling III	3
PETROENG 3007 Well Testing III and Pressure Transient Analysis III.....	3
PETROENG 3019 Structural Geology and Seismic Methods.....	3
PETROENG 3020 Production Engineering and Optimisation	3

PETROENG 3023 Well Completion III	3
PETROENG 3024 Petroleum Exploration and Management	3
PETROENG 3025 Reservoir Engineering	3

* Available only to students whose native language is not English - may be presented in lieu of 2 units, seek School advice.

Level IV - Reservoir Option*

PETROENG 4002 Enhanced Oil Recovery	3
PETROENG 4003 Development Geology IV	2
PETROENG 4004A/B Petroleum Engineering Honours Project	6
or	
PETROENG 4020A/B Petroleum Engineering Design Project	6
PETROENG 4007 Oil and Gas Resources & Reserves	2
PETROENG 4009 Integrated Reservoir Management IV	2
PETROENG 4022 Integrated Field Development Planning and Economics Project IV	3
PETROENG 4024 Decision-Making under Uncertainty IV	2
PETROENG 4025 Gas Fields Optimisation IV.....	2
PETROENG 4028 Project Management	2

* Well & Facilities options not offered in 2008.

Notes:

- 1 Program of study for the direct entry B.E.(Petroleum)/B.E.(Chemical)

Note To students commencing this program in 2008

This program is currently under review, and there may be changes to the structure and the courses offered in this program from 2009. While the courses listed at Level I reflect the courses available in 2008, courses listed at higher levels should be considered as indicative only.

Students commencing study in 2008 will be provided with access to the revised Academic Program Rules for this program as part of their enrolment process. The revised Rules will be available from the following web address:
www.adelaide.edu.au/calendar

To qualify for the combined award of B.E.(Petroleum) & 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 1007 Process Engineering I.....	3
CHEM ENG 1008 Engineering Computing.....	3
either	

MATHS 1011 Mathematics IA.....	3
MATHS 1012 Mathematics IB.....	3
or	

MATHS 1013 Mathematics IMA*	3
MATHS 1011 Mathematics IA*	3
PETROENG 1005 Introduction to the Petroleum Industry and Petroleum Geoscience	3
PETROENG 1006 Introduction to Petroleum Engineering	3
* Students who have not taken SACE Stage 2 Specialist Maths will be required to take MATHS 1013 Mathematics IM A and MATHS 1011 Mathematics IA in lieu of MATHS 1011/1012 Mathematics I A/B. Such students must also complete MATHS 1012 Mathematics 1B. The satisfactory completion of Mathematics 1B is in addition to the normal requirements of the B.E.	
Second Year (26 units)	
APP MTH 2000 Differential Equations & Fourier Series	2
APP MTH 2004 Numerical Methods in Engineering (Chemical)	2
CHEM ENG 1010 Professional Practice I	3
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 & Process Engineering	2
PETROENG 2005 Sedimentology & Stratigraphy	3
PETROENG 2009 Formation Evaluation, Petrophysics and Rock Properties	3
PETROENG 2010 Drilling Engineering	3
Third Year (25 units)	
CHEM ENG 3003 A/B Chemical Engineering Projects III	4
CHEM ENG 3005 Separation Processes	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
PETROENG 3001 Reservoir Simulation	3
PETROENG 3005 Reservoir Characterisation & Modelling III	3
PETROENG 3024 Petroleum Exploration & Management	3
PETROENG 3025 Reservoir Engineering	3
Fourth Year (24 units)	
CHEM ENG 4003 Process Dynamics & 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).	
* See Chemical Engineering electives above	
Fifth Year (24 units)	
Reservoir Option	
PETROENG 4002 Enhanced Oil Recovery	3
PETROENG 4004A/B Petroleum Engineering Honours Project	6
or	
PETROENG 4020A/B Petroleum Engineering Design Project	6
PETROENG 4022 Integrated Field Development Planning and Economic Project IV	3
PETROENG 4024 Decision Making Under Uncertainty	2
Plus PETROENG electives to the value of 10 units selected from:	
PETROENG 3007 Well Testing & Pressure Transient Analysis	3
PETROENG 4003 Development Geology	2
PETROENG 4007 Oil & Gas Resources & Reserves	2
PETROENG 4009 Integrated Reservoir Management	2
PETROENG 4025 Gas Fields Optimisation	2
PETROENG 4028 Project Management	2

2 Program of study for the direct entry B.E.(Petroleum)/B.E.(Civil & Environmental)

Note To students commencing this program in 2008

This program is currently under review, and there may be changes to the structure and the courses offered in this program from 2009. While the courses listed at Level I reflect the courses available in 2008, courses listed at higher levels should be considered as indicative only.

Students commencing study in 2008 will be provided with access to the revised Academic Program Rules for this program as part of their enrolment process. The revised Rules will be available from the following web address:
www.adelaide.edu.au/calendar

To qualify for the combined award 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 1008 Engineering Planning & Design IA	3
C&ENVENG 1010 Engineering Mechanics - Statics	3
C&ENVENG 1012 Engineering Modelling and Analysis IA	3
ENV BIOL 1002 Ecological Issues.....	3
MATHS 1011 Mathematics IA	3
MATHS 1012 Mathematics IB	3
<i>or</i>	
MATHS 1013 Mathematics IMA*	3
MATHS 1011 Mathematics IA*	3
PETROENG 1005 Introduction to the Petroleum Industry and Petroleum Geoscience.....	3
PETROENG 1006 Introduction to Petroleum Engineering.....	3
* Students who have not taken SACE Stage 2 Specialist Maths will be required to take MATHS 1013 Mathematics IM A and MATHS 1011 Mathematics IA in lieu of MATHS 1011/1012 Mathematics I A/B. Such students must also complete MATHS 1012 Mathematics 1B. The satisfactory completion of Mathematics 1B is in addition to the normal requirements of the B.E	
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 2035 Strength of Materials IIA	2
PETROENG 2001 Reservoir Thermodynamics and Fluid Properties	3
PETROENG 2005 Sedimentology & Stratigraphy	3
PETROENG 2009 Formation Evaluation, Petrophysics and Rock Properties.....	3
PETROENG 2010 Drilling Engineering	3
Third Year (26 units)	
C&ENVENG 2014 Engineering Modelling & Analysis II.....	2
C&ENVENG 3009 Environmental Engineering and Design III.....	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
CHEM ENG 3011 Transport Process in the Environment.....	2
PETROENG 3001 Reservoir Simulation III.....	3

PETROENG 3005 Reservoir Characterisation & Modelling	3
PETROENG 3019 Structural Geology & Seismic Methods.....	3
PETROENG 3020 Production Engineering and Optimisation	3
PETROENG 3025 Reservoir Engineering	3
Fourth Year (24 units)	
C&ENVENG 4037 Introduction to Environmental Law	3
C&ENVENG 4005A/B Civil & Environmental Research Project #	6
C&ENVENG 4034 Civil Engineering Management IV	3
Specialisations to the value of 12 units	12
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 Option*	
PETROENG 4004A/B Petroleum Engineering Honours Project.....	6
<i>or</i>	
PETROENG 4020A/B Petroleum Engineering Design Project	6
PETROENG 4007 Oil & Gas Resources & Reserves	2
PETROENG 4009 Integrated Reservoir Management IV	3
PETROENG 4022 Integrated Field Development Planning and Economic Project IV	3
PETROENG 4024 Decision-Making Under Uncertainty IV	2
Plus PETROENG electives to the value of 11 units from the following:	
PETROENG 3007 Well Testing & Pressure Transient Analysis	3
PETROENG 3023 Well Completions	3
PETROENG 4002 Enhanced Oil Recovery	3
PETROENG 4003 Development Geology.....	2
PETROENG 4009 Integrated Reservoir Management	2
PETROENG 4025 Gas Fields Optimisation	2
PETROENG 4028 Project Management	2

3 Program of study for the direct entry
B.E.(Petroleum)/B.E.(Civil & Structural)

Note To students commencing this program in 2008

This program is currently under review, and there may be changes to the structure and the courses offered in this program from 2009. While the courses listed at Level I reflect the courses available in 2008, courses listed at higher levels should be considered as indicative only.

Students commencing study in 2008 will be provided with access to the revised Academic Program Rules for this program as part of their enrolment process. The revised Rules will be available from the following web address:
www.adelaide.edu.au/calendar

To qualify for the combined award of B.E.(Petroleum) and B.E.(Civil & Structural), candidates are required to complete satisfactorily the courses as indicated below:

First Year (24 units)

C&ENVENG 1008 Engineering Planning & Design IA	3
C&ENVENG 1009 Civil & Environmental Engineering IA	3
C&ENVENG 1010 Engineering Mechanics - Statics	3
C&ENVENG 1012 Engineering Modelling & Analysis IA	3
MATHS 1011 Mathematics IA	3
MATHS 1012 Mathematics IB	3
<i>or</i>	
MATHS 1013 Mathematics IMA*	3
MATHS 1011 Mathematics IA*	3
PETROENG 1005 Introduction to the Petroleum Industry and Petroleum Geoscience	3
PETROENG 1006 Introduction to Petroleum Engineering	3

* Students who have not taken SACE Stage 2 Specialist Maths will be required to take MATHS 1013 Mathematics IM A and MATHS 1011 Mathematics IA in lieu of MATHS 1011/1012 Mathematics I A/B. Such students must also complete MATHS 1012 Mathematics 1B. The satisfactory completion of Mathematics 1B is in addition to the normal requirements of the B.E.

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 2005 Sedimentology & Stratigraphy	3

PETROENG 2009 Formation Evaluation, Petrophysics and Rock Properties	3
PETROENG 2010 Drilling Engineering	3
Third Year (26 units)	
C&ENVENG 3001 Structural Mechanics IIIA	3
C&ENVENG 3005 Structural Design III (Concrete)	3
C&ENVENG 3007 Structural Design III (Steel)	3
C&ENVENG 3012 Geotechnical Engineering Design III	3
C&ENVENG 3014 Water Engineering and Design IIB	2
PETROENG 3019 Structural Geology & Seismic Methods	3
PETROENG 3020 Production Engineering and Optimisation	3
PETROENG 3024 Petroleum Exploration & Management	3
PETROENG 3025 Reservoir Engineering	3

Fourth Year (24 units)

C&ENVENG 3013 Water Engineering and Design IIIA	2
C&ENVENG 4003 A/B Civil & Structural Engineering Research Project #	6
C&ENVENG 4034 Civil Engineering Management IV	3

Specialisations to the value of 12 units

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 specialisation 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 Option*

PETROENG 4004A/B Petroleum Engineering Honours Project	6
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or

PETROENG 4020A/B Petroleum Engineering Design Project	6
PETROENG 4007 Oil & Gas Resources and Reserves	2
PETROENG 4022 Integrated Field Development Planning and Economic Project IV	3
PETROENG 4024 Decision-Making Under Uncertainty IV	2

Plus PETROENG electives to the value of 11 units from the following:

PETROENG 3007 Well Testing & Pressure Transient Analysis	3
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PETROENG 3001 Reservoir Simulation.....	3	ELEC ENG 1009 Electrical & Electronic Engineering IA	3
PETROENG 4002 Enhanced Oil Recovery	3	PETROENG 2001 Reservoir Thermodynamics and Fluid Properties.....	3
PETROENG 4003 Development Geology.....	2	PETROENG 2005 Sedimentology & Stratigraphy....	3
PETROENG 4009 Integrated Reservoir Management	2	PETROENG 2009 Formation Evaluation, Petrophysics and Rock Properties.....	3
PETROENG 4025 Gas Fields Optimisation	2	PETROENG 2010 Drilling Engineering	3
PETROENG 4028 Project Management.....	2	Third Year (26 units)	
4 Program of study for the direct entry B.E.(Petroleum)/B.Sc.(Geology & Geophysics)		GEOLOGY 2006 Igneous and Metamorphic Geology II.....	4
Note To students commencing this program in 2008		GEOLOGY 2007 Sedimentology and Structural Geology II.....	4
This program is currently under review, and there may be changes to the structure and the courses offered in this program from 2009. While the courses listed at Level I reflect the courses available in 2008, courses listed at higher levels should be considered as indicative only.		PETROENG 3005 Reservoir Characterisation & Modelling	3
Students commencing study in 2008 will be provided with access to the revised Academic Program Rules for this program as part of their enrolment process. The revised Rules will be available from the following web address: www.adelaide.edu.au/calendar		PETROENG 3019 Structural Geology & Seismic Methods.....	3
To qualify for the combined award of B.E.(Petroleum) and B.Sc.(Geology & Geophysics), candidates are required to complete satisfactorily the courses as indicated below:		PETROENG 3020 Production Engineering & Optimisation	3
First Year (25 units)		PETROENG 3023 Well Completions	3
CHEM ENG 1007 Process Engineering I.....	3	PETROENG 3024 Petroleum Exploration & Management	3
GEOLOGY 1100 Earth's Interior I	3	PETROENG 3025 Reservoir Engineering	3
GEOLOGY 1103 Earth Systems	3	Fourth Year (24 units)	
<i>either</i>		GEOLOGY 3008 Theoretical Geophysics III	3
MATHS 1011 Mathematics IA	3	GEOLOGY 3010 Remote Sensing (S).....	3
MATHS 1012 Mathematics IB	3	GEOLOGY 3013 Tectonics III.....	3
<i>or</i>		GEOLOGY 3014 Environmental Geoscience Applications III	3
MATHS 1013 Mathematics IMA*	3	GEOLOGY 3016 Igneous and Metamorphic Geology III.....	3
MATHS 1011 Mathematics IA*	3	GEOLOGY 3017 Petroleum Exploration III	3
PETROENG 1005 Introduction to the Petroleum Industry and Petroleum Geosciences	3	GEOLOGY 3018 Mineral Exploration III.....	3
PETROENG 1006 Introduction to Petroleum Engineering.....	3	GEOLOGY 3019 Field Geoscience Program III	3
PHYSICS 1100 Physics IA.....	3	Fifth Year (24 units) - Reservoir Option	
<i>* Students who have not taken SACE Stage 2 Specialist Maths will be required to take MATHS 1013 Mathematics IM A and MATHS 1011 Mathematics IA in lieu of MATHS 1011/1012 Mathematics I A/B. Such students must also complete MATHS 1012 Mathematics 1B. The satisfactory completion of Mathematics 1B is in addition to the normal requirements of the B.E</i>		PETROENG 4004A/B Petroleum Engineering Honours Project.....	6
Second Year (24 units)		<i>or</i>	
APP MTH 2000 Differential Equations & Fourier Series.....	2	PETROENG 4020A/B Petroleum Engineering Design Project	6
APP MTH 2009 Numerical Analysis and Probability and Statistics	2	PETROENG 4007 Oil & Gas Resources and Reserves	2
C&ENVENG 2001 Stress Analysis (C).....	2	PETROENG 4022 Integrated Field Development Planning and Economic Project IV	3
CHEM ENG 1008 Engineering Computing.....	3	PETROENG 4024 Decision-Making Under Uncertainty IV	2
		Plus PETROENG electives to the value of 11 units from the following:	
		PETROENG 3007 Well Testing & Pressure Transient Analysis	3
		PETROENG 4002 Enhanced Oil Recovery	3
		PETROENG 4003 Development Geology.....	2

PETROENG 4009 Integrated Reservoir Management	2	PETROENG 2009 Formation Evaluation, Petrophysics and Rock Properties.....	3
PETROENG 4025 Gas Fields Optimisation	2	PETROENG 2010 Drilling Engineering	3
PETROENG 4028 Project Management	2	Third Year (25 units)	
5 Program of study for the direct entry B.E.(Petroleum)/B.E.(Mechanical)		MECH ENG 2019 Dynamics and Control I.....	3
Note To students commencing this program in 2008		MECH ENG 2020 Materials & Manufacturing.....	3
This program is currently under review, and there may be changes to the structure and the courses offered in this program from 2009. While the courses listed at Level I reflect the courses available in 2008, courses listed at higher levels should be considered as indicative only.			
Students commencing study in 2008 will be provided with access to the revised Academic Program Rules for this program as part of their enrolment process. The revised Rules will be available from the following web address: www.adelaide.edu.au/calendar			
To qualify for The combined award of B.E.(Petroleum) and B.E.(Mechanical), candidates are required to complete satisfactorily the courses as indicated below:			
First Year (25 units)			
C&ENVENG 1010 Engineering Mechanics - Statics	3	MECH ENG 3027 Engineering Systems Design and Communication.....	3
ELEC ENG 1009 Electrical & Electronic Engineering IA	3	MECH ENG 3030 Structural Design & Solid Mechanics	3
<i>either</i>		MECH ENG 3031 Thermo-Fluids II.....	3
MATHS 1011 Mathematics IA.....	3	PETROENG 3022 Reservoir Engineering	3
MATHS 1012 Mathematics IB.....	3	PETROENG 3023 Well Completions	3
<i>or</i>		PETROENG 3024 Petroleum Exploration & Management	3
MATHS 1013 Mathematics IMA*	3	Fourth Year (26 units)	
MATHS 1011 Mathematics IA*	3	MECH ENG 2020 Materials & Manufacturing.....	3
MECH ENG 1006 Design Graphics and Communication M.....	3	MECH ENG 3020 Heat Transfer	2
MECH ENG 1007 Engineering Mechanics - Dynamics	3	MECH ENG 3028 Dynamics and Control II.....	3
PETROENG 1005 Introduction to the Petroleum Industry and Petroleum Geosciences	3	MECH ENG 4007 A/B Mechanical Honours Project Level IV #	8
PETROENG 1006 Introduction to Petroleum Engineering.....	3	<i>or</i>	
<i>* Students who have not taken SACE Stage 2 Specialist Maths will be required to take MATHS 1013 Mathematics IM A and MATHS 1011 Mathematics IA in lieu of MATHS 1011/1012 Mathematics I A/B. Such students must also complete MATHS 1012 Mathematics 1B. The satisfactory completion of Mathematics 1B is in addition to the normal requirements of the B.E</i>		MECH ENG 4041 A/B Design Project Level IV # ...	8
Second Year (24 units)		Mechanical Engineering Elective courses to the value of at least 10 units.....	10
APP MTH 2000 Differential Equations and Fourier Series.....	2	<i># Students accepted into the Honours stream will take Mechanical Project Level 4 and other students will take Design Project Level IV.</i>	
CHEM ENG 1009 Materials I.....	3	Fifth Year (24 units) - Reservoir Option	
MECH ENG 2002 Stress Analysis and Design	3	PETROENG 3020 Production Engineering & Optimisation	3
MECH ENG 2018 Design Practice.....	4	PETROENG 4004A/B Petroleum Engineering Honours Project.....	6
MECH ENG 2021 Thermo-Fluids I.....	3	<i>or</i>	
PETROENG 2005 Sedimentology & Stratigraphy....	3	PETROENG 4020A/B Petroleum Engineering Design Project	6
		PETROENG 4022 Integrated Field Development Planning and Economic Project IV	3
		PETROENG 4024 Decision-Making Under Uncertainty.....	2
		Plus PETROENG electives to the value of 10 units from the following:	
		PETROENG 3007 Well Testing & Pressure Transient Analysis	3
		PETROENG 4002 Enhanced Oil Recovery	3
		PETROENG 4003 Development Geology.....	2
		PETROENG 4007 Oil & Gas Resources & Reserves	2
		PETROENG 4009 Integrated Reservoir Management	2
		PETROENG 4025 Gas Fields Optimisation	2
		PETROENG 4028 Project Management.....	2

6.5.15 Pharmaceutical Engineering

Note To students commencing this program in 2008

This program is currently under review, and there may be changes to the structure and the courses offered in this program from 2009. While the courses listed at Level I reflect the courses available in 2008, courses listed at higher levels should be considered as indicative only.

Students commencing study in 2008 will be provided with access to the revised Academic Program Rules for this program as part of their enrolment process. The revised Rules will be available from the following web address:
www.adelaide.edu.au/calendar

Candidates are required to complete satisfactorily courses to the value of 24 units at each of Levels I, II, III and IV:

Level I

BIOLOGY 1101 Biology 1: Molecules, Genes & Cells.....	3
CHEM 1100 Chemistry IA.....	3
or	
CHEM 1101 Foundations of Chemistry IA ⁺	3
CHEM 1200 Chemistry IB.....	3
or	
CHEM 1201 Foundations of Chemistry IB	3
CHEM ENG 1006 Introduction to Pharmaceutical Engineering.....	3
CHEM ENG 1007 Process Engineering I.....	3
CHEM ENG 1009 Materials.....	3
MATHS 1011 Mathematics IA*	3
and	
MATHS 1012 Mathematics IB*	3
or	
MATHS 1013 Mathematics IMA*	3
and	
MATHS 1011 Mathematics IA*	3

+ Students with a SACE Chemistry subject achievement score of less than 13 will be required to take CHEM 1101 and CHEM 1201 in lieu of CHEM 1100 and CHEM 1200.

* Students who have not taken SACE Stage 2 Specialist Maths will be required to take MATHS 1013 Mathematics IM A and MATHS 1011 Mathematics IA in lieu of MATHS 1011/1012 Mathematics I A/B. Such students must also complete MATHS 1012 Mathematics 1B. The satisfactory completion of Mathematics 1B is in addition to the normal requirements of the B.E.

Level II

APP MTH 2000 Differential Equations and Fourier Series	2
BIOCHEM 2105 Biochemistry II (Biotech) A	4
BIOTECH 2005 Principles of Biotechnology 2	4
CHEM2104 Chemistry 2 AE	4
CHEM 2204 Chemistry IIBE	2

CHEM ENG 2000: Chemical Engineering Thermodynamics	2
CHEM ENG 2003 Introductory Process Fluid Mechanics	2
Pharmaceutical Engineering course.....	2

Level III

CHEM 3214 Medicinal & Biological Chemistry 3....	3
CHEM ENG 3017 Kinetics and Reactor Design	3
CHEM ENG 3018 Fluid and Particle Mechanics ...	3
CHEM 4008 Environmental Engineering.....	2
PHARM 2002 Drugs, Chemicals and Health.....	4
Plus Pharmaceutical Engineering courses to the value of 9 units	9

Level IV

CHEM ENG 3015 Process Control and Instrumentation	2
CHEM ENG 4008 Biochemical Engineering.....	3
CHEM ENG 4018 Industrial Economics and Management	2
PHARM 3009 Fundamentals of Drug Development.....	3
Plus Pharmaceutical Engineering courses to the value of 14 units	14

6.5.16 Software Engineering

Note To students commencing this program in 2008

This program is currently under review, and there may be changes to the structure and the courses offered in this program from 2009. While the courses listed at Level I reflect the courses available in 2008, courses listed at higher levels should be considered as indicative only.

Students commencing study in 2008 will be provided with access to the revised Academic Program Rules for this program as part of their enrolment process. The revised Rules will be available from the following web address:
www.adelaide.edu.au/calendar

Level I

COMP SCI 1003 Internet Computing*	3
COMP SCI 1008 Computer Science IA	3
COMP SCI 1009 Computer Science IB	3
ELEC ENG 1009 Electrical & Electronic Engineering IA	3
ELEC ENG 1010 Electrical & Electronic Engineering IB	3
MATHS 1011 Mathematics IA**	3
MATHS 1012 Mathematics IB **	3
STATS 1000 Statistical Practice I.....	3

* Students who have not taken SACE Stage 2 Specialist Maths will be required to take MATHS 1013 Mathematics IM A and MATHS 1011 Mathematics IA in lieu of MATHS 1011/1012 Mathematics I A/B. Such students must also complete MATHS 1012 Mathematics 1B. The satisfactory completion of Mathematics 1B is in addition to the normal requirements of the B.E.

Level II

COMP SCI 2000 Computer Systems	3
COMP SCI 2002 Database & Information Systems	3
COMP SCI 2004 Data Structures & Algorithms	3
COMP SCI 2005 Systems Programming in C and C++	3
COMP SCI 2006 Introduction to Software Engineering.....	3
ELEC ENG 3020 Embedded Computer Systems	3
PURE MTH 2000 Discrete Mathematics II.....	2
Approved ECMS Level II electives*	4

Level III

COMP SCI 3001 Computer Networks and Applications	3
COMP SCI 3002 Programming Techniques	3
COMP SCI 3004 Operating Systems	3
COMP SCI 3005 Computer Architecture	3
COMP SCI 3013 Event Driven Computing.....	3
COMP SCI 3015 A/B Software Engineering Group Project 1.....	6
Approved ECMS Level III elective*	3

Level IV

COMP SCI 4001 A/B Software Engineering Group Project 2.....	8
<i>or</i>	
COMP SCI 4002 A/B Software Engineering Honours Project #	8
COMP SCI 4023 Software Process Improvement	3
COMP SCI 4054 High Integrity Software Engineering.....	3
ELEC ENG 4038 Financial Management for Engineers.....	2
ELEC ENG 4040 Management and Professional Practice for Engineers	2
Approved ECMS elective*.....	6

* Electives to be chosen from nominated courses in Computer Science, Mathematics and Electrical Engineering

Students accepted into the Honours stream will take Software Engineering Honours Project and other students will take Software Engineering Project 2

Note (not forming part of the Academic Program Rules)

A graduate who qualifies for the Bachelor of Engineering (Software Engineering) will be considered to have qualified for a major in Computer Science.

6.5.17 Sports 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 1010 Engineering Mechanics - Statics	3
CHEM ENG 1008 Engineering Computing.....	3
CHEM ENG 1009 Materials	3
ELEC ENG 1009 Electrical & Electronic Engineering IA	3
MATHS 1011 Mathematics IA	3
MATHS 1012 Mathematics IB	3
MECH ENG 1006 Design Graphics and Communication M.....	3
MECH ENG 1007 Engineering Mechanics - Dynamics	3

Level II

MECH ENG 2002 Stress Analysis & Design.....	3
MECH ENG 2019 Dynamics and Control I.....	3
MECH ENG 2021 Thermo-Fluids I.....	3
Courses to the value of 15 units in the areas of: APP MTH Differential Equations & Probability & Statistics MECH ENG Design Practice MECH ENG Mechatronics MECH ENG Sports Engineering Physiology	

Level III

MECH ENG 3027 Engineering Systems Design & Communication	3
MECH ENG 3028 Dynamics & Control II.....	3
ENG 3002 Engineering Communication ESL*	2
Courses to the value of 18 units in the areas of: APP MTH Aerodynamics MECH ENG Manufacturing Engineering MECH ENG Sports Engineering MECH ENG Sports Materials MECH ENG Sustainability and the Environment Exercise Physiology and Biomechanics	

* Available only to students whose native language is not English; may be presented in lieu MECH ENG Computational Techniques for Engineering Applications at Level IV for students entering the program with no advanced standing.

Level IV

Courses in Mechanical Engineering in the areas of: Advanced Computer Aided Engineering Biomechanical Engineering CFD for Engineering Applications Engineering Management and Quality Systems Finite Element Analysis of Structures Sports Engineering Sports Engineering Project.	
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6.5.18 Sustainable Energy Engineering

Candidates are required to complete satisfactorily courses to the value of 24 units at each of Levels I, II, III and IV:

6.5.18.1 Sustainable Energy (Electrical)

Level I

C&ENVENG 1010 Engineering Mechanics - Statics	3
CHEM ENG 1008 Engineering Computing.....	3
CHEM ENG 1009 Materials I.....	3
ELEC ENG 1009 Electrical & Electronic Engineering IA	3
ELEC ENG 1010 Electrical & Electronic Engineering IB	3
MATHS 1011 Mathematics IA.....	3
MATHS 1012 Mathematics IB	3
MECH ENG 1007 Engineering Mechanics - Dynamics	3

Level II

ELEC ENG 2007 Signals and Systems.....	3
ELEC ENG 2008 Electronics II	3
MECH ENG 2021 Thermo-Fluids I.....	3

Courses to the value of 15 units in the areas of:

ELEC ENG Circuit Analysis
ELEC ENG Digital Systems
ELEC ENG Sustainable Energy Project
MATHS Differential Equations, Probability and Statistics
MATHS Vector Analysis, Complex Analysis and Laplace Transforms

Level III

ELEC ENG 3016 Control III.....	3
ELEC ENG 3021 Electrical Energy Systems	3
ENG 3002 Engineering Communication ESL*	2

Courses to the value of 18 units in the areas of:

APP MTH Aerodynamics
ELEC ENG Power Electronics and Drive Systems
ELEC ENG Power Systems
ELEC ENG Project Management for Sustainable Engineering
ELEC ENG Signal Processing III
MECH ENG Sustainability and the Environment

* Available only to students whose native language is not English. May be presented in lieu of an elective at Level IV for students undertaking the full 4 year program with no advanced standing.

Level IV

ELEC ENG 4036 A/B Design Project #	6
or	
ELEC ENG 4039 A/B Honours Project #	6

Courses to the value of 15 units in the areas of:

ELEC ENG Management & Professional Practice for Engineers
ELEC ENG Power Quality & Condition Monitoring
Energy Management Economics and Policy
Distributed Generation Technologies
Wind Turbine Design

and

Engineering elective courses to the value of at least 6 units.....6

Electives

Courses to the value of 9 units in the areas of:

DESST Architectural Issues & Renewable Energy
MECH ENG Heat Transfer and Thermodynamics
Frontier/Niche Technologies (Renewable Energy)

and

other electrical electives as allowed by Head of School.....3

Students accepted into the Honours stream will take Honours Project and other students will take Project.

6.5.18.2 Sustainable Energy (Mechanical)

Level I

C&ENVENG 1010 Engineering Mechanics - Statics	3
CHEM ENG 1008 Engineering Computing.....	3
CHEM ENG 1009 Materials I.....	3
Electrical and Electronic Engineering IA.....	3
MATHS 1011 Mathematics IA.....	3
MATHS 1012 Mathematics IB	3
MECH ENG 1006 Design Graphics & Communication	3
MECH ENG 1007 Engineering Mechanics - Dynamics	3

Level II

MECH ENG 2021 Thermo-Fluids I.....	3
MECH ENG 2019 Dynamics and Control I.....	3
MECH ENG 2002 Stress Analysis and Design.....	3

Courses to the value of 15 units in the areas of:

ELEC ENG Electrical Energy Systems
MATHS Differential Equations, Probability and Statistics
MATHS Vector Analysis, Complex Analysis and Laplace Transforms
MECH ENG Design Practice
MECH ENG Mechatronics 1M

Level III

ENG 3002 Engineering Communication ESL*	2
MECH ENG 3032 Microcontroller Programming	3

MECH ENG 3027 Engineering Systems Design and Communication3
 Courses to the value of 18 units in the areas of:
 APP MTH Aerodynamics
 DESST Architectural Issues & Sustainable Energy
 ELEC ENG Power Electronics & Drive Systems
 MECH ENG Heat Transfer & Thermodynamics
 MECH ENG Sustainability & the Environment
 Engineering Management, Economics & Policy
 * Available only to students whose native language is not English. May be presented in lieu of an elective at Level IV for students undertaking the full 4 year program with no advanced standing.

Level IV

Courses to the value of 18 units in the areas of:
 CHEM ENG Bio-Fuels
 MECH ENG Project on Sustainable Energy or
 MECH ENG Honours Project on Sustainable Energy #
 Wind Turbine Design
 Distributed Generation Technologies
 Frontier Technologies (Sustainable Energy)
 and
 Engineering elective courses to the value of at least 6 units6
 # Students accepted into the Honours stream will take Honours Project and other students will take Project.

Electives

Courses in the areas of:
 MECH ENG Advanced Digital Control
 MECH ENG Advanced Topics in Fluid Mechanics
 MECH ENG Environmental & Architectural Acoustics
 MECH ENG Fracture Mechanics
 MECH ENG Materials Selection & Failure Analysis
 Combustion Technology & Emissions Control

6.5.18.3 Sustainable Energy (Chemical)

Level I

CHEM 1100 Chemistry IA.....3
 CHEM 1200 Chemistry IB.....3
 CHEM ENG 1007 Process Engineering I.....3
 CHEM ENG 1008 Engineering Computing.....3
 CHEM ENG 1010 Professional Practice I3
 ELEC ENG 1009 Electrical and Electronic Engineering IA3
 MATHS 1011 Mathematics IA3
 MATHS 1012 Mathematics IB3

Level II

ELEC ENG 3021 Electrical Energy Systems3
 Courses to the value of 21 units in the areas of:
 CHEM ENG Chemical Engineering Thermodynamics
 CHEM ENG Introduction to Process Simulation
 CHEM ENG Process Engineering
 CHEM ENG Process Modelling & Computations
 CHEM ENG Professional Practice
 MATHS Differential Equations, Probability & Statistics

Level III

ENG 3002 Engineering Communication ESL*2
 Courses to the value of at least 21 units in the areas of:
 APP MTH Aerodynamics
 CHEM ENG Advanced Materials
 CHEM ENG Process Utilities
 CHEM ENG Professional Practice
 CHEM ENG Simulation & Concept Design
 ELEC ENG Energy Management, Economics & Policy
 ELEC ENG Power Electronics and Drive Systems
 MECH ENG Sustainability & the Environment

*Available only to students whose native language is not English. May be presented in lieu of an elective at Level IV for students undertaking the full 4 year program with no advanced standing.

Level IV

Courses to the value of 21 units in the areas of:
 CHEM ENG Plant Design Project (Sustainable Energy) or
 CHEM ENG Research Project (Sustainable Energy)#
 CHEM ENG Professional Practice
 Bio-fuels
 Distributed Generation Technologies
 Wind Turbine Design
 and
 Engineering elective courses to the value of at least 3 units.....3

Electives

CHEM ENG 4003 Dynamics and Control.....2
 and
 Courses in the areas of:
 CHEM ENG Combustion Processes
 DESST Architectural Issues & Renewable Energy
 Frontier/Niche Technologies (Renewable Energy)
 # Students accepted into the Honours stream will take Honours Project and other students will take Design Project.

6.5.19 Telecommunications Engineering

Note To students commencing this program in 2008

This program is currently under review, and there may be changes to the structure and the courses offered in this program from 2009. While the courses listed at Level I reflect the courses available in 2008, courses listed at higher levels should be considered as indicative only.

Students commencing study in 2008 will be provided with access to the revised Academic Program Rules for this program as part of their enrolment process. The revised Rules will be available from the following web address:
www.adelaide.edu.au/calendar

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 1009 Electrical and Electronic Engineering IA.....	3
ELEC ENG 1010 Electrical & Electronic Engineering IB.....	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 2010 A/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 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 3019 A/B Practical Electrical and Electronic Design III.....	3
ELEC ENG 3020 Embedded Computer Systems.....	3
ENG 3002 Engineering Communication ESL*.....	2

* 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 4036 A/B Design Project #.....	6
or	
ELEC ENG 4039 A/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 4033 Advanced Telecommunications.....	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.....	
ELEC ENG 4044 RF Engineering IV.....	2
ELEC ENG 4048 Automotive Electrical & Electronic Systems.....	2
ELEC ENG 4049 Analog Microelectronic Systems.....	3
ELEC ENG 4050 Systems Engineering.....	2
ELEC ENG 4051 Introduction to Electronic Defence Systems.....	2
PURE MTH 3018 Coding and Cryptology III.....	3

Students accepted into the Honours stream will take Honours Project and other students will take Design Project Level I.

* 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 1007 Law of Torts 2 4
 LAW 2117 Law of Contract 2 4
 Law electives - it is strongly recommended that students take Law of contract 2 and Law of Torts 2 as 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

Note To students commencing this program in 2008

This program is currently under review, and there may be changes to the structure and the courses offered in this program from 2009. While the courses listed at Level I reflect the courses available in 2008, courses listed at higher levels should be considered as indicative only.

Students commencing study in 2008 will be provided with access to the revised Academic Program Rules for this program as part of their enrolment process. The revised Rules will be available from the following web address:
www.adelaide.edu.au/calendar

To qualify for the combined award of B.E.(Telecomm.) and 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 1009 Electrical & Electronic Engineering IA 3
 LAW 1001 Introduction to Australian Law 4
either
 MATHS 1011 Mathematics IA 3
 MATHS 1012 Mathematics IB 3
or
 MATHS 1013 Mathematics IMA* 3
 MATHS 1011 Mathematics IA* 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 Mathematics IM A and MATHS 1011 Mathematics IA in lieu of MATHS 1011/1012 Mathematics I A/B. Such students must also complete MATHS 1012 Mathematics 1B. The satisfactory completion of Mathematics 1B is in addition to the normal requirements of the B.E*

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 & Algorithms 3
 ELEC ENG 1010 Electrical & Electronic Engineering IB 3
 ELEC ENG 2007 Signals and Systems 3
 LAW 1002 Law of Torts 4
 LAW 1003 Law of Contract 4
 STATS 2004 Laplace Transforms & Probability & 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 2010 A/B Practical Electronic Design II 3
 ELEC ENG 3015 Communications, Signals and Systems 3
 Law electives * 10

Fourth Year (27 units)

APP MTH 3016 Telecommunications Systems Modelling III 3
 COMP SCI 3006 Software Engineering & Project... 3
 ELEC ENG 3016 Control III 3
 ELEC ENG 3017 Digital Electronics 3
 ELEC ENG 3018 RF Engineering III 3
 ELEC ENG 3019 A/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 combined award 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 1009 Electrical & Electronic Engineering IA 3

either

MATHS 1011 Mathematics IA 3

MATHS 1012 Mathematics IB 3

or

MATHS 1013 Mathematics IMA* 3

MATHS 1011 Mathematics IA* 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 Mathematics IM A and MATHS 1011 Mathematics IA in lieu of MATHS 1011/1012 Mathematics I A/B. Such students must also complete MATHS 1012 Mathematics 1B. The satisfactory completion of Mathematics 1B is in addition to the normal requirements of the B.E.

Second Year (24 units)

Level I Arts course(s) to the value of 6 units 6

APP MTH 2000 Differential Equations & 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 2010 A/B Practical Electronic Design II 3

STATS 2004 Laplace Transforms & Probability & Statistical Methods 2

Third Year (23 units)

Level II Arts course/s 8

COMP SCI 2004 Data Structures & 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 & Project 3

ELEC ENG 3018 RF Engineering III 3

ELEC ENG 3019 A/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

Note To students commencing this program in 2008

This program is currently under review, and there may be changes to the structure and the courses offered in this program from 2009. While the courses listed at Level I reflect the courses available in 2008, courses listed at higher levels should be considered as indicative only.

Students commencing study in 2008 will be provided with access to the revised Academic Program Rules for this program as part of their enrolment process. The revised Rules will be available from the following web address: www.adelaide.edu.au/calendar

To qualify for the combined award of B.E.(Telecomm.) and 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 1009 Electrical & Electronic Engineering IA 3

either

MATHS 1011 Mathematics IA 3

MATHS 1012 Mathematics IB 3

or

MATHS 1013 Mathematics IMA* 3

MATHS 1011 Mathematics IA* 3

PHYSICS 1100 Physics IA.....	3
PHYSICS 1200 Physics IB.....	3
<i>* Students who have not taken SACE Stage 2 Specialist Maths will be required to take MATHS 1013 Mathematics IM A and MATHS 1011 Mathematics IA in lieu of MATHS 1011/1012 Mathematics I A/B. Such students must also complete MATHS 1012 Mathematics 1B. The satisfactory completion of Mathematics 1B is in addition to the normal requirements of the B.E</i>	
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 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 & Fourier Series.....	2
APP MTH 2002 Vector Analysis & Complex Analysis	2
COMP SCI 2004 Data Structures & 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 2010 A/B Practical Electronic Design II.....	3
STATS 2004 Laplace Transforms & Probability & Statistical Methods.....	2
Third Year (26 units)	
COMP SCI 2000 Computer Systems	3
ECON 2009 Consumers, Firms & Markets II.....	4
ECON 2011 Macroeconomic Theory & 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
COMMGMGT 2007 Organisational Behaviour II	4
COMP SCI 3006 Software Engineering & Project..	3
ELEC ENG 3018 RF Engineering III	3
ELEC ENG 3019 A/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 (25 units)	
COMP SCI 3001 Computer Networks & Applications	3
ELEC ENG 4035 Communications IV.....	2
ELEC ENG 4036A/B Design Project #	6
<i>or</i>	
ELEC ENG 4039A/B Honours Project #	6
ELEC ENG 4045 Signal Processing IV.....	2
ELEC ENG 4046 Telecommunications IV	2
STATS 4001 Reliability and Quality Control.....	2
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

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

Note To students commencing this program in 2008

This program is currently under review, and there may be changes to the structure and the courses offered in this program from 2009. While the courses listed at Level I reflect the courses available in 2008, courses listed at higher levels should be considered as indicative only.

Students commencing study in 2008 will be provided with access to the revised Academic Program Rules for this program as part of their enrolment process. The revised Rules will be available from the following web address:
www.adelaide.edu.au/calendar

To qualify for the combined award of B.E.(Telecomm.) and 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 1009 Electrical & Electronic Engineering IA	3
<i>either</i>	
MATHS 1011 Mathematics IA.....	3
MATHS 1012 Mathematics IB	3
<i>or</i>	
MATHS 1013 Mathematics IMA*	3
MATHS 1011 Mathematics IA*	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 Mathematics IM A and MATHS 1011 Mathematics IA in lieu of MATHS 1011/1012 Mathematics I A/B. Such students must also*

complete MATHS 1012 Mathematics 1B. The satisfactory completion of Mathematics 1B is in addition to the normal requirements of the B.E.

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 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 & Fourier Series.....2

APP MTH 2002 Vector Analysis & Complex Analysis2

COMP SCI 2004 Data Structures & Algorithms3

ECON 1000 Principles of Macroeconomics I.....3

ELEC ENG 2007 Signals & Systems.....3

ELEC ENG 2008 Electronics II.....3

ELEC ENG 2010 A/B Practical Electronic Design II.....3

ECON 1009 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 I3

COMP SCI 2000 Computer Systems3

CORPFIN 2006 Business Finance II4

ELEC ENG 2009 Engineering Electromagnetics3

ELEC ENG 3015 Communications, Signals & Systems3

ELEC ENG 3017 Digital Electronics3

ELEC ENG 3020 Embedded Computer Systems3

STATS 2002 Introduction to Mathematical Statistics II2

STATS 2003 Statistical Practice II.....2

Fourth Year (27 units)

APP MTH 3016 Telecommunications Systems Modelling III3

COMP SCI 3006 Software Engineering & Project.....3

ECON 2012 Financial Economics II.....4

ELEC ENG 3016 Control III.....3

ELEC ENG 3018 RF Engineering III.....3

ELEC ENG 3019 A/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 (23 units)

COMP SCI 3001 Computer Networks and Applications3

ELEC ENG 4035 Communications IV2

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 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 including:

CORPFIN 3009 Portfolio Theory & Management III4

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.

Graduate Attributes

Bachelor of Engineering in Aerospace Engineering

Bachelor of Engineering in Automotive Engineering

Bachelor of Engineering in Mechanical Engineering

Bachelor of Engineering in Mechatronic Engineering

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 synthesise 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 solutions, 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.

Graduate Attributes

Bachelor of Engineering in Architectural Engineering

Technical Knowledge and Application of Knowledge Skills

- Competence in architectural engineering fundamentals
- Competence in Architectural Engineering and at least two of the following areas:
 - Structural engineering
 - Architectural Design
 - Mechanical engineering within buildings
 - 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 architectural and engineering sketches and drawings
- Awareness of uncertainty and recognising limitations of architectural and 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 and independent thinking
- Competence in creative and innovative thinking
- Ability to effectively synthesize information and ideas
- Ability to conduct investigations and research into architectural 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 Architectural 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 with others in the architectural and engineering professions 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 architectural and engineering ethics
- Awareness of the social, cultural, political, international and structural context of professional architectural and engineering practices.

Graduate Attributes

Bachelor of Engineering in Avionics and Electrical Systems Engineering

- An advanced level of knowledge and understanding of the theory and practice of Avionics and Electronic Systems 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.

Graduate Attributes

Bachelor of Engineering in Chemical Engineering

- 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..

Graduate Attributes

Bachelor of Engineering in Civil & Environmental Engineering

Technical Knowledge and Application of Knowledge Skills

- Competence in engineering fundamentals
- Competence in Environmental Engineering plus at least one other of the following areas of Civil Engineering:
Water engineering *or*
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 and independent thinking
- Competence in 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 with others in 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.

Graduate Attributes

Bachelor of Engineering in Civil & Structural Engineering

Technical Knowledge and Application of Knowledge Skills

- Competence in engineering fundamentals
- Competence in Structural Engineering plus at least one other of the following areas of Civil Engineering:
Water engineering *or*
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 and independent thinking
- Competence in creative and innovative thinking
- Ability to effectively synthesise information and ideas
- Ability to conduct investigations and research into Civil and Structural 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 Structural 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 with others in 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.

Graduate Attributes

Bachelor of Engineering in Computer Systems Engineering

Bachelor of Engineering in Electrical & Electronic Engineering

Bachelor of Engineering in Software Engineering

Bachelor of Engineering in Telecommunications Engineering

- 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.

Graduate Attributes

Bachelor of Engineering in Mining Engineering

Technical knowledge and application of knowledge skills

- Competence in engineering fundamentals
- Competence in Mining 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 and independent thinking
- Competence in creative and innovative thinking
- Ability to effectively synthesize information and ideas
- Ability to conduct investigations and research into Mining 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 Mining 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 with others in 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.

Graduate Attributes

Bachelor of Engineering in Petroleum Engineering

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 optimise 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.

Graduate Attributes

Bachelor of Engineering in Sports Engineering

The Bachelor of Engineering in Sports Engineering program is similar in structure to other named Engineering programs hosted by the School of Mechanical Engineering. These programs are specifically designed to address the University's stated Graduate Attributes listed below:

- Knowledge and expertise in sports engineering, especially those areas which interface with mechanical engineering and the skills, and commitment to maintain that through a lifetime of engineering practice
- Apply knowledge of engineering and science fundamentals
- Knowledge, content and techniques of sports engineering in an international context
- A high level of ability in problem identification, formulation and solution together with a systems approach to operational performance
- Capabilities in effective communication, both verbally and in writing, and also to operate in individual and team environments
- Apply high level skills in the use of advanced technologies, computer and software facilities and associated capabilities
- Capacity to operate as a professional engineer who takes responsibility for engineering projects including the reliable functioning of materials and technologies in an integrated, complete and consistent system, and the interactions between the technical system and the environment in which it operates
- Ability to take a leadership role in the engineering profession as well as the wider community.
- Have a high level of understanding of the interfaces with ethical, social and cultural aspects of humanity.

Graduate Attributes

Bachelor of Engineering in Sustainable Energy Engineering

The Bachelor of Engineering in Sustainable Energy program is similar in structure to the existing Engineering programs in Chemical, Electrical and Electronic, and Mechanical Engineering. These programs are specifically designed to address The University's stated Graduate Attributes listed below:

- Knowledge and expertise in sustainable energy engineering, especially those areas which interface with mechanical, chemical and electrical engineering, and the skills and commitment to maintain that through a lifetime of engineering practice
- Apply knowledge of engineering and science fundamentals
- Knowledge, content and techniques of sustainable energy engineering in an international context.
- A high level of ability in problem identification, formulation and solution together with a systems approach to operational performance
- Capabilities in effective communication, both verbally and in writing, and also to operate in individual and team environments
- Apply high level skills in the use of advanced technologies, computer and software facilities and associated capabilities
- Capacity to operate as a professional engineer who takes responsibility for engineering projects including the reliable functioning of materials and technologies in an integrated, complete and consistent system, and the interactions between the technical system and the environment in which it operates
- Ability to take a leadership role in the engineering profession as well as the wider community.
- Have a high level of understanding of the interfaces with ethical, social and cultural aspects of humanity.



Bachelor of Mathematical Sciences

1 General

- 1.1 There shall be a degree of Bachelor of Mathematical Sciences.
- 1.2 There shall be an Honours degree of Bachelor of Mathematical Sciences. A candidate may obtain either a degree of Bachelor of Mathematical Sciences or an Honours degree of Bachelor of Mathematical Sciences or both.

2 Duration of program

The program of study for the Bachelor degree 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. 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 obtains a conceded pass result 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

Note To students commencing this program in 2008

This program is currently under review, and there may be changes to the structure and the courses offered in this program from 2009. While the courses listed at Level I reflect the courses available in 2008, courses listed at higher levels should be considered as indicative only.

Students commencing study in 2008 will be provided with access to the revised Academic Program Rules for this program as part of their enrolment process. The revised Rules will be available from the following web address: www.adelaide.edu.au/calendar

4.1 General: the degree of Bachelor of Mathematical Sciences

- 4.1.1 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 Level I courses to the value of at least 18 units including:
 - APP MTH 1000 Scientific Computing I.....3
 - MATHS 1008 Mathematics for Information Technology I.....3
 - MATHS 1011 Mathematics IA.....3
 - MATHS 1012 Mathematics IB.....3
 - STATS 1000 Statistical Practice I.....3
 - (b) A candidate shall pass Level II courses to the value of at least 21 units including:
 - APP MTH 2000 Differential Equations and Fourier Series.....2
 - APP MTH 2008 Operations Research II.....2
 - PURE MTH 2002 Algebra II.....2
 - PURE MTH 2003 Real Analysis II.....2
 - PURE MTH 2005 Multivariable Calculus II.....2
 - STATS 2002 Introduction to Mathematical Statistics II.....2
 - STATS 2011 Statistical Modelling II.....2
 - (c) A candidate shall pass Level III courses to the value of at least 24 units including:
 - i at least 18 units of study chosen from Applied Mathematics, and/or Pure Mathematics, and/or Statistics
 - ii Communication Skills III.
 Other courses may also be chosen from 4.2.3.3, 4.2.3.4, 4.2.3.5, 4.2.3.6 below.

- 4.1.2 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.
- 4.1.3 A graduate who wishes to qualify for the degree of Bachelor of Mathematical 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 4.1.1 above, and undertakes Level II and III courses to the value of at least 24 units from 4.2.2 and 4.2.3 below which have not been presented for any other degree. Of these 24 units, 20 must comprise Level III courses and at most 4 may comprise Level II courses.
- 4.1.4 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.
- 4.1.5 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 Sciences will be required as a minimum to complete Level III courses from 4.2.3 with an aggregate units value of 24.
- 4.1.6 With special permission of the Faculty a student who has completed most of the courses for the degree of Bachelor of Mathematical 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.
- 4.1.7 To complete a major in a Mathematical 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.

Mathematical Sciences

Candidates who do not otherwise qualify for a major in Applied Mathematics, Pure Mathematics or Statistics and who have successfully completed Level III courses offered in the School of Mathematical Sciences to the value of at least 12 units will qualify for the award of a major in Mathematical Sciences.

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 3003 Sampling Theory and Practice III
 STATS 3005 Time Series III
 STATS 3008 Biostatistics III
 STATS 3011 Bioinformatics III
 STATS 3012 Elements of Time Series 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 Sciences

Note To students commencing this program in 2008

This program is currently under review, and there may be changes to the structure and the courses offered in this program from 2009. While the courses listed at Level I reflect the courses available in 2008, courses listed at higher levels should be considered as indicative only.

Students commencing study in 2008 will be provided with access to the revised Academic Program Rules for this program as part of their enrolment process. The revised Rules will be available from the following web address: www.adelaide.edu.au/calendar

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 Sciences may not be offered within a given calendar year.

4.2.1 Level I courses

4.2.1.1 Mathematical Sciences courses

APP MTH 1000 Scientific Computing	3
MATHS 1008 Mathematics for Information Technology I	3
MATHS 1011 Mathematics IA	3
MATHS 1012 Mathematics IB	3
STATS 1000 Statistical Practice I	3

4.2.1.2 Computer Science courses

COMP SCI 1003 Internet Computing	3
COMP SCI 1008 Computer Science IA	3
COMP SCI 1009 Computer Science IB	3

4.2.1.3 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.

4.2.1.4 Economics and Commerce courses

Courses listed in 4.7.1 (a) for the degree of B.Ec. except the courses 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.

4.2.1.5 Science courses

Level I Science courses listed in 5.6.1 for the degree of B.Sc. in the Faculty of Sciences.

4.2.1.6 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 Sciences courses

Applied Mathematics	
APP MTH 2000 Differential Equations & 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
Mathematical Physics	
PHYSICS 2001 Classical Mechanics II.....	2
PHYSICS 2002 Classical Fields & Mathematical Methods II.....	2
Pure Mathematics	
PURE MTH 2000 Discrete Mathematics II.....	2
PURE MTH 2002 Algebra II.....	2
PURE MTH 2003 Real Analysis 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 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 & Algorithms.....	3
COMP SCI 2005 Systems Programming C & C++.....	3
COMP SCI 2006 Introduction to Software Engineering.....	3

4.2.2.3 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.

4.2.2.4 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.

4.2.2.5 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 Sciences courses

Applied Mathematics	
APP MTH 3000 Computational Mathematics III ...3	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
APP MTH 3017 Waves III.....	3
APP MTH 3018 Mathematics of Finance III.....	2
Mathematical Physics	
PHYSICS 3004 Quantum Mechanics III.....	3
PHYSICS 3006 Advanced Dynamics & 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.....	3
PURE MTH 3005 Fractal Geometry III.....	3
PURE MTH 3007 Groups and Rings III.....	3
PURE MTH 3009 Integration and Analysis III.....	3
PURE MTH 3012 Fields and Geometry III.....	3
PURE MTH 3018 Coding and Cryptology III.....	3
PURE MTH 3019 Complex Analysis III.....	3

PURE MTH 3020 Methods of Modern Mathematics III	3
PURE MTH 3021 Logic and Computability	3
Statistics	
STATS 3000 Industrial Statistics III	2
STATS 3001 Statistical Modelling III	3
STATS 3003 Sampling Theory and Practice III	3
STATS 3005 Time Series III	3
STATS 3006 Mathematical Statistics III	3
STATS 3008 Biostatistics III	3
STATS 3011 Bioinformatics III	3
STATS 3012 Elements of Time Series III	2
4.2.3.2 Miscellaneous (non-Mathematical and Computer Sciences) courses	
MATHS 3015 Communication Skills III	3
MATHS 4003 Industry Practicum (Maths. & Comp. Sc.)	2
4.2.3.3 Computer Science	
COMP SCI 3001 Computer Networks & Applications	3
COMP SCI 3002 Programming Techniques	3
COMP SCI 3004 Operating Systems	3
COMP SCI 3005 Computer Architecture	3
COMP SCI 3006 Software Engineering & Project	3
COMP SCI 3007 Artificial Intelligence	3
COMP SCI 3009 Advanced Programming Paradigms	3
COMP SCI 3012 Distributed Systems	3
COMP SCI 3013 Event Driven Computing	3
COMP SCI 3014 Computer Graphics	3
4.2.3.4 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.	
4.2.3.5 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.	
4.2.3.6 Science courses	
Level III Science courses listed in 5.6.5 for the degree of B.Sc. in the Faculty of Sciences.	
4.3 Honours program	
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.

4.3.1 The Honours degree of Bachelor of Mathematical Sciences

4.3.1.1 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 4015 A/B Honours Applied Mathematics
APP MTH 4017 A/B Honours Applied Mathematics and Statistics

MATHS 4000 A/B Honours Mathematical Sciences
PHYSICS 4001 A/B Honours Mathematical Physics
PURE MTH 4001 A/B Honours Pure Mathematics and Statistics

PURE MTH 4002 A/B Honours Mathematical Physics and Pure Mathematics

PURE MTH 4003 A/B Honours Pure and Applied Mathematics

PURE MTH 4005 A/B Honours Pure Mathematics
STATS 4000 A/B Honours Statistics

4.3.1.2 A candidate may, subject to the approval of the Faculty in each case, proceed to the Honours degree in a program taught in a school 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.

4.3.1.3 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.

4.3.1.4 Unless granted permission to spread the work of the Honours program over two years under 4.3.1.3, 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 Mathematical Sciences 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.

4.3.1.5 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 4.3.1.6 permits re-enrolment.

4.3.1.6 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.

4.4 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.

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 Mathematical and Computer Sciences

1 General

- 1.1 There shall be a degree of Bachelor of Mathematical and Computer Sciences.
- 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.

2 Duration of program

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. 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 obtains a conceded pass result 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

Note To students commencing this program in 2008

This program is currently under review, and there may be changes to the structure and the courses offered in this program from 2009. While the courses listed at Level I reflect the courses available in 2008, courses listed at higher levels should be considered as indicative only.

Students commencing study in 2008 will be provided with access to the revised Academic Program Rules for this program as part of their enrolment process. The revised Rules will be available from the following web address:
www.adelaide.edu.au/calendar

4.1 General: the degree of Bachelor of Mathematical and Computer Sciences

- 4.1.1 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
MATHS 1013 Mathematics IMA *and*
MATHS 1011 Mathematics IA *and*
MATHS 2004 Mathematics IIM
for the degree, obtaining a Pass standard or higher for each course presented.
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 1011 Mathematics IA 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.

4.1.2 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.

4.1.3 Subject to 4.1.2, 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 2001 Linear Programming and Numerical Analysis	2
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.

Note (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 4.1.7. Students wishing to qualify for the B.Ma.& Comp.Sc. in this way must apply for admission to the B.Ma.& Comp.Sc. program.

4.1.4 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, Statistics and Computer Science before obtaining at least a pass in MATHS 1011 Mathematics IA with MATHS 1013 Mathematics IMA or MATHS 1012 Mathematics IB with MATHS 1011 Mathematics IA. 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.

4.1.5 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.

4.1.6 Except with the permission of the Faculty, a candidate may not enrol in courses to the value of more than 50 units taught by disciplines other than Applied Mathematics, Pure Mathematics, Statistics and Computer Science. These courses shall not include courses in which a candidate has failed or from which a candidate has withdrawn.

4.1.7 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 4.1.1 above, including Level II and Level III courses from 4.2.2 and 4.2.3 below 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 Mathematical and Computer Sciences courses to the value of at least 12 units.

4.1.8 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.

4.1.9 Candidates who commenced their program 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.

4.1.10 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.

4.1.11 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.

- 4.1.12 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 9 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.

Mathematical Sciences

Candidates who do not otherwise qualify for a major in Applied Mathematics, Pure Mathematics or Statistics and who have successfully completed Level III courses offered in the School of Mathematical Sciences to the value of at least 12 units will qualify for the award of a major in Mathematical Sciences.

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 3003 Sampling Theory and Practice III

STATS 3005 Time Series III

STATS 3008 Biostatistics III

STATS 3011 Bioinformatics III

STATS 3012 Elements of Time Series 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

Note To students commencing this program in 2008

This program is currently under review, and there may be changes to the structure and the courses offered in this program from 2009. While the courses listed at Level I reflect the courses available in 2008, courses listed at higher levels should be considered as indicative only.

Students commencing study in 2008 will be provided with access to the revised Academic Program Rules for this program as part of their enrolment process. The revised Rules will be available from the following web address: www.adelaide.edu.au/calendar

Students are advised that some courses cannot be counted with others towards the degree of Bachelor of Mathematical and Computer Sciences.

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 every calendar year.

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
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 MATHS 1002 Quantitative Methods Using Computers 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 1005 Mathematics for Economists I and ECON 1008 Business Data Analysis I. and 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
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* Available only to students who have been accepted for candidature to the LL.B.

4.2.1.5 Engineering courses*

C&ENVENG 1008 Engineering Planning and Design IA	2
C&ENVENG 1010 Engineering Mechanics - Statics	2
CHEM ENG 1007 Process Engineering I.....	2
CHEM ENG 1009 Materials I.....	2
ELEC ENG 1009 Electrical & Electronic Engineering IA	3
ELEC ENG 1010 Electrical & Electronic Engineering IB	2
MECH ENG 1006 Design Graphics and Communication M.....	2
MECH ENG 1007 Engineering Mechanics - Dynamics	2

* Students can not enrol in CHEM ENG 1008 Engineering Computing and C&ENVENG 1012 Engineering Modelling and Analysis IA under this degree

Candidates who have been previously enrolled in an Engineering degree at the University of Adelaide are also directed to Academic Program Rule 4.1.3.

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 & 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 SCI2003 Numerical Methods.....	3
COMP SCI2004 Data Structures & Algorithms	3
COMP SCI2005 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 & Mathematical Methods II.....	2
Pure Mathematics	
PURE MTH 2000 Discrete Mathematics II.....	2
PURE MTH 2002 Algebra II	2
PURE MTH 2003 Real Analysis 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 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 an Engineering degree at the University of Adelaide are directed to Academic Program Rule 4.1.3.

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 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 MTH3010 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
APP MTH 3017 Waves III	3
APP MTH 3018 Mathematics of Finance III.....	2
Computer Science	
Comp Sci 3001 Computer Networks and Applications	3
COMP SCI 3002 Programming Techniques	3
COMP SCI 3004 Operating Systems	3
COMP SCI 3005 Computer Architecture	3
COMP SCI 3006 Software Engineering & Project.....	3
COMP SCI 3007 Artificial Intelligence.....	3
COMP SCI 3009 Advanced Programming Paradigms	3
COMP SCI 3012 Distributed Systems.....	3
COMP SCI 3013 Event Driven Computing	3
COMP SCI 3014 Computer Graphics	3
Mathematical Physics	
PHYSICS 3004 Quantum Mechanics III	3
PHYSICS 3006 Advanced Dynamics & 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	3
PURE MTH 3005 Fractal Geometry III.....	3
PURE MTH 3007 Groups and Rings III	3
PURE MTH 3009 Integration and Analysis III.....	3
PURE MTH 3012 Fields and Geometry III.....	3
PURE MTH 3018 Coding and Cryptology III	3
PURE MTH 3019 Complex Analysis III.....	3
PURE MTH 3020 Methods of Modern Mathematics III.....	3
PURE MTH 3021 Logic and Computability	3
Statistics	
STATS 3000 Industrial Statistics III	2
STATS 3001 Statistical Modelling III.....	3
STATS 3003 Sampling Theory and Practice III	3
STATS 3005 Time Series III.....	3
STATS 3006 Mathematical Statistics III.....	3
STATS 3008 Biostatistics III	3
STATS 3011 Bioinformatics III	3
STATS 3012 Elements of Time Series III.....	3

4.2.3.2 Miscellaneous (non-Mathematical and Computer Sciences) courses

MATHS 3015 Communication Skills III.....	3
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 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 1007 Law of Torts	2
LAW 2117 Law of Contract	2

* 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 Honours programs

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.

4.3.1 The Honours degree of Bachelor of Mathematical and Computer Sciences

4.3.1.1 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 4011 A/B Honours Applied Mathematics and Computer Science
APP MTH 4015 A/B Honours Applied Mathematics
APP MTH 4016 A/B Honours Applied Mathematics and Genetics
APP MTH 4017 A/B Honours Applied Mathematics and Statistics

APP MTH 4018 A/B Honours Applied Mathematics and Environmental Biology

COMP SCI 4999 A/B Honours Computer Science

MATHS 4000 A/B Honours Mathematical Sciences

PHYSICS 4001 A/B Honours Mathematical Physics

PURE MTH 4001 A/B Honours Pure Mathematics and Statistics

PURE MTH 4002 A/B Honours Mathematical Physics and Pure Mathematics

PURE MTH 4003 A/B Honours Pure and Applied Mathematics

PURE MTH 4004 A/B Honours Computer Science and Pure Mathematics

PURE MTH 4005 A/B Honours Pure Mathematics

PURE MTH 4998 A/B Honours Philosophy and Pure Mathematics

STATS 4000 A/B Honours Statistics

STATS 4003A/B Honours Statistics and Computer Science

STATS 4004A/B Honours Statistics and Genetics

- 4.3.1.2 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.
- 4.3.1.3 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.
- 4.3.1.4 Unless granted permission to spread the work of the Honours program over two years under 4.3.1.3, 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 Mathematical and Computer Sciences 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.
- 4.3.1.5 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 4.3.1.6 permits re-enrolment.

4.3.1.6 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.

4.4 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.

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.

Graduate Attributes

Bachelor of Mathematical and Computer Sciences

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.



Academic Program Rules

Faculty of Health Sciences

Contents

Bachelor of Dental Surgery B.D.S.....	156
Bachelor of Health Sciences B.Hlth.Sc.....	160
Bachelor of Medical Science (Honours) B.Med.Sc.(Hons).....	176
Bachelor of Medicine and Bachelor of Surgery M.B.,B.S.....	169
Bachelor of Nursing B.Nurs.....	177
Bachelor of Oral Health B.Oral Hlth.....	181
Bachelor of Psychological Science B.Psych.Sc.....	185
Bachelor of Psychology (Honours) B.Psych.(Hons).....	188
Bachelor of Science in Dentistry (Honours) B.Sc.Dent.....	192

Undergraduate Awards

- Degree of Bachelor of Dental Surgery
- Degree of Bachelor of Health Sciences
- Degree of Bachelor of Medicine and Bachelor of Surgery
- Degree of Bachelor of Nursing
- Degree of Bachelor of Oral Health
- Degree of Bachelor of Psychological Science
- Degree of Bachelor of Psychology (Honours)
- Honours degree of Bachelor of Health Sciences
- Honours degree of Bachelor of Medical Science
- Honours degree of Bachelor of Science in Dentistry

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.

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
- (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 the 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 and 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.

In addition there shall be a classification of Conceded Pass. Courses for which a result of Conceded Pass has been obtained shall not satisfy prerequisite requirements and may not be presented as a credit towards the award of the

Bachelor of Dentistry. It is a requirement that all courses are completed at a Pass level or better in order to progress to the following year and to meet the academic requirements of the program.

- 4.4 A candidate who fails a stream or who obtains a Conceded Pass shall, unless exempted wholly or partially therefrom by the Dean 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 to obtain a Pass or higher in 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 Rules for the admission of dental students to the practice of the South Australian Dental Service and other teaching hospitals and health centres:

- 5.2.1 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.
- 5.2.2 No student may introduce visitors into any of the said clinics, hospitals or health centres without permission of the above designated officers.

- 5.2.3 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.
- 5.2.4 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.
- 5.2.5 No student shall administer treatment to any patient without the approval of an appointed teacher.
- 5.2.6 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.
- 5.2.7 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.
- 5.2.8 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.
- 5.2.9 Students shall pay such fees as are laid down by the South Australian Dental Service in consultation with the Dean of the School of Dentistry; no student shall be admitted to clinics until such fees are paid.
- 5.2.10 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 School of Dentistry.

5.3 Academic program

5.3.1 Curriculum

5.31.1 DENT 1000HO First Annual BDS Examination

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

DENT 1001 AHO/BHO Dental & Health Science I Part 1 & 2.....	6
DENT 1002 AHO/BHO Dental Clinical Practice I Part 1 & 2.....	8
DENT 1003 AHO/BHO Human Biology ID Part 1 & 2.....	6
DENT 1004 AHO/BHO General Studies ID Part 1 & 2.....	4

5.3.1.2 DENT 2000HO Second Annual BDS Examination

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

DENT 2001 AHO/BHO Dental and Health Science II Part 1 & 2.....	6
DENT 2002 AHO/BHO Dental Clinical Practice II Part 1 & 2.....	8
DENT 2003 AHO/BHO Structure and Function of the Body IID Part 1 & 2.....	6
DENT 2004 AHO/BHO General Studies IID Part 1 & 2.....	4

5.3.1.3 DENT 3000HO Third Annual BDS Examination

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

DENT 3001 AHO/BHO Dental & Health Science III Part 1 & 2.....	6
DENT 3002 AHO/BHO Dental Clinical Practice III Part 1 & 2.....	12
DENT 3003 AHO/BHO Diseases & Disorders of the Body IIID Part 1 & 2.....	6

5.3.1.4 DENT 4000HO Fourth Annual BDS Examination

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

DENT 4001 AHO/BHO Dental & Health Science IV Part 1 & 2.....	8
DENT 4002 AHO/BHO Dental Clinical Practice IV Part 1 & 2.....	12
DENT 4003 AHO/BHO Dental Selectives IV Part 1 & 2.....	4

5.3.1.5 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 5001 AHO/BHO Dental and Health Science V Part 1 & 2.....	8
DENT 5002 AHO/BHO Dental Clinical Practice V Part 1 & 2.....	12
DENT 5003 AHO/BHO Dental Selectives V Part 1 & 2.....	4

5.4 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 will not normally 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 45% 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.

5.5 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.

5.6 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.

Graduate Attributes

Bachelor of Dental Surgery

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.



Bachelor of Health Sciences

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

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.

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 (a) 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.
In addition there shall be a classification of Conceded Pass for courses up to a maximum of 7 units for the single degree program, or to a maximum of 4 units for the degree of Bachelor of Health Sciences/Bachelor of Laws. 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.

(b) A candidate who fails a course or who obtains a Conceded Pass and who desires to take that course again shall, unless exempted wholly or partially therefrom by the Head of the discipline concerned, again complete the required work in that course to the satisfaction of the teaching staff concerned.

(c) A candidate who has twice failed to obtain a pass or higher in 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 under such conditions as Faculty may prescribe.

4.4 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

Note To students commencing this program in 2008

This program is currently under review, and there may be changes to the structure and the courses offered in this program from 2009. While the courses listed at Level I reflect the courses available in 2008, courses listed at higher levels should be considered as indicative only.

Students commencing study in 2008 will be provided with access to the revised Academic Program Rules for this program as part of their enrolment process. The revised Rules will be available from the following web address: www.adelaide.edu.au/calendar

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 I...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 II4
 ANAT SC 2103 Functional Human Anatomy II.....4
 ANAT SC 2106 Ethics, Science & Society II....4
 GEN PRAC 2001HO Indigenous Health IIHS ...4
 PHARM 2002 Drugs, Chemicals & Health4
 PHARM 2003 Drugs, Chemicals & the Environment4
 PSYCHIAT 2002 Emotion, Culture & Medicine II.....4
 PSYCHOL 2002 Psychology IIA.....4
 PSYCHOL 2003 Psychology IIB.....4
 PSYCHOL 2001 Psychological Research Methodology II4
 PUB HLTH 2000 Public Health Inquiry II4
 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⁺ 12

⁺ A listing or acceptable courses is available from:
www.health.adelaide.edu.au/enroll/bhsguide.pdf

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 Anthropological & Forensic Anatomy III3
 ANAT SC 3102 Comparative Reproductive Biology of Mammals3
 ANAT SC 3103 Integrative and Comparative Neuroanatomy3
 ANAT SC 3104 Structural Cell Biology3
 ANAT SC 3106 Ethics, Science & Society III...6

Pathology

PATHOL 3003 General Pathology.....6
 PATHOL 3100 Topics in Forensic Science3
 PATHOL 3200 Neurological Diseases3
 Pharmacology

PHARM 3010 Pharmacology A III6
 PHARM 3011 Pharmacology B III6

Psychology

PSYCHOL 3000 Psychological Research Methodology III4
 PSYCHOL 3003 Developmental Psychology III2
 PSYCHOL 3005 Perception & Cognition III.....2
 PSYCHOL 3006 Psychology: Physiology & Behaviour III.....2
 PSYCHOL 3009 Metapsychology III.....2
 PSYCHOL 3010 Social Psychology III2
 PSYCHOL 3013 Learning and Behaviour III ...2
 PSYCHOL 3014 Individual Differences III2
 PSYCHOL 3015 Human Relations III.....2
 PSYCHOL 3016 Language Processes III.....2
 PSYCHOL 3017 Health Psychology III.....2

Public Health

PUB HLTH 3004 International Health III.....6
 PUB HLTH 3117HO Rural Public Health IIHS6
 PUB HLTH 3119HO Public Health Internship III.....6
 PUB HLTH 3120 Public Health Theory & Practice III6
 Other Health Sciences

MICRO 3003 Medical Microbiology & Immunology III.....6
 OB&GYN 3000 Human Reproductive Health III.....6

- (b) The completion of a major in an area of study offered by either the Faculty of Health Sciences 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 or from a recognised interdisciplinary stream.

- (c) An interdisciplinary stream is an area of study concentration across more than one discipline that is recognised by the Faculty of Health Sciences as sharing a common theme. The following are examples of approved interdisciplinary streams:

Neuroscience

ANAT SC 3103 Integrative and Comparative Neuroanatomy3
 PATHOL 3200 Neurological Diseases3
 PHYSIOL 3001 Neurobiology III6

Reproductive Health

ANAT SC 3102 Comparative Reproductive Biology of Mammals	3
OB&GYNAE 3000 Human Reproductive Health III.....	6

- (d) Candidates are able to present a maximum of 12 units of courses at Level III offered outside of the Faculty of Health Sciences by the Faculty of Humanities and Social 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.*

- 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 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 discipline concerned, proceed to the Honours degree in one of the following courses:

ANAES&IC 4000AHO/BHO Honours Anaesthesia & Intensive Care

ANAT SC 4000 A/B Honours Anatomical Sciences

BIOCHEM 4000A/B Honours Biochemistry

CLIN NUR 4000 AHO/BHO Honours Clinical Nursing

DENT 4100 AHO/BHO Honours Dentistry

GENETICS 4005 A/B Honours Genetics

GEN PRAC 4000A/B Honours Primary Health Care

MEDICINE 4000 AHO/BHO Honours Medicine

MICRO 4000 A/B Honours Microbiology and Immunology

OB&GYNAE 4000 AHO/BHO Honours Obstetrics and Gynaecology

ORT&TRAU 4000 AHO/BHO Honours Orthopaedics and Trauma

PAEDIAT 4000 AHO/BHO Honours Paediatrics

PATHOL 4000 A/B Honours Pathology

PHARM 4000 A/B Honours Pharmacology

PHYSIOL 4000 A/B Honours Physiology

PSYCHIAT 4000 AHO/BHO Honours Psychiatry

PSYCHOL 4000 A/B Honours Psychology

PUB HLTH 4000 AHO/BHO Honours Public Health

SURGERY 4000 AHO/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 discipline in another faculty. Candidates must consult the Head of the discipline concerned and apply, in writing, to the Faculty before 30 November in the preceding year for admission to the Honours program.

6 Combined degree programs

6.1 Status granted in combined degree programs

6.1.1 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 under-takes 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.

6.1.2 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.

6.1.2.1 Academic program

Note To students commencing this program in 2008

This program is currently under review, and there may be changes to the structure and the courses offered in this program from 2009. While the courses listed at Level I reflect the courses available in 2008, courses listed at higher levels should be considered as indicative only.

Students commencing study in 2008 will be provided with access to the revised Academic Program Rules for this program as part of their enrolment process. The revised Rules will be available from the following web address:
www.adelaide.edu.au/calendar

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
GEST 1001 Globalisation, Justice
and a Crowded Planet..... 3
GWSI 1001 Social Sciences in Australia..... 3
PUB HLTH 1001 Public Health IA 3
PUB HLTH 1002 Public Health IB.....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 & 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.

6.1.3 Bachelor of Health Sciences/Bachelor of Mathematical and Computer Sciences

The Bachelor of Health Sciences may be taken concurrently with the Bachelor of Mathematical and Computer Sciences in a double degree program designed to be completed in 4 years of study (96 Units). Students are required to complete a major in both Statistics and Health Sciences. Students who complete the requirements for both degrees are awarded two degrees and two parchments.

There are two pathways in the Bachelor of Mathematical and Computer Sciences that it is

possible to follow, depending on SACE results - Maths 1A or Maths 1MA. Maths 1A requires completion of SACE Stage 2 Mathematical Studies and Specialist Mathematics. Maths 1MA requires completion of SACE Stage 2 Mathematical Studies.* In both pathways, the Health Sciences courses remain the same.

6.1.3.1 Academic program

Note To students commencing this program in 2008

This program is currently under review, and there may be changes to the structure and the courses offered in this program from 2009. While the courses listed at Level I reflect the courses available in 2008, courses listed at higher levels should be considered as indicative only.

Students commencing study in 2008 will be provided with access to the revised Academic Program Rules for this program as part of their enrolment process. The revised Rules will be available from the following web address: www.adelaide.edu.au/calendar

Maths IA Pathway

To qualify for the double degree of Bachelor of Health Sciences/Bachelor of Mathematical and Computer Sciences following the Maths 1A pathway, a student shall present passes in courses to the equivalent of 96 Units which satisfy the following requirements:

Level I

Semester 1

ANAT SC 1101 Human Biology IA.....	3
APP MTH 1000 Scientific Computing I.....	3
MATHS 1011 Mathematics IA.....	3
PUB HLTH 1001 Public Health IA.....	3

Semester 2

ANAT SC 1102 Human Biology IB.....	3
MATHS 1012 Mathematics IB.....	3
PUB HLTH 1002 Public Health IB.....	3
STATS 1004 Statistical Practice I (Life Sciences)	3

or

STATS 1000 Statistical Practice I.....	3
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Note: All courses at Level I are compulsory.

Level II

Semester 1

APP MTH 2000 Differential Equations & Fourier Series.....	2
PUB HLTH 2001 Public Health Sciences II.....	4
PURE MTH 2005 Multivariable Calculus II	2
STATS 2002 Introduction to Maths Statistics II	2
STATS 2003 Statistical Practice II.....	2

Semester 2

APP MTH 2008 Operations Research II.....	2
PATHOL 2000 Biology of Disease II.....	4
STATS 2011 Statistical Modelling II.....	2
Any Approved Level II Health Sciences course....	4

Level III

Semester 1

STATS 3001 Statistical Modelling III.....	3
STATS 3006 Mathematical Statistics III.....	3
Any combination of Level III Health Sciences courses to the total value of 6 units*	6

Semester 2

Any combination of Level III Health Sciences courses to the total value of 6 units**.....	6
Level III Mathematical Sciences courses to total value of 6 units*	6

Level IV

Semester 1

APP MTH 3001 Applied Probability III.....	3
Any combination of Level III Health Sciences courses to the total value of 6 Units.....	6
Level II or III Mathematical Sciences courses to total value of 3 units*	3

Semester 2

Any combination of Level III Health Sciences courses to the total value of 6 Units.....	6
Level III Mathematical Sciences courses to total value of 6 units*	6

* Must include Biostatistics III in either 3rd or 4th Year & 9 units of other approved level III Mathematical Sciences courses over Years 3 and 4.

** The combination of Health Sciences courses must include a major sequence of study from a single discipline or from a recognised interdisciplinary stream.

Maths IMA Pathway

To qualify for the Double Degree of Bachelor of Health Sciences / Bachelor of Mathematical and Computer Sciences following the Maths 1MA pathway, a student shall present passes in courses to the equivalent of 96 Units which satisfy the following requirements:

Level I

Semester 1

ANAT SC 1101 Human Biology IA.....	3
APP MTH 1000 Scientific Computing I.....	3
MATHS 1013 Mathematics IMA.....	3
PUB HLTH 1001 Public Health IA.....	3

Semester 2	
ANAT SC 1102 Human Biology IB.....	3
MATHS 1011 Mathematics IA.....	3
PUB HLTH 1002 Public Health IB.....	3
STATS 1004 Statistical Practice I (Life Sciences)	3
<i>or</i>	
STATS 1000 Statistical Practice I.....	3

Note: All courses at Level I are compulsory.

Level II

semester 1

MATHS 2004 Mathematics IIM.....	4
PUB HLTH 2001 Public Health Sciences II.....	4
STATS 2002 Introduction to Maths Statistics II.....	2
STATS 2003 Statistical Practice II.....	2

semester 2

APP MTH 2008 Operations Research II.....	2
PATHOL 2000 Biology of Disease II.....	4
STATS 2011 Statistical Modelling II.....	2
Any Approved Level II Health Sciences course.....	4

Level III

semester 1

APP MTH 2000 Differential Equations & Fourier series.....	2
PURE MTH 2005 Multivariable Calculus II.....	2
Any combination of Level III Health Sciences courses to the total value of 6 units.....	6
Level III Mathematical Sciences courses*.....	2

semester 2

Any combination of Level III Health Sciences courses to the total value of 6 units.....	6
Level III Mathematical Sciences courses to total value of 6 units*.....	6

Level IV

semester 1

APP MTH 3001 Applied Probability III.....	3
STATS 3001 Statistical Modelling III.....	3
STATS 3006 Mathematical Statistics III.....	3
Any combination of Level III Health Sciences courses to the total value of 6 units.....	6

semester 2

Any combination of Level III Health Sciences courses to the total value of 6 units.....	6
Level III Mathematical Sciences courses to total value of 6 units*.....	6

* Must include Biostatistics III in either 3rd or 4th Year and 8 units of other approved level III Mathematical Sciences courses over Years 3 and 4.

Maths 1A and IMA Pathways

In both pathways, the level III Mathematical Sciences courses must include Biostatistics III and 6 units chosen from the following:

STATS 3000 Industrial Statistics III.....	2
STATS 3003 Sampling Theory and Practice III*.....	3
STATS 3005 Time Series III*.....	3
STATS 3008 Biostatistics III*.....	3
STATS 3011 Bioinformatics III*.....	3

The completion of a major in an area of study offered by either the Faculty of Health Sciences or School of Molecular and Biomedical Sciences is defined as the completion, at Pass level or above of at least 9 Units of courses from within a single discipline or from a recognised interdisciplinary stream.

* Not offered every year.

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

6.3 Cross-institutional study

With prior approval of the Faculty, students may study courses offered at Bachelor degree level by other universities as cross-institutional students, subject to the following provisions:

- 6.3.1 Students must complete all core courses as specified above at the University of Adelaide.
- 6.3.2 The following limits apply:
Level I: no cross-institutional study
Levels II, III and IV: up to a maximum of 12 units in lieu of elective courses in Health Sciences.
- 6.3.3 Students undertaking cross-institutional studies must abide by any rules and regulations the host institution shall prescribe.
- 6.3.4 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 of Health Sciences.

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 Faculty in each case, may vary any of the provisions of the Academic Program Rules for any particular award.

Graduate Attributes

Bachelor of Health Sciences

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.

Graduate Attributes

Bachelor of Health Sciences/ Bachelor of Mathematical and Computer Sciences

Because students are undertaking a double degree, and completing all elements required for both programs, they would be expected to have the Graduate Attributes from both programs as listed below

Health Sciences

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.

Bachelor of Health Sciences/ Bachelor of Mathematical and Computer Sciences
(cont'd)

Mathematical and Computer Sciences

Mathematical and Computer Sciences 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 mathematical/statistical problems
- 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.

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 Executive 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/policies/591 - 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:

- regularly attending lectures and PBL sessions
- satisfactorily participating in tutorial, practical and project work, clinical programs and attachments *and*
- 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 will be required to undertake and pass a total of 24 units of courses during each of Years 1, 2 and 3 of the MBBS program. At the time of enrolment, students will be advised how these units are to be allocated.

In addition, after the end of Year 5 and before commencing the study and practice for the final Year 6 program, a student is required to undertake an external elective approved by the Dean of Medicine.

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 1101 A/B Scientific Basis of Medicine I.....	6
MEDIC ST 1102 A/B Clinical Skills I	6
MEDIC ST 1103 A/B Medical Professional & Personal Development I	6

Students must also enrol in, and pass:

Semester 1

BIOLOGY 1101MED Molecules, Genes & Cells A.....	3
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Semester 2

BIOLOGY 1201MED Biology I: Human Perspectives.....	3
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MEDIC ST 2000 A/B Second Year Examination

Core courses

Medic St 2101 A/B Scientific Basis of Medicine II.....	6
Medic St 2102 AHO/BHO Clinical Skills II.....	6
Medic St 2103 A/B Medical Professional & Personal Development II	6

Students will be required to undertake and pass an additional 6 units of elective courses as advised in the MBBS enrolment instructions.

MEDIC ST 3000 A/B Third Year Examination

Core courses

MEDIC ST 3101 A/B Scientific Basis of Medicine III.....	6
MEDIC ST 3102 A/B Clinical Skills III	6
MEDIC ST3103 A/B Medical Professional & Personal Development III	6

Students will be required to undertake and pass approved elective courses over Years 2 and 3 to an aggregate of 12 units.

MEDIC ST 4000 A/B Fourth Year Examination

Medic ST 4005 AHO/BHO Medical Home Unit.....	5
MEDIC ST 4006 AHO/BHO Surgical Home Unit	5
MEDIC ST 4007 AHO/BHO Psychological Health	3
MEDIC ST 4008 AHO/BHO Acute & Chronic Care 1	3
MEDIC ST 4009 AHO/BHO Medical & Scientific Attachment 1	2

MEDIC ST 4010 AHO/BHO Medical & 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 5005 AHO/BHO Medical & Scientific Attachment 3	2
MEDIC ST 5006 AHO/BHO Medical & Scientific Attachment 4	2
MEDIC ST 5007 AHO/BHO Medical & Scientific Attachment 5	2
MEDIC ST 5008 AHO/BHO Medical & Scientific Attachment 6	2
MEDIC ST 5009 AHO/BHO Acute & Chronic Care 2	4
MEDIC ST 5010 AHO/BHO Paediatrics and Child Health	5
MEDIC ST 5011 AHO/BHO Human Reproductive Health	5
MEDIC ST 5012 AHO/BHO Common Program	2
MEDIC ST 5013 External Elective	

MEDIC ST 6000 Final Sixth Year Assessment

MEDIC ST 6001 AHO/BHO Clinical Elective and Specials Week VI	3
MEDIC ST 6002 AHO/BHO Medicine Internship and Common Program VI	3
MEDIC ST 6003 AHO/BHO Surgery Internship VI	3
MEDIC ST 6004 AHO/BHO Emergency Medicine Internship VI	3
MEDIC ST 6005 AHO/BHO Primary Care SCAP VI	3
MEDIC ST 6006 AHO/BHO Psychological Health SCAP VI	3
MEDIC ST 6007 AHO/BHO Medicine SCAP VI	3
MEDIC ST 6008 AHO/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 Executive Dean of the Faculty of Health Sciences (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.

Graduate Attributes

Bachelor of Medicine & Bachelor of Surgery

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 postgraduate 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 program 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.

Bachelor of Medicine & Bachelor of Surgery (cont'd)

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.

Bachelor of Medicine & Bachelor of Surgery (cont'd)

- 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)

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:
- passed the Third Year Examination for the degrees of Bachelor of Medicine and Bachelor of Surgery
 - been accepted by the Head of School and Head of Discipline concerned as a suitable candidate for advanced work in the course he/she wishes to pursue *and*
 - completed such prerequisite work as the Head of School and Head of Discipline 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 4000 A/B Honours Anatomical Sciences

BIOCHEM 4000 A/B Honours Biochemistry

GEN PRAC 4000 AHO/BHO Honours General Practice

MEDICINE 4000 AHO/BHO Honours Medicine

MICRO 4000 A/B Honours Microbiology and Immunology

OB&GYNAE 4000 AHO/BHO Honours Obstetrics and Gynaecology

ORT&TRAU 4000 AHO/BHO Honours Orthopaedics and Trauma

PAEDIAT 4000 AHO/BHO Honours Paediatrics

PATHOL 4000 A/B Honours Pathology

PHARM 4000 A/B Honours Pharmacology

PHYSIOL 4000 A/B Honours Physiology

PSYCHIAT 4000 AHO/BHO Honours Psychiatry

PSYCHOL 4000 A/B Honours Psychology

PUB HLTH 4000 AHO/BHO Honours Public Health

SURGERY 4000 AHO/BHO Honours Surgery

- 5.2 The program comprises three equally important aspects undertaken concurrently:

- Program of Reading in selected fields, and the submission of a series of essays associated therewith.
- Experimental work covering a wide range of techniques
- 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.



1 General

There shall be a degree of Bachelor of Nursing

2 Duration of program

The program of study shall extend over three years of full time study.

3 Admission

- 3.1 The admission requirements for the degree are subject to selection procedures currently operating in the Discipline.

3.2 Status, exemption and credit transfer

A student who leaves the program without approval 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.

Students who have interrupted their studies 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 Discipline deems appropriate.

3.3 Physical fitness

The Bachelor of Nursing has an extensive clinical component that requires students to work as members of the health care team. To satisfactorily undertake this clinical component students need to be physically fit. Students must satisfy the individual Occupational Health and Safety requirements of the institution in which they are undertaking the clinical component of the program.

3.4 Prescribed communicable infections policy

The University promotes a proactive 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 towards 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 Nursing, Bachelor of Medicine and Bachelor of Surgery, Bachelor of Dental Surgery or other clinical programs offered by the Faculty of Health Sciences.

All prospective nursing 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 teaching staff concerned, prior to the beginning of the examination, the programs of study and practice prescribed for it. A candidate who is not eligible to attend for examination shall be deemed to have failed the examination.

- 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 Before presenting for the examination again, attend again the parts of study and practice leading to that examination as the Faculty may direct.

- 4.4 (a) 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.

In addition there shall be a classification of Conceded Pass. Courses for which a result of Conceded Pass has been obtained shall not satisfy prerequisite requirements and may not be presented as a credit towards the award of the Bachelor of Nursing. It is a requirement that all courses are completed at a Pass level or better in order to progress to the following year and to meet the academic requirements of the program.

- (b) A candidate who fails a course or who obtains a conceded pass shall, unless exempted wholly or partially therefrom by the Head of Discipline concerned, again complete the required work in that course to the satisfaction of the teaching staff concerned.

- 4.5 The Discipline of Nursing 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.
- 4.6 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.
- 4.7 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 publications of the result of the supplementary examination.
- 4.8 A candidate who has twice failed the examination in any course for the Bachelor degree may not enrol for that course again except by permission of the Head of Discipline and then only under such conditions as the Head of Discipline may prescribe.

4.9 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 Council may from time to time prescribe. Students must complete the set time for each clinical attachment. If this is not met a supplementary placement will be negotiated. If before the census date, a student finds they are unable to complete a clinical attachment due to circumstances such as illness, they may withdraw and re-enrol in the course in the following year. If after the census date they are unable to complete the placement due to circumstances such as illness, their mark may be withheld until the required clinical time is completed.

5 Qualification requirements

5.1 Academic program

To qualify for the Bachelor degree a candidate shall:

- (a) Regularly attend lectures and PBL sessions
- (b) satisfactorily participate in tutorial, practical and project work and clinical attachments
- (c) present passes in the following courses to the value of 72 units.

5.1.1 Level I

Semester 1

Human Sciences IA	6
Nursing Practice IA	6

Semester 2

Human Sciences IB	6
Nursing Practice IB	6

5.1.2 Level II

Semester 1

Human Sciences IIA	6
Nursing Practice IIA	6

Semester 2

Human Sciences IIB	6
Nursing Practice IIB	6

5.1.3 Level III

Semester 1

Human Sciences IIIA	6
Nursing Practice IIIA	6

Semester 2

Human Sciences IIIB	6
Nursing Practice IIIB	6

5.2 A Student must:

- (a) pass all modules within each course to pass the course *and*
- (b) pass all courses in each semester before progressing to the next semester of study.

5.3 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.

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.

5.4 Practical experience

Significant practical experience will be required as part of the Nursing Practice courses. Clinical placements facilitating this experience will not be restricted to the university teaching semesters.

5.4.1 Uniform

During their nursing practice placements students will be required to comply with the Discipline of Nursing dress standards.

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 Rules for the admission of nursing students to the practice of the teaching hospitals, health centres

- 6.1 Nursing students admitted to the practice of a Teaching Hospital or Health Centre shall be under the control of the Nursing Director in relation to matters of common discipline; the University will otherwise be responsible for matters related to education.
- 6.2 Whilst on Clinical Placement a student must be able to produce, on demand, a copy of their National Police Clearance and their PCI Immunisation Status, to their preceptor and/or nurse in charge of the ward.
- 6.3 No student shall publish the report of any case without the permission of the Hospital Board or Health Centre Management Committee and the Clinical Nurse Consultant under whose care the patient is or has been.
- 6.4 Except in the performance of his/her clinical duties, no student may disclose any information whatsoever concerning a patient without the permission of both the patient and the Clinical Nurse Consultant in charge.
- 6.5 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.
- 6.6 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 Nursing Director or his/her deputy.
- 6.7 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.
- 6.8 During any period of residence the student will comply with the directions of the Nursing Director of the Hospital or Health Centre in respect of discipline and general conduct.
- 6.9 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 there from.
- 6.10 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 Clinical Nurse Consultant 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 Department of Clinical Nursing and the Executive Dean of the Faculty of Health Sciences (or his/her deputy). The committee should also normally include a representative of the Student Union. 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.

- 6.11 Students who demonstrate unsatisfactory professional behaviour may be referred to the Faculty 'Professional Behaviour Panel' (PBP). The PBP is empowered to refer students for compulsory counselling, to the Dean for disciplinary action or to the Director, Student and Staff Services for initiation of proceedings under the University's Rules for Student Conduct, where this is appropriate.

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.

Graduate Attributes

Bachelor of Nursing

The Bachelor of Nursing seeks to produce a graduate who is well-prepared, both academically and clinically, to meet the ongoing changes and challenges of a 21st century healthcare system. Graduates will have the professional knowledge, skills and attitudes required to function in the role of a registered nurse, according to the Australian Nursing Council National Competency Standards for Registered Nurses and will be able to function in accordance with the professional codes of ethics and conduct as described by the Australian Nursing Council.

Nursing graduates will be particularly distinguished by the following attributes:

- The potential to work as team leaders and managers and undertake the role of case management and care coordination
- A rigorous academic knowledge of the human sciences that inform nursing practice
- The clinical and technological skills required to provide high quality effective nursing care
- The attitudes and skills to practice person-centred nursing in a culturally sensitive and ethically sound manner
- Being able to use critical thinking skills and knowledge to problem solve in their nursing practice
- Highly developed communication skills and sound interpersonal skills to work effectively as members of the multidisciplinary team and to provide quality nursing care
- Being able to critically analyse in order to evaluate the evidence and make decisions and implement nursing care based on the best available evidence
- Being committed to and having the skills to continue life long learning to advance their nursing practice and provide high quality nursing care
- Being able to work effectively both independently and as members of the nursing and multidisciplinary team in a variety of health care setting
- Being well equipped to practice as a registered nurse in an technological environment. This means being flexible, receptive and knowledgeable regarding technology, being literate in health informatics and general information technology and being able to best use this to provide quality nursing care
- Being able to effectively integrate skills and knowledge in order to facilitate quality nursing care
- Having a sound understanding of the dynamics of the health care system and the sociological, cultural and political influences that influence professional practice
- Being prepared to practice and promote safe practice in accordance with legislation and professional codes
- The knowledge, skills and attitudes to practice in a health system that has an increasing emphasis on health, health promotion and primary health care services
- The knowledge and willingness required to contribute to the professional development of other nurses.



Bachelor of Oral Health

1 General

There shall be a degree of Bachelor of Oral Health.

2 Duration of program

The program of study for the degree of 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 Enrolment

3.1 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
- (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 School of Dentistry to intermit their program for 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 and 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 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.

In addition there shall be a classification of Conceded Pass. Courses for which a result of Conceded Pass has been obtained shall not satisfy prerequisite requirements and may not be presented as a credit towards the award of the Bachelor of Oral Health. It is a requirement that all courses are completed at a Pass level or better in order to progress to the following year and to meet the academic requirements of the program.

4.2 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.

4.3 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.

4.4 A candidate who fails a course or who obtains a Conceded Pass shall, unless exempted wholly or partially therefrom by the Dean of the School of Dentistry, 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 School of Dentistry may prescribe, in other course(s) of an annual examination.

- 4.5 A candidate who has twice failed to obtain a Pass in the examination in any course for the Degree may not enrol for that course again except by special permission of the School of Dentistry and then only under such conditions as School of Dentistry 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 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 centres as required for their clinical instruction.

5.2 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:

ORAL HLTH 1200HO

First Annual Oral Health Examination:

ORAL HLTH 1201 AHO/BHO Dental and Health Science I OH Part 1 & 2 6

ORAL HLTH 1202 AHO/BHO Clinical Practice IOH Part 1 & 2 8

ORAL HLTH 1203 AHO/BHO Human Biology IOH Part 1 & 2 6

ORAL HLTH 1204 AHO/BHO General Studies IOH Part 1 & 2 4

The following are the courses of study for:

ORAL HLTH 2200HO

Second Annual Oral Health Examination:

ORAL HLTH 2201 AHO/BHO Dental and Health Science II OH Part 1 & 2 4

ORAL HLTH 2202 AHO/BHO Clinical Practice IOH Part 1 & 2 12

ORAL HLTH 2203 AHO/BHO Human Biology IOH Part 1 & 2 4

ORAL HLTH 2204 AHO/BHO General Studies IOH Part 1 & 2 4

The following are the courses of study for:

ORAL HLTH 3200HO

Third Annual Oral Health Examination:

ORAL HLTH 3201 AHO/BHO Dental and Health Science III OH Part 1 & 2 8

ORAL HLTH 3202 AHO/BHO Clinical Practice IOH Part 1 & 2 12

ORAL HLTH 3204 AHO/BHO Oral Health Electives IOH Part 1 & 2 4

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

- 5.3.1 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 School of Dentistry; 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 School of Dentistry; 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 School of Dentistry.

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 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 School of Dentistry mandates. Except by permission of the School of Dentistry 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 45%. Students shall not be awarded more than two supplementary examinations on academic grounds per year.

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.

Graduate Attributes

Bachelor of Medicine & Bachelor of Oral Health

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.

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 Psychological Science

1 General

- 1.1 There shall be a degree of Bachelor of Psychological Science.

2 Duration of Program

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

3 Admission Requirements

- 3.1 Status, exemption and credit transfer
 - 3.1.1 In determining a candidate's eligibility for the award of the degree, the School may disallow any course passed more than 10 years previously. Credit for other courses may be allowed at the discretion of the Head of the School 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 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

- 4.1 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

Note To students commencing this program in 2008

This program is currently under review, and there may be changes to the structure and the courses offered in this program from 2009. While the courses listed at Level I reflect the courses available in 2008, courses listed at higher levels should be considered as indicative only.

Students commencing study in 2008 will be provided with access to the revised Academic Program Rules for this program as part of their enrolment process. The revised Rules will be available from the following web address: www.adelaide.edu.au/calendar

- 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) and 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 Psychological Science 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 Psychological Science degree to a standard acceptable to the Faculty may apply for admission to the Bachelor of Psychology (Honours) program.

6.3 Academic Program

Level I

- PSYCHOL 1000 Psychology IA.....3
 - PSYCHOL 1001 Psychology IB.....3
- plus courses to the value of at least 18 units selected from the following:

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 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 and Academic Program Rule 5.1 of the degree of Bachelor of Social Sciences.

Mathematical and Computer Sciences

Level I courses listed under Academic Program Rule 4.2 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 5.6 of the degree of Bachelor of Science.

Level II

PSYCHOL 2001 Psychological Research Methodology II	
PSYCHOL 2002 Psychology IIA.....	4
PSYCHOL 2003 Psychology IIB.....	4

plus other Level 2 courses from the list below to the value of at least 12 units:

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 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 and Academic Program Rule 5.1 of the degree of Bachelor of Social Science.

Mathematical and Computer Sciences

Level II courses listed under Academic Program Rule 4.2 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 5.6 of the degree of Bachelor of Science.

Level III

PSYCHOL 3000 Psychological Research Methodology III.....	4
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plus other Psychology courses from the list shown below to the value of at least 14 units:

PSYCHOL 3003 Developmental Psychology 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
PSYCHOL 3017 Health Psychology III.....	2
PSYCHOL 3018 Cognition III.....	2
PSYCHOL 3019 Perception III.....	2

plus other Level III courses from the following list:

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 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 and Academic Program Rule 5.1 of the degree of Bachelor of Social Science.

Mathematical and Computer Sciences

Level III courses listed under Academic Program Rule 4.2 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 5.6 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.

Graduate Attributes

Bachelor of Psychological Science

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)

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 School 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 School of Psychology.

i No level IV units may be presented.

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 courses to the value of 24 units 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 Psychological Science 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 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 70 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 Faculty 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

Note To students commencing this program in 2008

This program is currently under review, and there may be changes to the structure and the courses offered in this program from 2009. While the courses listed at Level I reflect the courses available in 2008, courses listed at higher levels should be considered as indicative only.

Students commencing study in 2008 will be provided with access to the revised Academic Program Rules for this program as part of their enrolment process. The revised Rules will be available from the following web address: www.adelaide.edu.au/calendar

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 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
- (d) PSYCHOL 4000 A/B Honours Psychology (24 units).

All other components (a total of 72 units) must be completed before undertaking the Fourth Year program.

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.....	3
PSYCHOL 1001 Psychology IB.....	3

Plus courses to the value of at least 18 units selected from the following:

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 and Academic Program Rule 5.1 of the degree of Bachelor of Social Sciences.

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.

Sciences

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.....	4
PSYCHOL 2002 Psychology IIA.....	4
PSYCHOL 2003 Psychology IIB.....	4

plus other Level 2 courses from the list below to the value of at least 12 units:

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 and Academic Program Rule 5.1 of the degree of Bachelor of Social Sciences.

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.

Sciences

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.....	4
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plus other Psychology courses from the list shown below to the value of at least 14 units:

PSYCHOL 3003 Developmental Psychology 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
PSYCHOL 3017 Health Psychology III.....	2
PSYCHOL 3018 Cognition III.....	2
PSYCHOL 3019 Perception III.....	2

Plus other Level III courses from the following list:

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 and Academic Program Rule 5.1 of the degree of Bachelor of Social Sciences.

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.

Sciences

Level III courses listed under Academic Program Rule 5.9.7 of the degree of Bachelor of Science.

Level IV

PSYCHOL 4000 A/B Honours Psychology24

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.

Graduate Attributes

Bachelor of Psychology (Honours)

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 issue.

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.

Bachelor of Science in Dentistry (Honours)

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 School of Dentistry, 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 passed the Third Annual BDS examination or completed the Bachelor of Oral Health degree or an appropriate undergraduate degree or equivalent
- (b) have completed the prerequisite work, or work accepted by the School of Dentistry as appropriate for the proposed program of study and
- (c) 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 the following discipline:

DENT 4100 AHO/BHO Honours Dentistry

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; completion of the Bachelor of Oral Health degree; or a bachelor degree in another field of study that the School of Dentistry deems equivalent.

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.



Academic Program Rules

Faculty of Humanities and Social Sciences

Contents

Diploma in Languages Dip.Lang.	197
Bachelor of Arts B.A.	199
Bachelor of Development Studies B.Develop.St.	214
Bachelor of Environmental Policy and Management B.Env.Policy & Mgt.	217
Bachelor of International Studies B.Int.St.	220
Bachelor of Media B.Media	223
Bachelor of Social Sciences B.Soc.Sc.	226
Bachelor of Arts (Honours) B.A (Hons).....	229
Bachelor of Development Studies (Honours) B.Develop.St. (Hons).....	231
Bachelor of Environmental Studies (Honours) B.Env.St. (Hons).....	233
Bachelor of International Studies (Honours) B.Int.St (Hons).....	235
Bachelor of Media (Honours) B.Media (Hons).....	237
Bachelor of Social Sciences (Honours) B.Soc.Sc. (Hons).....	239
Bachelor of Arts and Bachelor of Science B.A./B.Sc (See under Bachelor of Science).....	340

Undergraduate Awards

- 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 Development Studies
- Degree of Bachelor of Environmental Policy and Management
- 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 Development Studies
- Honours degree of Bachelor of Environmental Studies
- Honours degree of Bachelor of International Studies

- Honours degree of Bachelor of Media
- Honours degree of Bachelor of Social Sciences

* Please note there will be no further intake into these programs. Rules are listed in the 2007 Undergraduate Calendar.

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 of 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.

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

Note To students commencing this program in 2008

This program is currently under review, and there may be changes to the structure and the courses offered in this program from 2009. While the courses listed at Level I reflect the courses available in 2008, courses listed at higher levels should be considered as indicative only.

Students commencing study in 2008 will be provided with access to the revised Academic Program Rules for this program as part of their enrolment process. The revised Rules will be available from the following web address: www.adelaide.edu.au/calendar

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)

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.

Note: There will be no further intake into the Bachelor of Arts (Asian Studies) or Bachelor of Arts (European Studies).

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

3.1 Status, exemption and credit transfer

The following status rules apply to the Bachelor of Arts and the named degrees, Bachelor of Development Studies, Bachelor of Media, Bachelor of Social Sciences, Bachelor of Environmental Policy and Management 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 Development Studies, Bachelor of Economics, Bachelor of Environmental Policy and Management, 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 Development Studies, Bachelor of Media, Bachelor of Environmental Policy and Management 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 courses in the BA and Arts courses 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 & 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

Note To students commencing this program in 2008

This program is currently under review, and there may be changes to the structure and the courses offered in this program from 2009. While the courses listed at Level I reflect the courses available in 2008, courses listed at higher levels should be considered as indicative only.

Students commencing study in 2008 will be provided with access to the revised Academic Program Rules for this program as part of their enrolment process. The revised Rules will be available from the following web address: www.adelaide.edu.au/calendar

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 4 units chosen from those listed in 6.12.2 Humanities and Social Sciences courses
- (e) 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

- (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
 Development Studies *#
 Economics *
 English
 European Studies#
 French Studies
 Gender, Work and Social Inquiry *
 Geographical and Environmental Studies *
 German Studies
 History *
 Indonesian
 International Studies* #
 Italian
 Japanese
 Latin
 Linguistics *
 Mathematics
 Media and Communication *#~
 Modern Greek
 Music Studies
 Philosophy *
 Politics*
 Psychology * +
 Spanish

* *Social Science areas of study*

Interdisciplinary areas of study

~ *Only available to students who commenced their degree prior to 2007.*

+ *major sequence must include PSYCHOL*

2001 Psychological Research Methodology II and

PSYCHOL 3000 Psychological Research Methodology III

- (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.

* *There will be no further intake into this program*

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.

** There will be no further intake into this program*

6 All Degrees

The following rules apply to the Bachelor of Arts and the named degrees, the Bachelor of Development Studies, Bachelor of Media, Bachelor of Social Sciences, Bachelor of Environmental Policy and Management 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 an 'incompatible' 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 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 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

6.12.1 Level I Humanities & Social Sciences courses

Anthropology

Semester 1

ANTH 1102 Introducing Social Anthropology 3

Semester 2:

ANTH 1104 Culture & Society:
Foundations of Anthropology 3

Asian Studies

Semester 1

ASIA 1102 Introduction to
Japanese Society and Culture 3

Semester 2

ASIA 1101 Introduction to Chinese
Society and Culture 3

ASIA 1103 Asia and the World 3

Chinese

Semester 1

CHIN 1001 Chinese IA 3

CHIN 1011 Chinese ISA 3

CHIN 1013 Classical Chinese Texts 3

Semester 2

CHIN 1002 Chinese IB 3

CHIN 1012 Chinese ISB 3

CHIN 1014 Chinese Literature & Media 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

CLAS 1001 Classics: From Egypt
to Ancient Greece 3

Semester 2

CLAS 1002 Classics: From Ancient
Greece to Rome 3

Development Studies

Semester 1

DEVT 1001 Introduction to
Development Studies 3

Economics

Semester 1

ECON 1000 Principles of Macroeconomics I 3

ECON 1002 Australia and 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

Semester 2

ECON 1000 Principles of Macroeconomics I 3

ECON 1004 Principles of Microeconomics I 3

ECON 1008 Business Data Analysis I 3

ECON 1009 International Financial
Institutions and Markets 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 1105 Film Studies 3

ENGL 1104 Professional English (ESL) 3

European Studies

Semester 2

EUST 1000 Modern Imagination in Europe 3

Faculty Courses

Semester 1

ARTS 1006 ReOrientation:
Humanities & Social Sciences at Uni 3

French Studies

Semester 1	
FREN 1002 French IA: Beginners' French.....	3
FREN 1011 French ISA: Language and Culture....	3
Semester 2	
FREN 1003 French IB: Beginners' French.....	3
FREN 1012 French ISB: Language and Culture....	3

Gender, Work and Social Inquiry

Semester 1	
GWSI 1001 Social Sciences in Australia	3
GWSI 1004 Introduction to Gender Studies	3
Semester 2	
GWSI 1002 Image, Text & Representation	3
GWSI 1003 Gender, Work and Society	3

Geographical and Environmental Studies

Semester 1	
GEST 1002 Footprints on a Fragile Planet	3
Semester 2	
GEST 1001 Globalisation, Justice and a Crowded Planet	3
GEST 1003 Thinking Economically.....	3

German Studies

Semester 1	
GERM 1002 German IA: Beginners' German.....	3
GERM 1011 German Studies ISA.....	3
Semester 2	
GERM 1003 German IB: Beginners' German.....	3
GERM 1012 German Studies ISB.....	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 A.....	3
INDO 1011 Indonesian Introductory SA.....	3
Semester 2	
INDO 1002 Indonesian Introductory B.....	3
INDO 1012 Indonesian Introductory SB.....	3

Italian

Semester 1	
ITAL 1001 Italian IA.....	3
Semester 2	
ITAL 1002 Italian IB.....	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 & Ethnography of Communication	3

Mathematics

See syllabus entries for Mathematics, in Faculty of Engineering, Computer & Mathematical Sciences section, for available courses.

Media

Semester 1	
MDIA 1002 Introduction to Media: Digital Revolutions.....	3

Modern Greek

Semester 1	
MGRE 1001 Modern Greek IA.....	3
Semester 2	
MGRE 1002 Modern Greek IB.....	3

Music Studies

Semester 1	
MUSCORE 1007 Introduction to Theory & Analysis of Music I	3
MUSCORE 1009 Foundations of Music History IA	3
Semester 2	
GENMUS 1003 Musics of the World I	3
GENMUS 1014 Sound & Media Technology I.....	3
MUSCORE 1008 Contrapuntal Analysis & Composition I.....	3
MUSCORE 1010 Foundations of Music History IB	3

Philosophy

Semester 1	
PHIL 1101 Argument and Critical Thinking.....	3
PHIL 1102 Mind, Knowledge and God.....	3

Semester 2	
PHIL 1103 Morality, Society and the Individual3	
PHIL 1110 Logic I: Beginning Logic.....3	
Physics	
Semester 2	
PHYSICS 1005 Physics, Ideas and Society I..... 3	
Politics	
Semester 1	
POLI 1103 Justice, Liberty, Democracy: Debates & Directions.....3	
POLI 1104 Introduction to Comparative Politics...3	
Semester 2	
POLI 1101 Introduction to Australian Politics3	
POLI 1102 Introduction to International Politics ...3	
Psychology	
Semester 1	
PSYCHOL 1000 Psychology IA.....3	
Semester 2	
PSYCHOL 1001 Psychology IB.....3	
Spanish	
Semester 1	
SPAN 1003 Spanish IA.....3	
SPAN 1005 Spanish ISA3	
Semester 2	
SPAN 1004 Spanish IB3	
SPAN 1006 Spanish ISB3	

6.12.2 Level II Humanities & Social Sciences courses

Anthropology

Semester 1	
ANTH 2003 Anthropology of Health and Medicine4	
ANTH 2021 Anthropology of Development4	
ANTH 2022 Popular Culture: Passion, Style, Vibe4	
ANTH 2024 Anthropology of Conflict & Crisis4	
Semester 2	
ANTH 2023 Anthropology of Emotion, Mind & Person.....4	
ANTH 2025 South East Asian Buddhist Social Worlds.....4	
ANTH 2026 Consuming Passions: Anthropology of Food and Drink4	
ANTH 2027 Poverty and Social Development.....4	
ANTH 2028 ICT for Development.....4	
ANTH 2030 Ethnography: Engaged Social Research4	

Asian Studies

Semester 1	
ASIA 2002 Asian Studies (core topic)4	
ASIA 2008 Contemporary China: Politics & Society.....4	
ASIA 2015 Politics and Foreign Policy in Contemporary Japan4	
Semester 2	
ASIA 2003 Australia and the Asia Pacific.....4	
ASIA 2012 Contemporary Japan: Culture and Identity4	
ASIA 2016 Religions of China.....4	
ECON 2003 East Asian Economies II.....4	

Chinese

Semester 1	
CHIN 2001 Chinese IIA.....4	
CHIN 2011 Chinese IISA.....4	
Semester 2	
CHIN 2002 Chinese IIB.....4	
CHIN 2012 Chinese IISB.....4	

Classical Languages

Semester 1	
AGRE 2002 Ancient Greek IIA4	
AGRE 2102 Introduction to Latin and Ancient Greek IIS.....4	
LATN 2002 Latin IIA4	
Semester 2	
AGRE 2003 Ancient Greek IIB4	
AGRE 2101 Ancient Greek IIS4	
LATN 2003 Latin IIB4	
LATN 2010 Latin IIS4	

Classical Studies

Semester 1	
CLAS 2004 Classical Mythology.....4	
CLAS 2007 Archaeology of Rome.....4	
Semester 2	
CLAS 2009 Alexander the Great & the Decline of Greece4	
CLAS 2010 The Glory of Athens & the Shadow of Sparta4	
CLAS 2013 Archaeology of the Roman Provinces4	
CLAS 2020 Afterlife and Underworld in Antiquity4	
Summer Semester	
CLAS 2021 Eastern Mediterranean Archaeological Field School4	

Development Studies

Semester 1	
DEVT 2001 Gender, Community & Development	4

Economics

Semester 1	
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
ECON 2012 Financial Economics II.....	4
Semester 2	
ECON 2000 International Trade and Investment Policy II.....	4
ECON 2001 Resource & Environmental Economics II.....	4
ECON 2003 East Asian Economies II.....	4
ECON 2006 Economic & Financial Data Analysis II.....	4
ECON 2009 Consumers, Firms and Markets II.....	4
ECON 2011 Macroeconomic Theory & Policy II.....	4
ECON 2012 Financial Economics II.....	4

English

Semester 1	
ENGL 2009 A Festival of Contemporary Writing....	4
ENGL 2016 English for Professional Purposes.....	4
ENGL 2021 Women's Writing: The Nineteenth Century	4
ENGL 2031 Hollywood or Bust!	4
ENGL 2032 Australian Classics: Literature & Film.....	4
Semester 2	
ENGL 2015 Dangerous Liaisons: Writing Out of Africa.....	4
ENGL 2026 Self Writing	4
ENGL 2029 Reading and Writing Poetry	4
ENGL 2040 The Art of Crime: Fictions of Transgression.....	4
ENGL 2104 Professional English (ESL)	4
Summer Semester	
ENGL 2034 Representing Truth & Reconciliation ...	4

European Studies

Semester 1	
EUST 2015 Music and Politics: German Song and Society.....	4
Semester 2	
EUST 2013 European Film Movements	4
EUST 2014 Ancient Philosophy: Wise Men, Critics & Cranks.....	4

Faculty Courses

Semester 1 or 2	
EXCHANGE 1003H&SS International Exchange - HUMSS (3 units).....	3
EXCHANGE 1004H&SS International Exchange - HUMSS (4 units).....	4
EXCHANGE 1006H&SS International Exchange - HUMSS (6 units).....	6
EXCHANGE 1009H&SS International Exchange - HUMSS (9 units).....	9
EXCHANGE 1010H&SS International Exchange - HUMSS (10 units).....	10
EXCHANGE 1012H&SS International Exchange - Humanities/Social Science.....	12

French Studies

Semester 1	
FREN 2002 French IIA: Language and Culture	4
FREN 2007 French Studies II.....	4
FREN 2011 French IISA: Language & Culture.....	4
Semester 2	
FREN 2003 French IIB: Language & Culture	4
FREN 2007 French Studies.....	4
FREN 2012 French IISB: Language & Culture.....	4

Gender, Work and Social Inquiry

Semester 1	
GWSI 2003 Gender & Race in Australian History ...	4
GWSI 2012 Fashion, Work & Identity	4
Semester 2	
GWSI 2015 Social Research	4
GWSI 2016 Gender, Social Policy & Citizenship in Australia.....	4

Geographical and Environmental Studies

Semester 1	
GEST 2009 Introduction to Environmental Impact . Assessment	4
GEST 2020 Urban Futures: Environmental and Social Issues.....	4
GEST 2021 Resource Scarcity and Allocation	4
GEST 2022 Introductory Geographic Information Systems	4
GEST 2025 Environment & Development	4
GEST 2100 Social Science Techniques.....	4
Semester 2	
GEST 2011 Biogeography and Biodiversity Conservation.....	4
GEST 2016 Population, Environment & Health.....	4
GEST 2026 Climate Change & Catchment Management	4

German Studies

Semester 1

GERM 2002 German Studies IIA: Language & Culture	4
GERM 2008 German Special Topic II	4
GERM 2011 German Studies IISA: Language & Culture	4

Semester 2

GERM 2003 German Studies IIB: Language & Culture	4
GERM 2008 German Special Topic II	4
GERM 2012 German Studies IISB: Language & Culture	4

Summer Semester

GERM 2005 German in Germany.....	4
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History

Semester 1

HIST 2017 History of Indigenous Peoples of Australia A	4
HIST 2018 Imperial Russia	4
HIST 2022 Islam, Army & State: Indonesia Since 1945	4
HIST 2042 Medieval Europe: The Crusades to the Black Death	4
HIST 2046 War and Revolution in Germany & Central Europe: 1914-1990	4
HIST 2049 Painters of Modern Life	4

Semester 2

HIST 2004 Australia and the World in the Twentieth Century	4
HIST 2021 Modern France: From Revolution to Resistance	4
HIST 2031 Ethnic Cleansing and Genocide in Modern Europe.....	4
HIST 2041 Aboriginal Peoples and the Colonial World	4
HIST 2047 Early Modern Europe.....	4
HIST 2048 Food & Drink in World History	4
HIST 2050 Australian Art	4

Indonesian

Semester 1

INDO 2001 Indonesian Intermediate A.....	4
INDO 2004 Indonesian In-Country	4
INDO 2011 Indonesian Intermediate SA.....	4

Semester 2

INDO 2002 Indonesian Intermediate B.....	4
INDO 2004 Indonesian In-Country	4
INDO 2012 Indonesian Intermediate SB.....	4

International Studies

Semester 2

INST 2001 International Studies (core topic)	4
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Italian

Semester 1

ITAL 2001 Italian IIA	4
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Semester 2

ITAL 2002 Italian IIB	4
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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

Linguistics

Semester 1

LING 2006 Language and Meaning	4
LING 2030 Language & Communication Planning.....	4
LING 2035 Morphology & Syntax	4

Semester 2

LING 2009 Australian Indigenous Languages.....	4
LING 2011 Mass Communicative Discourses	4
LING 2034 Language Learning.....	4

Mathematics

See syllabus entries for Mathematics for available courses.

Modern Greek

Semester 1

MGRE 2001 Modern Greek IIA.....	4
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Semester 2

MGRE 2002 Modern Greek IIB.....	4
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Music Studies

Semester 1

GENMUS 2012 Village Voices: Greenwich in the 1960s II (Arts)	4
MUSCORE 2005 Western Music in Theory & Practice IIA: 1750-1850	3
MUSST 2001 Approaches to Music IIA	3

Semester 2

GENMUS 2009 Music, Media & Contemporary Society II (Arts).....	4
GENMUS 2014 Music & Ideology II (Arts).....	4
MUSCORE 2006 Western Music in Theory & Practice IIB: 1850-1950	3
MUSST 2002 Approaches to Music IIB	3

Philosophy	
Semester 1	
PHIL 2011 Moral Problems	4
PHIL 2013 Philosophy of Science	4
PHIL 2021 Justice & Power: Contemporary Political Philosophy	4
PHIL 2023 Professional Ethics	4
PHIL 2027 Metaphysics: Identity, Time & Freedom.....	4
Semester 2	
PHIL 2002 Crime and Punishment	4
PHIL 2003 Cognitive Science: Minds, Brains and Computers	4
PHIL 2025 Philosophy of Art: Knowledge, Emotion & Intention	4
PHIL 2028 Existentialism	4
Physics	
Semester 2	
Physics 2008 Physics, Ideas and Society II	4
Politics	
Semester 1	
POLI 2002 Comparative Politics	4
POLI 2009 Justice, Virtue and the Good.....	4
POLI 2017 Passions & Interests: The History of Greed	4
POLI 2021 Gender, International Politics & Development	4
POLI 2022 The Ethics of War & Peace	4
POLI 2071 Issues in Australian Politics	4
POLI 2081 Post- Cold War International Relations	4
Semester 2	
POLI 2010 Modern Political Theory.....	4
POLI 2020 China Rising.....	4
POLI 2023 Theories of International Politics	4
POLI 2062 State of the World	4
Psychology	
Semester 1	
PSYCHOL 2001 Psychological Research Methodology II.....	4
PSYCHOL 2002 Psychology IIA.....	4
Semester 2	
PSYCHOL 2001 Psychological Research Methodology II (repeat).....	4
PSYCHOL 2003 Psychology IIB.....	4
Spanish	
Semester 1	
SPAN 2001 Spanish IIA.....	4
Semester 2	
SPAN 2002 Spanish IIB.....	4

6.12.3 Level III Humanities & Social Sciences courses

Anthropology	
Semester 1	
ANTH 3003 Anthropology of Health and Medicine	6
ANTH 3021 Anthropology of Development	6
ANTH 3022 Popular Culture: Passion, Style, Vibe	6
ANTH 3024 Anthropology of Conflict & Crisis	6
Semester 2	
ANTH 3023 Anthropology of Emotion, Mind & Person.....	6
ANTH 3025 South East Asian Buddhist Social Worlds.....	6
ANTH 3026 Consuming Passions: Anthropology of Food and Drink.....	6
ANTH 3028 ICT for Development.....	6
ANTH 3030 Ethnography: Engaged Social Research.....	6
Asian Studies	
Semester 1	
ASIA 3008 Contemporary China: Politics & Society.....	6
ASIA 3015 Politics and Foreign Policy in Contemporary Japan	6
Semester 2	
ASIA 3012 Contemporary Japan: Culture and Identity	6
ASIA 3016 Religions of China.....	6
Chinese	
Semester 1	
CHIN 3001 Chinese IIIA	6
CHIN 3003 Chinese for Chinese Speakers IIIA	6
CHIN 3011 Chinese IIISA.....	6
Semester 2	
CHIN 3002 Chinese IIIB	6
CHIN 3004 Chinese for Chinese Speakers IIIB	6
CHIN 3012 Chinese IIISB.....	6
Classical Languages	
Semester 1	
AGRE 3002 Ancient Greek IIIA	6
AGRE 3011 Ancient Greek IIISA.....	6
LATN 3002 Latin IIIA	6
LATN 3011 Latin IIISA.....	6
Semester 2	
AGRE 3003 Ancient Greek IIIB	6
AGRE 3012 Ancient Greek IIISB.....	6
LATN 3003 Latin IIIB	6
LATN 3012 Latin IIISB.....	6

Classical Studies

Semester 1

CLAS 3004 Classical Mythology.....	6
CLAS 3007 Archaeology of Rome.....	6
CLAS 3010 The Glory of Athens & the Shadow of Sparta	6

Semester 2

CLAS 3009 Alexander the Great & the Decline of Greece	6
CLAS 3013 Archaeology of the Roman Provinces.	6
CLAS 3020 Afterlife and Underworld in Antiquity.....	6

Summer Semester

CLAS 3021 Eastern Mediterranean Archaeological Field School	6
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Development Studies

Semester 1

DEVT 3001 Gender, Community & Development	6
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Economics

Semester 1

ECON 3006 Development Economics III	4
ECON 3013 Applied Econometrics III	4
ECON 3021 International Trade III	4
ECON 3024 Public Economics III	4
ECON 3035 Money, Banking and Financial Markets.....	4

Semester 2

ECON 3003 Resource and Environmental Economics III	4
ECON 3016 Strategic Thinking for Decision Makers III	4
ECON 3037 Public Finance III.....	4
ECON 3023 Econometrics III.....	4
ECON 3030 International Economic History III.....	4
ECON 3032 International Finance III	4
ECON 3034 Economic Theory III.....	4

English

Semester 1

ENGL 3009 A Festival of Contemporary Writing.....	6
ENGL 3016 English for Professional Purposes.....	6
ENGL 3021 Women's Writing: The Nineteenth Century	6
ENGL 3031 Hollywood or Bust!	6
ENGL3032 Australian Classics: Literature & Film	6

Semester 2

ENGL 3015 Dangerous Liaisons: Writing Out of Africa.....	6
ENGL 3026 Self Writing.....	6
ENGL 3029 Reading and Writing Poetry	6
ENGL 3040 The Art of Crime: Fictions of Transgression	6

Summer Semester

ENGL 3034 Representing Truth & Reconciliation ...	6
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European Studies

Semester 1

EUST 3015 Music and Politics: German Song and Society	6
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Semester 2

EUST 3013 European Film Movements	6
EUST 3014 Ancient Philosophy: Wise Men, Critics & Cranks.....	6

Faculty Courses

Semester 1 or 2

EXCHANGE 1003H&SS International Exchange - HUMSS (3 units)	3
EXCHANGE 1004H&SS International Exchange - HUMSS (4 units)	4
EXCHANGE 1006H&SS International Exchange - HUMSS (6 units)	6
EXCHANGE 1009H&SS International Exchange - HUMSS (9 units).....	9
EXCHANGE 1010H&SS International Exchange - HUMSS (10 units)	10
EXCHANGE 1012H&SS International Exchange - Humanities/Social Science	12

Semester 2

ARTS 3001 Arts Internship	6
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French Studies

Semester 1

FREN 3002 French IIIA: Language & Culture	6
FREN 3007 French Studies III.....	6
FREN 3011 French IIISA: Language & Culture	6

Semester 2

FREN 3003 French IIIB: Language & Culture	6
FREN 3007 French Studies III.....	6
FREN 3012 French IIISB: Language & Culture	6

Gender, Work and Social Inquiry

Semester 1

GWSI 3003 Gender & Race in Australian History ...	6
GWSI 3012 Fashion, Work & Identity	6

Semester 2

GWSI 3015 Social Research	6
GWSI 3016 Gender, Social Policy & Citizenship in Australia.....	6

Geographical and Environmental Studies	
Semester 1	
GEST 3009 Introduction to Environmental Impact Assessment	6
GEST 3020 Urban Futures: Environmental and Social Issues	6
GEST 3021 Resource Scarcity and Allocation	6
GEST 3022 Introductory Geographic Information Systems	6
GEST 3025 Environment & Development	6
Semester 2	
GEST 3011 Biogeography and Biodiversity Conservation	6
GEST 3016 Population, Environment & Health.....	6
GEST 3026 Climate Change & Catchment Management	6
GEST 3100 Environmental Studies Internship.....	6
German Studies	
Semester 1	
GERM 3002 German Studies IIIA: Language & Culture	6
GERM 3008 German Special Topic III	6
GERM 3011 German Studies IIISA: Language & Culture	6
Semester 2	
GERM 3003 German Studies IIIB: Language & Culture	6
GERM 3008 German Special Topic II	6
GERM 3012 German Studies IIISB: Language & Culture	6
Summer Semester	
GERM 3005 German in Germany.....	6
History	
Semester 1	
HIST 3017 History of Indigenous Peoples of Australia A	6
HIST 3018 Imperial Russia	6
HIST 3022 Islam, Army & State: Indonesia Since 1945	6
HIST 3042 Medieval Europe: The Crusades to the Black Death	6
HIST 3046 War and Revolution in Germany & Central Europe: 1914-1990	6
HIST 3049 Painters of Modern Life.....	6
Semester 2	
HIST 3004 Australia and the World in the Twentieth Century	6
HIST 3021 Modern France: From Revolution to Resistance	6
HIST 3031 Ethnic Cleansing and Genocide in Modern Europe.....	6
HIST 3041 Aboriginal Peoples and the Colonial World	6
HIST 3047 Early Modern Europe.....	6
HIST 3048 Food & Drink in World History	6
HIST 3050 Australian Art	6
Indonesian	
Semester 1	
INDO 3001 Indonesian Advanced A.....	6
INDO 3004 Indonesian In-Country	6
INDO 3011 Indonesian Advanced SA	6
Semester 2	
INDO 3002 Indonesian Advanced B.....	6
INDO 3004 Indonesian In-Country	6
INDO 3012 Indonesian Advanced SB	6
Italian	
Semester 1	
ITAL 3001 Italian IIIA	6
Semester 2	
ITAL 3002 Italian IIIB	6
Japanese	
Semester 1	
JAPN 3001 Japanese IIIA	6
JAPN 3011 Japanese IIISA	6
JAPN 3090 Japanese for Research A	6
Semester 2	
JAPN 3002 Japanese IIIB	6
JAPN 3012 Japanese IIISB	6
Linguistics	
Semester 1	
LING 3006 Language and Meaning	6
LING 3030 Language & Communication Planning	6
LING 3035 Morphology & Syntax	6
Semester 2	
LING 3009 Australian Indigenous Languages.....	6
LING 3011 Mass Communicative Discourses	6
LING 3034 Language Learning.....	6
Mathematics	
See syllabus entries for Mathematics for available courses.	
Modern Greek	
Semester 1	
MGRE 3001 Modern Greek IIIA.....	6
Semester 2	
MGRE 3002 Modern Greek IIIB.....	6

Music Studies

Semester 1

GENMUS 3012 Village Voices: Greenwich in the 19060s III (Arts) 6

MUSCORE 3005 Western Music in Theory & Practice III: Music Since 1950.....3

MUSST 3001 Approaches to Music III 3

MUSST 3003 Aboriginal Music In Australia II/III ... 3

Semester 2

GENMUS 3009 Music, Media & Contemporary Society III (Arts)..... 6

GENMUS 3014 Music & Ideology III (Arts)..... 6

MUSST 3002 Advanced Music Seminar IIIB 3

MUSST 3005 Foundation for Honours III: Music Studies 3

MUSST 3012 String Quartets of Barkok III 3

MUSST 3014 Rhythm in the 20th Century III..... 3

Philosophy

Semester 1

PHIL 3011 Moral Problems 6

PHIL 3013 Philosophy of Science 6

PHIL 3021 Justice & Power: Contemporary Political Philosophy 6

PHIL 3023 Professional Ethics 6

PHIL 3027 Metaphysics: Identity, Time & Freedom 6

Semester 2

PHIL 3002 Crime and Punishment 6

PHIL 3003 Cognitive Science: Minds, Brains and Computers 6

PHIL 3025 Philosophy of Art: Knowledge, Emotion & Intention 6

PHIL 3028 Existentialism 6

Politics

Semester 1

POLI 3002 Comparative Politics 6

POLI 3009 Justice, Virtue and the Good..... 6

POLI 3017 Passions & Interests: The History of Greed 6

POLI 3021 Gender, International Politics & Development 6

POLI 3022 The Ethics of War & Peace 6

POLI 3071 Issues in Australian Politics 6

POLI 3081 Post- Cold War International Relations 6

Semester 2

POLI 3010 Modern Political Theory..... 6

POLI 3020 China Rising..... 6

POLI 3023 Theories of International Politics 6

POLI 3062 State of the World 6

POLI 3083 South Australian Parliamentary Internship 6

Psychology

Semester 1

PSYCHOL 3000 Psychological Research Methodology III..... 4

PSYCHOL 3013 Learning and Behaviour III 2

PSYCHOL 3014 Individual Differences III..... 2

PSYCHOL 3017 Health Psychology..... 2

PSYCHOL 3018 Cognition III 2

Semester 2

PSYCHOL 3003 Developmental Psychology III 2

PSYCHOL 3009 Metapsychology: Psychology, Science and Society III 2

PSYCHOL 3010 Social Psychology III..... 2

PSYCHOL 3015 Human Relations III..... 2

PSYCHOL 3019 Perception III..... 2

Spanish

Semester 1

SPAN 3001 Spanish IIIA..... 6

Semester 2

SPAN 3002 Spanish IIIB..... 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.

Graduate Attributes

Bachelor of Arts

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 Development Studies

1 General

There shall be a degree of Bachelor of Development 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 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 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

Note To students commencing this program in 2008

This program is currently under review, and there may be changes to the structure and the courses offered in this program from 2009. While the courses listed at Level I reflect the courses available in 2008, courses listed at higher levels should be considered as indicative only.

Students commencing study in 2008 will be provided with access to the revised Academic Program Rules for this program as part of their enrolment process. The revised Rules will be available from the following web address: www.adelaide.edu.au/calendar

5.1 Academic program

To qualify for the degree of Bachelor of Development Studies a candidate shall present passes in courses to a value of 72 units that satisfy the following requirements:

Level I

- (a) DEVT 1001 Introduction to Development Studies.....3
- GEST 1003 Thinking Economically.....3
- (b) Two nominated Development Studies Core courses at 3 units value each to the total value of 6 units:
 - GEST 1001 Globalisation, Justice & a Crowded Planet.....3
 - or
 - GEST 1002 Footprints on a Fragile Planet3
 - ANTH 1101 Introduction to Anthropology3
 - or
 - ANTH 1104 Culture and Society: Foundations of Anthropology.....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 12

Level II

- (d) ANTH 2027 Poverty and Social Development 4
- (e) Two Development Studies electives to the value of 8 units 8
- (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 12

Level III

- (g) ANTH 3021 Anthropology of Development ..6
- (h) Level III Development Studies Electives to the value of 18 units 18

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 6 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.

Graduate Attributes

Bachelor of Development Studies

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 and understanding of the content and techniques of Development Studies at advanced levels that are internationally recognised
- The ability to locate, analyse, evaluate and synthesise information from a wide variety of sources in a planned and timely manner
- An ability to apply effective, creative and innovative solutions, both independently and cooperatively, to current and future problems
- Skills of a high order in interpersonal understanding, teamwork and communication
- A proficiency in the appropriate use of contemporary technologies
- A commitment to continuous learning and the capacity to maintain intellectual curiosity throughout life.



Bachelor of Environmental Policy and Management

1 General

There shall be a degree of Bachelor of Environmental Policy and Management.

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

Note To students commencing this program in 2008

This program is currently under review, and there may be changes to the structure and the courses offered in this program from 2009. While the courses listed at Level I reflect the courses available in 2008, courses listed at higher levels should be considered as indicative only.

Students commencing study in 2008 will be provided with access to the revised Academic Program Rules for this program as part of their enrolment process. The revised Rules will be available from the following web address: www.adelaide.edu.au/calendar

5.1 Academic program

To qualify for the degree of Bachelor of Environmental Policy and Management a candidate shall present passes in courses to a value of 72 units that satisfy the following requirements:

Level I

- (a) GEST 1001 Globalisation, Justice and a Crowded Planet.....3
- GEST 1002 Footprints on a Fragile Planet3
- (b) Courses to the value of 6 units chosen from the following approved Geographical and Environmental Studies electives:
 - GEST 1003 Thinking Economically.....3
 - GEOLOGY 1200 Earth's Environments I3
- (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 12

Level II

- (d) GEST 2020 Urban Futures:
Environmental and Social Issues 4
or
GEST 2011 Biogeography and Biodiversity
Conservation..... 4
- (e) Level II Geographical and Environmental
Studies courses to the value of 8 units 8
- (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 12

Level III

- (g) Level III Geographical and Environmental
Studies (GEST) courses to the value of 24
units (may include GEST 3100 Environmental
Studies: Internship - but a quota applies)..... 24

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 6 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.

Graduate Attributes

Bachelor of Environmental Policy and Management

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

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

Note To students commencing this program in 2008

This program is currently under review, and there may be changes to the structure and the courses offered in this program from 2009. While the courses listed at Level I reflect the courses available in 2008, courses listed at higher levels should be considered as indicative only.

Students commencing study in 2008 will be provided with access to the revised Academic Program Rules for this program as part of their enrolment process. The revised Rules will be available from the following web address: www.adelaide.edu.au/calendar

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 Politics3
- POLI 1104 Introduction to Comparative Politics.....3
- (b) Two courses from the following:
 - ASIA 1103 Asia and the World.....3
 - HIST 1105 Europe Empire and the World 1492 - 1914.....3
 - HIST 1106 The Twentieth Century: A World in Turmoil.....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. 12

Level II

- (d) INST 2001 International Studies (core)4
 - POLI 2002 Comparative Politics.....4
 - POLI 2081 Post-Cold War International Relations4
- (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 12

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 6 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.

Graduate Attributes

Bachelor of International Studies

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

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

Note To students commencing this program in 2008

This program is currently under review, and there may be changes to the structure and the courses offered in this program from 2009. While the courses listed at Level I reflect the courses available in 2008, courses listed at higher levels should be considered as indicative only.

Students commencing study in 2008 will be provided with access to the revised Academic Program Rules for this program as part of their enrolment process. The revised Rules will be available from the following web address: www.adelaide.edu.au/calendar

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) MDIA 1002 Introduction to Media:
 - Digital Revolutions.....3
 - MDIA 1004 Broadcast: Television & Radio.....3
 - MDIA 1005 Critical Histories of The Image3
 - MDIA 1006 Story/Technology:
 - Writing Techniques.....3
- (b) Level I courses to the value of 6 units chosen from those listed in 6.12.1 for the Bachelor of Arts6
- (c) Level I courses to the value of 6 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.6

Level II

- (d) MDIA 2202 Media Policy and Media Law.....4
- MDIA 2204 Media Research Methods4
- MDIA 2207 Global Media:
 Policies & Practices.....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
 Semester 2
- MDIA 2203 Radio Production A4
- MDIA 2205 Multimedia Production A4
- MDIA 2206 Video Production A4

Level III

- (f) MDIA 3301 Professional Practice.....6
- MDIA 3303 Media Theory6
- (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
 Semester 1
- MDIA 3205 Multimedia Production B6
- MDIA 3206 Video Production B6
- MDIA 3304 Radio Production B6
- Semester 2
- MDIA 3305 Directed Study in Media.....6
- Semester 1 or 2
- MDIA 3302 Media Industry Placement.....6
- 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 6 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.

Graduate Attributes

Bachelor of Bachelor of Media

The Faculty of Humanities and Social Sciences facilitates an environment in which graduates are encouraged to take personal responsibility for developing the following attributes. Graduates will:

- Acquire highly developed theoretical, critical and practical skills necessary to function effectively in any field of the media and communication industry
- Acquire excellent research skills including analytical, conceptual and communication skills and written report skills for further study as higher degree students in the Faculty or to use in the workplace
- Acquire the cognitive and critical skills necessary to produce, evaluate and interpret media texts and audiovisual and literary materials
- Be empowered with the understanding of the role and effects of the media and new technologies in everyday life
- Equipped with the necessary research skills to understand and analyse media cultures from a local and global perspective
- Develop an understanding of professional, ethical and cultural policy issues in relation to the media
- Develop an understanding of the impacts of changing media technologies in society
- Acquire the necessary skills required to develop positive interpersonal relationship in their place of work
- Develop skills in teamwork and the ability to work effectively on group projects.



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

Note To students commencing this program in 2008

This program is currently under review, and there may be changes to the structure and the courses offered in this program from 2009. While the courses listed at Level I reflect the courses available in 2008, courses listed at higher levels should be considered as indicative only.

Students commencing study in 2008 will be provided with access to the revised Academic Program Rules for this program as part of their enrolment process. The revised Rules will be available from the following web address: www.adelaide.edu.au/calendar

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) GEST 1001 Globalisation, Justice and a Crowded Planet.....3
GWSI 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 12

Level II

- (d) GEST 2001 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) 8
- (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 12

Level III

- (g) GWSI 3015 Social Research.....6
- (h) Level III Applied Social Science elective course to the value of 6 units6
- (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)..... 12

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
Development Studies
Economics
Gender Work & Social Inquiry
Geographical and Environmental Studies
History
International Studies
Linguistics
Philosophy
Politics
Psychology *

* Major sequence must include:

PSYCHOL 2001 Psychological Research Methodology II
and
PSYCHOL 3000 Psychological Research Methodology III

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 5.3 - 5.12, refer to Rule 6 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.

Graduate Attributes

Bachelor of Bachelor of Social Sciences

The Faculty of Humanities and Social Sciences facilitates an environment in which graduates are encouraged to take personal responsibility for developing the following attributes. Graduates will:

- 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)

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.

2 Duration of program

2.1 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 are listed under 2.2 below.

2.2 Honours over two years is taken to mean two consecutive years. The grounds for granting permission to do Honours over two years are limited to the following:

- (i) students with care-giver responsibilities
- (ii) students in greater than or equal to half time employment
- (iii) students with a significant sickness or disability
- (iv) students enrolled for part of the Honours program in an overseas institution
- (v) compassionate reasons.

In all reasons it should be clear that the student is unable to (rather than chooses not to) complete the requirements on a full-time basis.

Application for permission to spread the work of Honours over two years should be made to the Faculty Registrar before 31 March (or 31 August for students commencing mid year) and will not normally be granted if the students has chosen to enrol in another course concurrently.

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 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 and to ensure that the student does not in effect spread the work of Honours over 2 years.

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 4401 A/B Honours Ancient Greek.....	24
ANTH 4401 A/B Honours Anthropology.....	24
ASIA 4401 A/B Honours Asian Studies.....	24
CHIN 4401 A/B Honours Chinese Studies.....	24
CLAS 4401 A/B Honours Classical Studies.....	24
ENGL 4401 A/B Honours English.....	24
ENGL 4402 A/B Honours Creative Writing.....	24
ETHNO 4004 A/B Honours Ethnomusicology (B.A.).....	24
EUST 4401 A/B Honours European Studies.....	24
FREN 4401 A/B Honours French Studies.....	24
GERM 4401 A/B Honours German Studies.....	24
GEST 4401 A/B Honours Environmental Policy & Management.....	24
GWSI 4401A/B Honours Gender, Work and Social Inquiry.....	24
HIST 4401 A/B Honours History.....	24
INST 4402A/B Honours International Studies.....	24
JAPN 4401 A/B Honours Japanese Studies.....	24
LATN 4401 A/B Honours Latin.....	24
LING 4401 A/B Honours Linguistics.....	24
MUSICOL 4007 A/B Honours Musicology (B.A.)..	24
PHIL 4401 A/B Honours Philosophy.....	24
POLI 4401 A/B Honours Politics.....	24

Students who have been granted permission to study an honours program supervised by two disciplines 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.

Note: 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 Development Studies (Honours)

1 General

There shall be a degree of Bachelor of Development Studies (Honours). It is designed as a one-year degree program to be undertaken following completion of the Bachelor of Development Studies or an approved undergraduate degree.

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 are listed under 2.1 below.

- 2.1 Honours over two years is taken to mean two consecutive years. The grounds for granting permission to do Honours over two years are limited (see rule 2.2 of Bachelor of Arts Honours degree).

In all reasons it should be clear that the student is unable to (rather than chooses not to) complete the requirements on a full-time basis.

Application for permission to spread the work of Honours over two years should be made to the Faculty Registrar before 31 March (or 31 August for students commencing mid year) and will not normally be granted if the students has chosen to enrol in another course concurrently.

3 Admission

- 3.1 Students for the Honours degree shall not begin their Honours work until they have qualified for a Bachelor of Development Studies degree, 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
- has presented for examination in that School but has failed to obtain Honours *or*
 - 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 Development Studies 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 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 and to ensure that the student does not in effect spread the work of Honours over 2 years.

5 Qualification requirements

- 5.1 A student may proceed to the Honours degree, 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 Head of the School/s concerned before enrolment must approve the program of study and dissertation topic for the Honours year for students.
- 5.3 A student may proceed to the Honours degree in the following course or certain approved combinations of courses offered within the Faculty, provided that the student has obtained, before enrolment, the approval of the Head of the School/s concerned:

DEVT 4401 A/B Honours
Development Studies24

Students who have been granted permission to study an honours program supervised by two disciplines will be advised of the appropriate course title and code at the time of 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 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.Dev.St. (Hons) are 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)

1 General

There shall be a degree of Bachelor of Environmental Studies (Honours). It is designed as a one year degree program to be undertaken following completion of the Bachelor of Environmental Policy and Management or an approved undergraduate degree.

2 Duration of program

2.1 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 but not more, under such conditions as are listed under 2.2 below.

2.2 Honours over two years is taken to mean two consecutive years. The grounds for granting permission to do Honours over two years are limited (see rule 2.2 of Bachelor of Arts Honours degree).

In all reasons it should be clear that the student is unable to (rather than chooses not to) complete the requirements on a full-time basis.

Application for permission to spread the work of Honours over two years should be made to the Faculty Registrar before 31 March (or 31 August for students commencing mid year) and will not normally be granted if the students has chosen to enrol in another course concurrently.

3 Admission

3.1 Students for the Honours degree shall not begin their Honours work until they have qualified for a Bachelor degree of Environmental Policy and Management 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 the School or 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, below 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 Environmental Studies 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 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 and to ensure that the student does not in effect spread the work of Honours over 2 years.

5 Qualification requirements

- 5.1 A student may proceed to the Honours degree, 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 proceed to the Honours degree in the following course or certain approved combinations of courses offered within the Faculty, provided that the student has obtained, before enrolment, the approval of the Head of the School/s concerned:

GEST 4401A/B Honours Environmental Policy & Management24

Students who have been granted permission to study an honours program supervised by two disciplines will be advised of the appropriate course title and code at the time of 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 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.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)

1 General

There shall be a degree of Bachelor of International Studies (Honours). It is designed as a one year degree program to be undertaken following completion of the Bachelor of International Studies or an approved undergraduate degree.

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 are listed under 2.2 below.

- 2.2 Honours over two years is taken to mean two consecutive years. The grounds for granting permission to do Honours over two years are limited (see rule 2.2 of Bachelor of Arts Honours degree).

In all reasons it should be clear that the student is unable to (rather than chooses not to) complete the requirements on a full-time basis.

Application for permission to spread the work of Honours over two years should be made to the Faculty Registrar before 31 March (or 31 August for students commencing mid year) and will not normally be granted if the students has chosen to enrol in another course concurrently.

3 Admission

- 3.1 Students for the Honours degree shall not begin their Honours work until they have qualified for a Bachelor degree of International Studies, 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
- has presented for examination in that School but has failed to obtain Honours *or*
 - 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 International Studies 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 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 and to ensure that the student does not in effect spread the work of Honours over 2 years.

5 Qualification requirements

- 5.1 A student may proceed to the Honours degree, 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 proceed to the Honours degree in the following course or certain approved combinations of courses offered within the Faculty, provided that the student has obtained, before enrolment, the approval of the Head of the School/s concerned:
- INST 4401 A/B Honours International Studies24
- Students who have been granted permission to study an honours program supervised by two disciplines will be advised of the appropriate course title and code at the time of 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 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 Media (Honours)

1 General

There shall be a degree of Bachelor of Media (Honours). It is designed as a one year degree program to be undertaken following completion of the Bachelor of Media or an approved undergraduate degree.

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 are listed under 2.1 below:

- 2.1 Honours over two years is taken to mean two consecutive years. The grounds for granting permission to do Honours over two years are limited (see rule 2.1 of Bachelor of Arts Honours degree).

In all reasons it should be clear that the student is unable to (rather than chooses not to) complete the requirements on a full-time basis.

Application for permission to spread the work of Honours over two years should be made to the Faculty Registrar before 31 March (or 31 August for students commencing mid year) and will not normally be granted if the students has chosen to enrol in another course concurrently.

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 Media 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 or project and project exegesis 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 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 and to ensure that the student does not in effect spread the work of Honours over 2 years.

5 Qualification requirements

- 5.1 A student may proceed to the Honours degree, comprising coursework and a dissertation or project and project exegesis, 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 or project and project exegesis 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 proceed to the Honours degree in the following course or certain approved combinations of courses offered within the Faculty, provided that the student has obtained, before enrolment, the approval of the Head of the School/s concerned:

MDIA 4401A/B Honours Media.....24

Students who have been granted permission to study an honours program supervised by two disciplines will be advised of the appropriate course title and code at the time of 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 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.Media (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.

1 General

There shall be a degree of Bachelor of Social Sciences (Honours). It is designed as a one year degree program to be undertaken following completion of the Bachelor of Social Sciences or an approved undergraduate degree.

2 Duration of the award

2.1 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 are listed under 2.2 below.

2.2 Honours over two years is taken to mean two consecutive years. The grounds for granting permission to do Honours over two years are limited (see rule 2.2 of Bachelor of Arts Honours degree).

In all reasons it should be clear that the student is unable to (rather than chooses not to) complete the requirements on a full-time basis.

Application for permission to spread the work of Honours over two years should be made to the Faculty Registrar before 31 March (or 31 August for students commencing mid year) and will not normally be granted if the students has chosen to enrol in another course concurrently.

3 Admission

3.1 Students for the Honours degree shall not begin their Honours work until they have qualified for an Bachelor degree of 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 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 Social Sciences 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 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 and to ensure that the student does not in effect spread the work of Honours over 2 years.

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/s concerned before enrolment.
- 5.3 A student may proceed to the Honours degree in the following course or certain approved combinations of courses offered within the Faculty, provided that the student has obtained, before enrolment, the approval of the Head of the School/s concerned:

ANTH 4401 A/B Honours Anthropology.....	24
ASIA 4401 A/B Honours Asian Studies.....	24
GEST 4401A/B Honours Environmental Policy & Management	24
GWSI 4401A/B Honours Gender, Work and Social Inquiry	24
HIST 4401 A/B Honours History.....	24
INST 4402 A/B Honours International Studies....	24
PHIL 4401 A/B Honours Philosophy.....	24
POLI 4401 A/B Honours Politics.....	24

Students who have been granted permission to study an honours program supervised by two disciplines will be advised of the appropriate course title and code at the time of enrolment.

Students who complete the requirements of the double degree program of Social Sciences/Health Sciences at a sufficiently high level will be able to undertake an honours study worth 24 units comprising:

Honours Health Sciences coursework.....	6
Honours Social Sciences coursework.....	6
Thesis jointly supervised between Health Sciences and Social Sciences	12

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.

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.



Academic Program Rules

Law School

Contents

Bachelor of Laws LL.B.	244
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Undergraduate Awards

- 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

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 & Environmental) (B.E.(Civil & Env.))
 - Bachelor of Engineering (Civil & Structural) (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 Policy & management (B.Env.Pol.& Mgt.)
 - 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 Candidates wishing to interrupt their studies must do so in accordance with the procedures outlined in the University Leave of Absence Policy.

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 five 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, Conceded Pass. Courses for which a result of conceded pass has been obtained may not be presented towards the degree requirements for the Bachelor of Laws or the Honours Degree of Bachelor of Laws programs, nor to satisfy prerequisite requirements within any law course.
- 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:
- i Where a student has failed courses they will be advised to seek Course Advice to assist them in their future studies.
 - ii If a student has failed more than three quarters of their previous year studies they will be restricted to enrolling in no more than 12 units of study each semester for the following year.
 - iii 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.
 - iv Where a student has twice failed to pass any elective subject they will not be 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 candidates admitted to the program after 1 January 2007 shall comply with the relevant provisions of the Academic Program Rules set out in Clause 5.4. Candidates admitted to the program prior to 1 January 2007 shall comply with the relevant provisions of the Academic Program Rules operative at the time of their admission.
- 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.

- 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

Note: To students commencing this program in 2008

This program is currently under review, and there may be changes to the structure and the courses offered in this program from 2009. While the courses listed at Level I reflect the courses available in 2008, courses listed at higher Levels should be considered as indicative only.

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, 5.4.1.1(b)(ii.) below, or 12 units of non-law courses subject to the approval of the School / Faculty concerned.
- (b) the candidate has completed:
 - i all the following compulsory courses:

LAW 1001 Introduction to Australian Law	4
LAW 1002 Law of Torts 1	4
LAW 1003 Law of Contract 1	4
LAW 1004 Law of Crime	4
LAW 1005 Property Law	4
LAW 1007 Law of Torts 2	4
LAW 2001 Legal Research & Writing	2

LAW 2002 Administrative Laws.....	4	LAW 2060 Selected Issues in Law of Crime.....	4
LAW 2003 Australian Constitutional Law ...	4	LAW 2061 Public & Private Provision of Income Maintenance.....	4
LAW 2004 Corporate Law.....	4	LAW 2062 Succession	2
LAW 2005 Equity.....	4	LAW 2064 Jurisprudence.....	4
LAW 2117 Law of Contract 2.....	4	LAW 2070 Environmental Law.....	2
LAW 3001 Litigation Practice.....	2	LAW 2074 Property Theory.....	2
LAW 3002 Civil and Criminal Procedure....	4	LAW 2081 Research Project A.....	2
LAW 3003 Law of Evidence.....	4	LAW 2085 Human Rights: International and National Perspectives.....	4
LAW 3004 Legal Ethics	2	LAW 2092 Advanced Property Law	4
LAW 3007 Introduction to Advocacy.....	2	LAW 2096 Minerals and Energy Law.....	4
<i>and</i>		LAW 2097 Securities and Investment Law	4
ii elective courses with an aggregate units value of 24 units from the following (note 5.4.1.1(a)(iv) above):		LAW 2099 Law of the Person	4
LAW 1006 Introduction to Public International Law.....	4	LAW 2100 Commercial Equity.....	2
LAW 2006 Australian Legal History	4	LAW 2104 Conflict of Laws	4
LAW 2007 Workers Compensation Law.....	2	LAW 2107 Media Law 4.....	4
LAW 2009 Sentencing and Criminal Justice.....	4	LAW 2108 Media Law 2.....	2
LAW 2010 Research Project B.....	4	LAW 2122 Criminology	4
LAW 2011 Tax and the Revenue Concept Law	2	LAW 2132 Remedies.....	4
LAW 2013 Restitution	2	LAW 2135 Housing Law.....	2
LAW 2014 Selected Issues in International Law.....	2	LAW 2140 Expert Evidence.....	2
LAW 2015 Family Law.....	4	LAW 3005 Comparative Constitutional Law.....	4
LAW 2016 Transnational Crime.....	4	LAW 3010 Alternative Dispute Resolution	4
LAW 2017 Human Rights Internship Program.....	4	LAW 3011 Advanced Advocacy.....	4
LAW 2018 Revenue Law.....	4	LAW 3012 Advanced Public Law.....	4
LAW 2019 Remedies under the TPA.....	4	LAW 3013 Environmental Dispute Resolution.....	2
LAW 2020 Commercial Law and the Market.....	4	LAW 3014 Comparative Equality and Anti-Discrimination Law	2
LAW 2021 Medical Law and Ethics.....	4	LAW 3015 International Environmental Law.....	4
LAW 2022 Consumer Protection and Unfair Trading.....	2	LAW 3016 Comparative Law.....	4
LAW 2023 Roman Law.....	4	LAW 3017 Technology Law.....	4
LAW 2024 Moot A.....	2	LAW 3018 Comparative Native Title: Australia and Canada	2
LAW 2026 Aboriginal People and the Law.....	4	LAW 3020 Public Interest Litigation.....	4
LAW 2027 Adelaide Law Review A.....	2	LAW 3021 Capital Gains Tax and the Taxation of Entities.....	2
LAW 2028 Adelaide Law Review B.....	2	LAW 3022 Immigration & Refugee Law	2
LAW 2031 Financial Transactions	4	LAW 3023 Jessup Moot	4
LAW 2032 Australian Federal Criminal Law.....	4	LAW 3024 Comparative Equality and Anti-Discrimination Law	4
LAW 2036 Land Transactions	4	LAW 3025 Statutory Interpretation	4
LAW 2052 Moot B.....	4	LAW 3028 Regulation of Competition.....	4
LAW 2053 Feminist Legal Theory.....	2	LAW 3029 Corporate Finance.....	4
LAW 2059 Intellectual Property Law.....	4		

LAW 3030 Accreditation for Mediators	2
LAW 3044 Labour and Industrial Relations Law	4
LAW 3047 Environmental Protection Law	4
LAW 3065 Land and Water Resources Law	4
LAW 3066 Public International Law	4
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 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 candidate may be awarded the degree of Bachelor of Law with Honours.

A document setting out guidelines approved by the School providing the criteria by which the award of the Honours degree is determined in any given year is available from the School Office and is published in the Bachelor of Laws Handbook.

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:
- the aggregate units value of all courses completed is calculated
 - 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
 - the last course selected is given that units value which brings the total units value of courses selected to exactly 48 units
 - 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
 - to the average thus produced a bonus of .2 per course unit for a Distinction and .4 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
- granted status in a course (see relevant section on status under Student Related Polices In Student Guide 2003)
 - 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 3099 A/B Dissertation Honours Law, in the year after qualifying for the degree, must notify the Honours Convenor in writing of the intention to enrol in that course. The notice must be provided to the

Honours Convenor 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
 - 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, 5.4.1.1(b)(ii.) below, or 12 units of non-law courses subject to the approval of the School / Faculty concerned.

(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.

Graduate Attributes

Bachelor of Laws

Knowledge

- A Law graduate from 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
- The Law graduate will also have 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
- The Law graduate will have 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
- A Law graduate will have an awareness 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
- A Law graduate will have critical thinking and problem solving skills
- A Law graduate will have oral and written communication skills of a high order
- A Law graduate will have skills to work both independently and cooperatively in a professional environment
- A Law graduate will have the capacity to learn and maintain intellectual curiosity, and to engage in life long personal and professional learning
- A Law graduate will be familiar with and proficient in legal research techniques, including in the appropriate use of modern research technologies
- A Law graduate will have a capacity to work in a professional and ethical relationship with both clients and colleagues
- A Law graduate will have 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 and an understanding of social justice through the operation of law
- A Law graduate will have a commitment to the highest standards of ethical and professional behaviour
- A Law graduate will have an understanding of social and cultural diversity, and sensitivity of the operation of the law and legal structures in that context.



Academic Program Rules

Elder Conservatorium of Music

Contents

Certificate III in Music Cert.III Mus.	252
Certificate IV in Music (Classical) Cert.IV Mus.(Class.)	252
Certificate IV in Music (Jazz) Cert.IV Mus.(Jazz.)	252
Certificate IV in Music (Technology) Cert.IV Mus.(Technology).....	252
Diploma in Instrumental Music Dip.Inst.Mus.	259
Diploma in Music (Classical) Dip.Mus.(Class.).....	252
Diploma in Music (Jazz) Dip.Mus.(Jazz).....	252
Diploma in Music (Sound Engineering) Dip.Mus.(Sound Eng.)	252
Bachelor of Music B.Mus.	261
Bachelor of Music Education B.Mus.Ed.	261
Bachelor of Music Studies B.Mus.St.....	261
Bachelor of Music (Honours) B.Mus.(Hons.).....	261
Bachelor of Music Education (Honours) B.Mus.Ed.(Hons.).....	261
Bachelor of Music Studies (Honours) B.Mus.St.(Hons.).....	261
Appendix A: Single Study Courses in the Elder Conservatorium of Music	272

Undergraduate Awards

- Certificate III in Music
- Certificate IV in Music (Classical)
- Certificate IV in Music (Jazz)
- Certificate IV in Music (Technology)
- Diploma in Instrumental Music
- Diploma in Music (Classical)
- Diploma in Music (Jazz)
- Diploma in Music (Sound Engineering)
- Degree of Bachelor of Music
- Degree of Bachelor of Music Education
- Degree of Bachelor of Music Studies



Diploma in Music (Classical)
Diploma in Music (Jazz)
Diploma in Music (Sound Engineering)
Certificate IV in Music (Classical)
Certificate IV in Music (Jazz)
Certificate IV in Music (Technology)
Certificate III in Music

1 General

- 1.1 There shall be a:
- Diploma in Music (Classical)
 - Diploma in Music (Jazz)
 - Diploma in Music (Sound Engineering)
 - 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 (Classical) shall extend over one academic year of full-time study or equivalent.
- 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 Diploma in Music (Sound Engineering) 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 Executive Officer for permission and obtain

beforehand the approval of the Director 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 Director of the School deems appropriate.

3 Admission

3.1 Diploma in Music (Classical)

Admission to the program of study for the Diploma 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.

3.2 Diploma in Music (Jazz)

Admission to the program of study for the 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.

3.3 Diploma in Music (Sound Engineering)

Admission to the program of study for the Diploma in Music (Sound Engineering) 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 equivalent.

A candidate will not be permitted to defer an offer of admission to the program.

3.4 Certificate IV in Music (Classical)

Admission to the program of study for the 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.

3.5 Certificate IV in Music (Jazz)

Admission to the program of study for the 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.

3.6 Certificate IV in Music (Technology)

Admission to the program of study for the 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 equivalent.

A candidate will not be permitted to defer an offer of admission to the program.

3.7 Certificate III in Music

Admission to the program of study for the 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 Director of the School, or the nominee of the Director, 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 four classifications of pass in the final assessment of any course for the Certificate

and Diploma awards as follows: Pass with High Distinction, Pass with Distinction, Pass with Credit, and Pass.

There shall also be a classification of Conceded Pass. A candidate may present for the certificate and diploma awards only a limited number of courses for which a conceded pass has been obtained, as specified in the relevant Rules under these Academic Program Rules.

A particular competency shall be deemed to have been achieved when all relevant sections of courses mapped against it have been completed.

In the case of the Diplomas, conceded passes will be accepted for:

VETMUS 1502 Occupational Health & Safety 1

VETMUS 1505 Copyright Law..... 1

In the case of the Certificates, conceded passes will be accepted for:

VETMUS 1501 Music Industry & Business Management..... 1

VETMUS 1502 Occupational Health & Safety 1

5.6 A candidate who fails a course, or who obtains a conceded 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 (Classical)

6.1.1 The program for the Diploma in Music (Classical) may be taken with a major study in Classical 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 (Classical)

Candidates shall satisfactorily complete the following:

VETMUS 1502 Occupational Health & Safety 1

VETMUS 1504 A/B Career Management Part 1 & 2..... 2

VETMUS 1505 Copyright Law 1

VETMUS 1614 A/B Aural Development (Diploma) Part 1 & 2..... 2

VETMUS 1755 Sound Production A..... 2

VETMUS 1756 Sound Production B..... 2

VETMUS1850 A/B Individual Tuition (Classical Diploma) Part 1 & 2..... 4

VETMUS 1851 A/B Ensemble (Classical Diploma) Part 1 & 2..... 3

VETMUS 1852 A/B Classical Diploma Forum Part 1 & 2..... 1

VETMUS 1853 A/B Music Language Studies Part 1 & 2..... 4

and

VETMUS 1855 A/B Keyboard Musicianship (Classical Diploma) Minor Part 1 & 2..... 2

or

VETMUS 1854 A/B Keyboard Musicianship (Classical Diploma) Major Part 1 & 2 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 Conservatorium 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 Diploma in Music (Classical)
To qualify for the award of the Diploma in Music (Classical) a candidate granted status (see relevant section under Student Related Policies in the 2007 Student Guide) except in special cases approved by the School, must 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: Diploma in Music (Jazz)

6.2.1 The program for the Diploma in Music (Jazz) may be taken with a major study in Jazz Performance.

6.2.2 To qualify for the Diploma 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.

6.2.2.1 Diploma in Music (Jazz)

Candidates shall satisfactorily complete the following:

VETMUS 1502 Occupational Health & Safety.....	1
VETMUS 1504 A/B Career Management Part 1 & 2.....	2
VETMUS 1505 Copyright Law.....	1
VETMUS 1614 A/B Aural Development (Diploma) Part 1 & 2.....	2
VETMUS 1750 A/B Individual Tuition (Jazz Diploma) Part 1 & 2.....	4
VETMUS 1751 A/B Small Ensemble (Jazz Diploma) Part 1 & 2.....	3
VETMUS 1752 A/B Jazz Diploma Workshop Part 1 & 2.....	4
VETMUS 1753 A/B Jazz Diploma Forum Part 1 & 2.....	1
VETMUS 1754 A/B Jazz Accompaniment Part 1 & 2.....	2
VETMUS 1755 Sound Production A.....	2
VETMUS 1756 Sound Production B.....	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 Conservatorium 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 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 Policies in the 2007 Student Guide) except in special cases approved by the School, must 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: Diploma in Music (Sound Engineering)

- 6.3.1 The program for the Diploma in Music (Sound Engineering) may be taken with a major study in Sound Engineering.
- 6.3.2 To qualify for the Diploma a candidate shall satisfactorily complete the requirements for courses listed 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.

6.3.2.1 Diploma in Music (Sound Engineering)

Candidates shall satisfactorily complete the following courses:

VETMUS 1502 Occupational Health & Safety.....	1
VETMUS 1504A/B Career Management Part 1 & 2.....	2
VETMUS 1505 Copyright Law.....	1
VETMUS 1951 A/B Concepts of Music (Diploma) Part 1 & 2.....	3
VETMUS 1952 A/B Sound Engineering (Studio) Part 1 & 2.....	4
VETMUS 1956 Sound Engineering (Live).....	2
VETMUS1953 A/B Audio Studies (Diploma) Part 1 & 2.....	4
VETMUS 1954 A/B MIDI Studies (Diploma) Part 1 & 2.....	4
VETMUS 1955 A/B Music Technology Forum.....	3

- 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 Conservatorium 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 Diploma in Music (Sound Engineering)
To qualify for the award of the Diploma in Music (Sound Engineering) a candidate granted status (see relevant section under Student Related Policies in the 2007 Student Guide) except in special cases approved by the School, shall 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 20 then the course might not be offered

6.4 Academic program: Certificate IV in Music (Classical)

- 6.4.1 The program for the Certificate IV in Music (Classical) may be taken with a major study in Classical Performance on an instrument or voice.
- 6.4.2 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 24 units must be presented. No student shall gain credit for a course more than once.

6.4.2.1 Classical Performance

Candidates shall satisfactorily complete the following:

VETMUS 1501 Music Industry & Business Management	1
VETMUS 1502 Occupational Health & Safety	1
VETMUS 1503 Assignment Writing & Research Skills.....	1
VETMUS 1602 A/B Aural Development (VET) Part 1 & 2.....	2
VETMUS 1605 A/B Ensemble (Cert IV) Part 1 & 2.....	2
VETMUS 1607 A/B History of 20th Century Music Part 1 & 2	2
VETMUS 1608 A/B Theory of Music Part 1 & 2	2
VETMUS 1609 A/B Individual Tuition (Cert IV) Part 1 & 2.....	4
VETMUS 1801 A/B Composition Class Part 1 & 2.....	2
VETMUS 1804 A/B Performance Class Part 1 & 2.....	2
VETMUS 1807 A/B Technique & Repertoire Class Part 1 & 2.....	3
<i>and</i>	
VETMUS 1802 A/B Keyboard Musicianship (Majors) Part 1 & 2	2
<i>or</i>	
VETMUS 1808 A/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 Conservatorium 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
- To qualify for the award of the Certificate IV in Music (Classical) a candidate granted status (see relevant section under Student Related Policies in the 2007 Student Guide) must, except in special cases approved by the School, must 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 IV in Music (Jazz)

- 6.5.1 The program for the Certificate IV in Music (Jazz) may be taken with a major study in Jazz Performance.
- 6.5.2 To qualify for the Certificate a candidate shall satisfactorily complete the requirements for courses listed below in 6.5.2.1. Courses to a total value of 24 units must be presented. No student shall gain credit for a course more than once.

6.5.2.1 Certificate IV in Music (Jazz)

Candidates shall satisfactorily complete the following:

VETMUS 1501 Music Industry & Business Management	1
VETMUS 1502 Occupational Health & Safety	1
VETMUS 1503 Assignment Writing & Research Skills.....	1
VETMUS 1602 A/B Aural Development (VET) Part 1 & 2.....	2
VETMUS 1701 A/B Jazz Styles I Part 1 & 2	3
VETMUS 1702 A/B Jazz Theory I Part 1 & 2.....	2
VETMUS 1703 A/B Jazz Piano Class Part 1 & 2	2
VETMUS 1704 A/B Jazz Performance I: VET Part 1 & 2	4
VETMUS 1705 A/B Improvisation I Part 1 & 2.....	3
VETMUS 1707 A/B Small Ensemble Part 1 & 2.....	2
VETMUS 1708 A/B Jazz Masterclass Part 1 & 2 ...	2
VETMUS 1709 A/B Jazz Forum Part 1 & 2.....	1

- 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 Conservatorium 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 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 the 2007 Student Guide) except in special cases approved by the School, must 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.

6.6 Academic program: Certificate IV in Music (Technology)

6.6.1 The program for the Certificate IV in Music (Technology) may be taken with a Practical Study in Music Technology.

6.6.2 To qualify for the Certificate a candidate shall satisfactorily complete the requirements for courses listed below in 6.6.2.1. Courses to a total value of 24 units must be presented. No student shall gain credit for a course more than once.

6.6.2.1 Music Technology

Candidates shall satisfactorily complete the following:

VETMUS 1501 Music Industry & Business Management	1
VETMUS 1502 Occupational Health & Safety	1
VETMUS 1503 Assignment Writing & Research Skills.....	1
VETMUS 1615 A/B Concepts of Music (Cert IV) Part 1 & 2.....	6
VETMUS 1801 A/B Composition Class Part 1 & 2	2
VETMUS 1911 A/B Audio Studies (Cert IV) Part 1 & 2	4
VETMUS 1912 A/B Midi Studies (Cert IV) Part 1 & 2.....	4
VETMUS 1913 A/B Music Technology Forum (Cert IV) Part 1 & 2.....	3
<i>and</i>	
VETMUS 1802 A/B Keyboard Musicianship (Majors) Part 1 & 2	2
<i>or</i>	
VETMUS 1808 A/B Keyboard Musicianship (Minors) Part 1 & 2	2

6.6.3 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 Conservatorium of Music Office.

6.6.4 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 the 2007 Student Guide) must, except in special cases approved by the School, must 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.

6.7 Academic program: Certificate III in Music

6.7.1 The program for the Certificate III in Music may be taken with a major study in performance or composition.

6.7.2 To qualify for the Certificate a candidate shall satisfactorily complete the requirements for courses listed below in 6.7.2.1. Courses to a total value of 14 units must be presented. No student shall gain credit for a course more than once.

6.7.2.1 Certificate III in Music

Candidates shall satisfactorily complete the following:

VETMUS 1501 Music Industry & Business Management	1
VETMUS 1502 Occupational Health & Safety	1
VETMUS 1503 Assignment Writing & Research Skills.....	1
VETMUS 1601 A/B History & Literature Part 1 & 2.....	2
VETMUS 1610 A/B Individual Tuition (Cert III) Part 1 & 2.....	3
VETMUS 1611 A/B Aural Development (Cert III) Part 1 & 2.....	2

VETMUS 1612 A/B Ensemble (Cert III) Part 1 & 2.....	2
VETMUS 1613 A/B Theory of Music (Cert III) Part 1 & 2.....	2

- 6.7.3 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 Conservatorium of Music Office.
- 6.7.4 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 (see relevant section under Student Related Policies in the 2007 Student Guide) must, except in special cases approved by the School, must 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.



Diploma in Instrumental Music

1 General

There shall be a Diploma in Instrumental Music.

2 Duration of program

2.1 The duration of the Diploma itself shall be a minimum of two years of study, but shall be taken concurrently with full- or part-time study in another undergraduate award.

2.2 The program must be undertaken in no more than three consecutive years of study. A student who leaves the program shall be deemed to have discontinued his or her candidature for the award and may not reenrol.

3 Admission

3.1 Admission to the program of study for the Diploma in Instrumental 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 or the equivalent.

A candidate will not be permitted to defer an offer of admission to the program.

3.2 A student of the Diploma in Instrumental Music must be enrolled concurrently in a degree of Bachelor of the University.

4 Enrolment

4.1 Candidates must obtain approval of the Director of the Conservatorium, or nominee for the proposed program of study and also obtain advice from the Faculty that administers their Bachelor degree on an appropriate program 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 Except where otherwise determined by the School, a candidate who is eligible in any year to enrol in Performance 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.

4.4 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 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.

5.6 A candidate who fails a course, 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 To qualify for the Diploma in Instrumental Music a candidate shall complete a performance sequence (as defined in rule 6.3), and satisfy the requirements of an undergraduate degree of the university.

6.2 A candidate may not have the Diploma in Instrumental Music conferred until he or she has satisfied the requirements for the approved undergraduate program

6.3 Academic program

- 6.3.1 All candidates shall complete a performance sequence to a total value of 24 units. The sequence shall consist of either:
- PERF 1500A/B Classical Performance I Part 1 & 2.....9
 - and one large ensemble or elective chosen from clause 6.1.2.3 of the degree of Bachelor of Music.....3
 - PERF 2500A/B Classical Performance II Part 1 & 2.....9
 - and one large ensemble or elective chosen from clause 6.1.2.3 of the degree of Bachelor of Music.....3
- or*
- JAZZ 1000A/B Jazz Performance I Part 1 & 2.....9
 - and one large ensemble or elective chosen from clause 6.1.2.3 of the degree of Bachelor of Music.....3
- and*
- JAZZ 2000A/B Jazz Performance II Part 1 & 2.....9
 - and one large ensemble or elective chosen from clause 6.1.2.3 of the degree of Bachelor of Music.....3

6.4 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.

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 Music

Bachelor of Music Education

Bachelor of Music Studies

Bachelor of Music (Honours)

Bachelor of Music Education (Honours)

Bachelor of Music Studies (Honours)

1 General

1.1 There shall be:

A degree and an Honours degree of:
Bachelor of Music
Bachelor of Music Education
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 Executive Officer for permission and obtain beforehand the approval of the Director 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 Director 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 musical performance and academic merit. 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 Director, 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 Director 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 Bachelor degrees, as follows: Pass with High Distinction, Pass with Distinction, Pass with Credit, and Pass. There shall also be a classification of Conceded Pass.

A candidate may present for the Bachelor degrees only a limited number of courses for which a conceded pass has been obtained, as specified in the relevant Rules under these Academic Program Rules.

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 conceded 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.
- Subject to Clause 6.1.2, conceded passes may be presented for elective courses only, from Clause 6.1.2.3, provided that they do not exceed 6 units in total.

6.1.2.1 Classical Performance

Candidates shall satisfactorily complete the following courses:

Level I

MUSCORE 1007 Introduction to Theory & Analysis of Music I	3
MUSCORE 1008 Contrapuntal Analysis & Composition I	3
MUSCORE 1009 Foundations of Music History IA	3
MUSCORE 1010 Foundations of Music History IB	3

and

PERF 1500 A/B Classical Performance I Part 1 & 2	9
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and an Ensemble from one of the following unless specified otherwise in the Specialist Requirements:

ENS 1002 A/B Jazz Choir: Level I Part 1 & 2	3
ENS 1009 A/B Elder Conservatorium Symphony Orchestra I Part 1 & 2	3
ENS 1010 A/B Elder Conservatorium Wind Orchestra I Part 1 & 2	3
ENS 1025 A/B Elder Conservatorium Chorale I Part 1 & 2	3
ENS 1026 A/B Adelaide Voices I Part 1 & 2	3
ENS 1027 A/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 1009 A/B Elder Conservatorium Symphony Orchestra I Part 1 & 2	3
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or

ENS 1010 A/B Elder Conservatorium Wind Orchestra I Part 1 & 2	3
---	---

Keyboard

PERF 1002 A/B Keyboard Musicianship I Part 1 & 2	3
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Percussion

ENS 1017 A/B Percussion Ensemble I Part 1 & 2	3
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Strings

ENS 1009 A/B Elder Conservatorium Symphony Orchestra I Part 1 & 2	3
---	---

Voice

One of:

ENS 1025 A/B Elder Conservatorium Chorale I Part 1 & 2	3
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ENS 1026 A/B Adelaide Voices I Part 1 & 2	3
---	---

ENS 1027 A/B Bella Voce I Part 1 & 2	3
--	---

Woodwind

ENS 1009 A/B Elder Conservatorium Symphony Orchestra I Part 1 & 2	3
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or

ENS 1010 A/B Elder Conservatorium Wind Orchestra I Part 1 & 2	3
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Level II

MUSCORE 2005 Western Music in Theory & Practice IIA: 1750-1850	3
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MUSCORE 2006 Western Music in Theory & Practice IIB: 1850-1950	3
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and

PERF 2500 A/B Classical Performance II Part 1 & 2	9
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and an Ensemble from one of the following:

ENS 2002 A/B Jazz Choir: Level II Part 1 & 2	3
--	---

ENS 2009 A/B Elder Conservatorium Symphony Orchestra II Part 1 & 2	3
--	---

ENS 2010 A/B Elder Conservatorium Wind Orchestra II Part 1 & 2	3
--	---

ENS 2025 A/B Elder Conservatorium Chorale II Part 1 & 2	3
---	---

ENS 2026 A/B Adelaide Voices II Part 1 & 2	3
--	---

ENS 2027 A/B Bella Voce II Part 1 & 2	3
---	---

and specialist requirements as listed below:

Brass

ENS 2009 A/B Elder Conservatorium Symphony
Orchestra II Part 1 & 2.....3

or

ENS 2010 A/B Elder Conservatorium Wind
Orchestra II Part 1 & 2.....3

Keyboard

PERF 2001 A/B Accompanying II Part 1 & 2.....3

Percussion

ENS 2017 A/B Percussion Ensemble II
Part 1 & 2.....3

and

ENS 2009 A/B Elder Conservatorium Symphony
Orchestra II Part 1 & 2.....3

or

ENS 2010 A/B Elder Conservatorium Wind
Orchestra II Part 1 & 2.....3

Strings

ENS 2009 A/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 2003 A/B Stagecraft II Part 1 & 2.....3

PERF 2004 A/B Voice Practicum II Part 1 & 2.....3

ENS 2025 A/B Elder Conservatorium Chorale II
Part 1 & 2.....3

Woodwind

ENS 2009 A/B Elder Conservatorium Symphony
Orchestra II Part 1 & 2.....3

or

ENS 2010 A/B Elder Conservatorium Wind
Orchestra 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 3005 Western Music in Theory
& Practice: Music Since 1950.....3

and

PERF 3500 A/B Classical Performance III
Part 1 & 2.....9

and an Ensemble from one of the following
unless specified otherwise in the Specialist
Requirements:

ENS 3002 A/B Jazz Choir: Level III Part 1 & 2.....3

ENS 3009 A/B Elder Conservatorium Symphony
Orchestra III Part 1 & 2.....3

ENS 3010 A/B Elder Conservatorium Wind
Orchestra III Part 1 & 2.....3

ENS 3025 A/B Elder Conservatorium Chorale III
Part 1 & 2.....3

ENS 3026 A/B Adelaide Voices III Part 1 & 2.....3

ENS 3027 A/B Bella Voce III Part 1 & 2.....3

and specialist requirements as specified:

Brass

ENS 3009 A/B Elder Conservatorium Symphony
Orchestra III Part 1 & 2.....3

or

ENS 3010 A/B Elder Conservatorium Wind
Orchestra 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

and

another 3-unit course from clause 6.1.2.3.....3

Percussion:

ENS 3017 A/B Percussion Ensemble III
Part 1 & 2.....3

and

ENS 3009 A/B Elder Conservatorium Symphony
Orchestra III Part 1 & 2.....3

or

ENS 3010 A/B Elder Conservatorium Wind
Orchestra III Part 1 & 2.....3

Strings

ENS 3009 A/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

and

another 3-unit course from clause 6.1.2.3.....3

Voice

ENS 3025 A/B Elder Conservatorium Chorale III
Part 1 & 2.....3

PERF 3003 A/B Stagecraft III Part 1 & 2.....3

PERF 3004 A/B Voice Practicum III Part 1 & 2.....3

Woodwind

ENS 3009 A/B Elder Conservatorium Symphony
Orchestra III Part 1 & 2.....3

or

ENS 3010 A/B Elder Conservatorium Wind
Orchestra III Part 1 & 2.....3

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 1000 A/B Jazz Performance I Part 1 & 2.....	9
JAZZ 1003 A/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 1002 A/B Jazz Choir: Level I Part 1 & 2.....	3
ENS 1004 A/B Jazz Big Band: Level I Part 1 & 2.....	3
ENS 1011 A/B Jazz Guitar Band: Level I Part 1 & 2.....	3
and a 3-unit Elective from clause 6.1.2.3.....	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 II

JAZZ 2000 A/B Jazz Performance II Part 1 & 2.....	9
JAZZ 2006 A/B Jazz Improvisation II Part 1 & 2.....	3
JAZZ 2007 A/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 2002 A/B Jazz Choir: Level II Part 1 & 2.....	3
ENS 2004 A/B Jazz Big Band: Level II Part 1 & 2.....	3
ENS 2011 A/B Jazz Guitar Band: Level 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 3000 A/B Jazz Performance III Part 1 & 2.....	9
JAZZ 3005 A/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 3002 A/B Jazz Choir: Level III Part 1 & 2.....	3
ENS 3004 A/B Jazz Big Band: Level III Part 1 & 2.....	3
ENS 3011 A/B Jazz Guitar Band: Level 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 1002 A/B Jazz Choir: Level I Part 1 & 2.....	3
ENS 1004 A/B Jazz Big Band: Level I Part 1 & 2.....	3
ENS 1009 A/B Elder Conservatorium Symphony Orchestra I Part 1 & 2.....	3
ENS 1010 A/B Elder Conservatorium Wind Orchestra I Part 1 & 2.....	3
ENS 1011 A/B Jazz Guitar Band: Level I Part 1 & 2.....	3
ENS 1023 A/B Chamber Orchestra I Part 1 & 2.....	3
ENS 1025 A/B Elder Conservatorium Chorale I Part 1 & 2.....	3
ENS 1026 A/B Adelaide Voices I Part 1 & 2.....	3
ENS 1027 A/B Bella Voce I Part 1 & 2.....	3
ENS 1030 Chamber Music IA.....	1.5
ENS 1031 Chamber Music IB.....	1.5
ENS 2002 A/B Jazz Choir: Level II Part 1 & 2.....	3
ENS 2004 A/B Jazz Big Band: Level II Part 1 & 2.....	3
ENS 2009 A/B Elder Conservatorium Symphony Orchestra II Part 1 & 2.....	3
ENS 2010 A/B Elder Conservatorium Wind Orchestra II Part 1 & 2.....	3
ENS 2011 A/B Jazz Guitar Band: Level II Part 1 & 2.....	3
ENS 2023 A/B Chamber Orchestra II Part 1 & 2.....	3
ENS 2025 A/B Elder Conservatorium Chorale II Part 1 & 2.....	3
ENS 2026 A/B Adelaide Voices II Part 1 & 2.....	3
ENS 2027 A/B Bella Voce II Part 1 & 2.....	3
ENS 2030 Chamber Music IIA.....	1.5
ENS 2031 Chamber Music IIB.....	1.5
ENS 3002 A/B Jazz Choir: Level III Part 1 & 2.....	3
ENS 3004 A/B Jazz Big Band: Level III Part 1 & 2.....	3
ENS 3009 A/B Elder Conservatorium Symphony Orchestra III Part 1 & 2.....	3
ENS 3010 A/B Elder Conservatorium Wind Orchestra III Part 1 & 2.....	3
ENS 3011 A/B Jazz Guitar Band: Level III Part 1 & 2.....	3
ENS 3023 A/B Chamber Orchestra III Part 1 & 2.....	3
ENS 3025 A/B Elder Conservatorium Chorale III Part 1 & 2.....	3
ENS 3026 A/B Adelaide Voices III Part 1 & 2.....	3
ENS 3027 A/B Bella Voce III Part 1 & 2.....	3
ENS 3030 Chamber Music IIIA.....	1.5
ENS 3031 Chamber Music IIIB.....	1.5
GENMUS 1001 From Elvis to U2 I.....	3
GENMUS 1003 Musics of the World I.....	3

GENMUS 1014 Sound & Media Technology	3
GENMUS 1020 Choral Masterworks I.....	3
GENMUS 1026 A/B Perspectives in Music Technology I Part 1 & 2.....	3
GENMUS 2006 Orchestration II.....	3
GENMUS 2010 A/B Studies in Composition II Part 1 & 2.....	3
GENMUS 2020 Choral Masterworks II.....	3
GENMUS 2026 A/B Perspectives in Music Technology II Part 1 & 2.....	3
GENMUS 3011 Village Voices: Greenwich Village in the 1960s III.....	3
GENMUS 3013 Music & Ideology	3
GENMUS 3020 Choral Masterworks III.....	3
GENMUS 3026 A/B Perspectives in Music Technology III Part 1 & 2.....	3
MUSCORE 1005 Music Foundations I: Jazz.....	3
MUSCORE 1006 Music in Context I: Jazz.....	3
MUSCORE 1007 Introduction to Theory & Analysis of Music I.....	3
MUSCORE 1008 Contrapuntal Analysis & Composition I.....	3
MUSCORE 1009 Foundations of Music History IA.....	3
MUSCORE 1010 Foundations of Music History IB.....	3
MUSCORE 2003 Music in Context IIA: Jazz.....	3
MUSCORE 2004 Music in Context IIB: Jazz.....	3
MUSCORE 2005 Western Music in Theory & Practice IIA: 1750-1850.....	3
MUSCORE 2006 Western Music in Theory & Practice IIB: 1850-1950.....	3
MUSCORE 3002 Music in Context IIIA: Jazz.....	3
MUSCORE 3003 Music in Context IIIB: Jazz.....	3
MUSCORE 3005 Western Music in Theory & Practice: Music Since 1950.....	3
MUSST 1010 A/B Studies in Composition I Part 1 & 2.....	3
MUSST 2001 Approaches to Music IIA.....	3
MUSST 2002 Approaches to Music IIB.....	3
MUSST 2003 Instrumental Music Pedagogy II.....	3
MUSST 3001 Approaches to Music III.....	3
MUSST 3002 Advanced Music Seminar IIIB.....	3
MUSST 3003 Aboriginal Music in Australia II/III.....	3
MUSST 3004 Instrumental Music Pedagogy III.....	3
MUSST 3005 Foundation for Honours III: Music Studies.....	3
MUSST 3010 A/B Studies in Composition III Part 1 & 2.....	3
MUSST 3012 The String Quartets of Bartok III.....	3
MUSST 3014 Rhythm in the 20th Century III.....	3

PERF 1002 A/B Keyboard Musicianship I Part 1 & 2.....	3
PERF 2003 A/B Stagecraft II.....	3
PERF 2023 Conducting IIA.....	1.5
PERF 2024 Conducting IIB.....	1.5
PERF 3023 Conducting IIIA.....	1.5
PERF 3024 Conducting IIIB.....	1.5

- 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 Conservatorium 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 Policies in the 2007 Student Guide) 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 Executive Officer. Applications to change specialisation are subject to the approval of the Director or nominee of the Director.

**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. Studies for Level IV may not be commenced until all of the requirements for Levels I-III have been completed. At least 18 units shall comprise Level IV courses. No student shall gain credit for a course more than once.

Subject to Clause 6.2.2, conceded passes may be presented for elective courses only from Clause 6.1.2.3, provided that they do not exceed 6 units in total..

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 IIA3
MUSED 2002 Music Education IIB3
MUSED 2003 A/B Music Education Ensembles II Part 1 & 2.....3
and either
MUSCORE 2005 Western Music in Theory & Practice IIA: 1750-18503
MUSCORE 2006 Western Music in Theory & Practice IIB: 1850-19503
or
MUSCORE 2003 Music in Context IIA: Jazz.....3
MUSCORE 2004 Music in Context IIB: Jazz.....3
and
COMP 2500 A/B Composition II Part 1 & 26
or
MUSTECH 2003 A/B Music Technology II Part 1 & 2..... 6
and
GENMUS 2026 A/B Perspectives in Music Technology II Part 1 & 23
or
PERF 2600 A/B Practical Study II: Performance Part 1 & 2..... 6
or
JAZZ 2600 A/B Practical Study II: Jazz Part 1 & 26
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 3003 A/B Music Education Ensembles III Part 1 & 2.....3
MUSED 3004 Music Education Practicum III.....3
and either
MUSCORE 3002 Music in Context IIIA: Jazz.....3
or
MUSCORE 3003 Music in Context IIIB: Jazz.....3
or
MUSCORE 3005 Western Music in Theory & Practice: Music Since 1950.....3
and
COMP 3500 A/B Composition III Part 1 & 26
or
MUSTECH 3003 A/B Music Technology III Part 1 & 2..... 6
and
GENMUS 3026 A/B Perspectives in Music Technology III Part 1 & 23

or

PERF 3600 A/B Practical Study III:
Performance Part 1 & 2..... 6

or

JAZZ 3600 A/B Practical Study III:
Jazz Part 1 & 2..... 6

or

Elective courses from other schools to the
value of 6 units 6

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 Student-Teacher Interaction
in the Classroom Pt 1(UG)..... 2

EDUC 4702 Teaching Practice I (UG)..... 3

EDUC 4703 Teaching Practice II (UG)..... 3

EDUC 4704 Professional Practice & ICT
for Teachers (UG)..... 2

EDUC 4705 Curriculum & Assessment
of Learning (UG)..... 2

EDUC 4706 Student-Teacher Interaction
in the Classroom Pt 2 (UG)..... 2

EDUC 4707 Culture, Education & Society (UG)..... 2

MUSED 4001 A/B Music Education IV Part 1 & 2 .. 3
and an elective selected from clause 6.1.2.3 or
MUSED 4002 A/B Music Education Project IV
Part 1 & 2..... 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 Conservatorium 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 Policies in the 2007 Student Guide)
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 Executive
Officer. Applications to change specialisation are subject to
the approval of the Director or nominee of the Director.

5 Music Education Students in a Jazz Major

Students who change specialisation to a Jazz major who do
not have the necessary prerequisites to take Music in
Context IIIA Jazz and Music in Context IIIB Jazz may
substitute MUSCORE 3999A/B Jazz Theory for Music
Education III Part 1 & 2 worth 3 units.

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 specialisation in Integrated Studies 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.
- Subject to Clause 6.3.2, conceded passes may be presented for elective courses only from Clause 6.1.2.3, provided that they do not exceed 6 units in total.

6.3.2.1 Composition

Candidates shall satisfactorily complete the following courses:

Level I

COMP 1500 A/B Composition I Part 1 & 2	6
GENMUS 1003 Musics of the World I	3
MUSCORE 1007 Introduction to Theory & Analysis of Music I	3
MUSCORE 1008 Contrapuntal Analysis & Composition I	3
MUSCORE 1009 Foundations of Music History IA	3
MUSCORE 1010 Foundations of Music History IB	3
and Electives selected from clause 6.1.2.3 to complete a full load of 24 units.	

Level II

COMP 2500 A/B Composition II Part 1 & 2	6
MUSCORE 2005 Western Music in Theory & Practice IIA: 1750-1850	3
MUSCORE 2006 Western Music in Theory & Practice IIB: 1850-1950	3
MUSST 2001 Approaches to Music IIA	3
MUSST 2002 Approaches to Music IIB	3
and Electives selected from clause 6.1.2.3 to complete a full load of 24 units.	

Level III

COMP 3500 A/B Composition III Part 1 & 2	6
MUSCORE 3005 Western Music in Theory & Practice: Music Since 1950	3
MUSST 3001 Approaches to Music III	3
and Electives selected from clause 6.1.2.3 to complete a full load of 24 units.	

6.3.2.2 Integrated Studies

Level I

MUSCORE 1007 Introduction to Theory & Analysis of Music I	3
MUSCORE 1008 Contrapuntal Analysis & Composition I	3
MUSCORE 1009 Foundations of Music History IA	3
MUSCORE 1010 Foundations of Music History IB	3
MUSST 1001A/B Studies in Music I Part 1 & 2	6
PERF 1600 A/B Practical Study I: Performance Part 1 & 2	6

Level II

MUSCORE 2005 Western Music in Theory & Practice IIA: 1750-1850	3
MUSCORE 2006 Western Music in Theory & Practice IIB: 1850-1950	3
MUSST 2001 Approaches to Music IIA	3
MUSST 2002 Approaches to Music IIB	3
PERF 2600 A/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 3005 Western Music in Theory & Practice: Music Since 1950	3
MUSST 3001 Approaches to Music III	3
PERF 3600 A/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 Music Technology

Candidates shall satisfactorily complete the following courses:

Level I

GENMUS 1026 A/B Perspectives in Music Technology I Part 1 & 2	3
MUSCORE 1007 Introduction to Theory & Analysis of Music I	3
MUSCORE 1008 Contrapuntal Analysis & Composition I	3
MUSCORE 1009 Foundations of Music History IA	3
MUSCORE 1010 Foundations of Music History IB	3
MUSTECH 1003 A/B Music Technology I Part 1 & 2	6
and Electives selected from clause 6.1.2.3 to complete a full load of 24 units.	

Level II

GENMUS 2026 A/B Perspectives in Music Technology II Part 1 & 2	3
MUSCORE 2005 Western Music in Theory & Practice IIA: 1750-1850	3
MUSCORE 2006 Western Music in Theory & Practice IIB: 1850-1950	3
MUSST 2001 Approaches to Music IIA	3
MUSST 2002 Approaches to Music IIB	3
MUSTECH 2003 A/B Music Technology II Part 1 & 2.....	6
and Electives selected from clause 6.1.2.3 to complete a full load of 24 units.	

Level III

GENMUS 3026 A/B Perspectives in Music Technology III Part 1 & 2	3
MUSCORE 3005 Western Music in Theory & Practice: Music Since 1950.....	3
MUSST 3001 Approaches to Music III.....	3
MUSTECH 3003 A/B Music Technology III Part 1 & 2.....	6
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 Conservatorium 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 Policies in the 2007 Student Guide) 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 Executive Officer. Applications to change specialisation are subject to the approval of the Director or nominee of the Director.

6.4 Academic program: 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 4005 A/B Honours Performance Part 1 & 2 or PERF 4006 A/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 Conservatorium 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 4006 A/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 Conservatorium 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 4003 A/B Honours Ethnomusicology (B.Mus.) Part 1 & 2
 MUSCOMP 4010 A/B Honours Composition Part 1 & 2
 MUSICOL 4011 A/B Honours Musicology (B.Mus.) Part 1 & 2
 MUSTECH 4001 A/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 Conservatorium 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 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.



Appendix A: Single Study Courses in the Elder Conservatorium of Music

Rules

- 1 The Elder Conservatorium 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 Director 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 Director, 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 7.5 hours or 15 hours tuition per semester or 15 hours or 30 hours 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 Director.

Scholarships

- 8 (a) Auditions for Music Single Study scholarships offered by the Elder Conservatorium of Music shall be held annually. Applications on forms available from the Conservatorium 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 Director 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 Director, 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 Conservatorium 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 7.5 hours or 15 hours tuition per semester or 15 hours or 30 hours 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.

Graduate Attributes

Bachelor of Music

The Elder Conservatorium 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.

Graduate Attributes

Bachelor of Bachelor of Music Education

The Elder Conservatorium 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.

Graduate Attributes

Bachelor of Music Studies

The Elder Conservatorium 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.



Academic Program Rules

Faculty of Sciences

Contents

Diploma in Wine Marketing Dip.Wine Mark	283
Bachelor of Agriculture B.Ag	284
Bachelor of Food Science and Technology B.FS.& T	287
Bachelor of Oenology B.Oenol	289
Bachelor of Rural Enterprise Management B.R.Ent.Mgt	291
Bachelor of Science B.Sc.....	293
Bachelor of Science (Agricultural Science) B.Sc.(Agric.Sc.)	300
Bachelor of Science (Animal Science) B.Sc (Animal Sc.)	302
Bachelor of Science (Animal Science Pre-Veterinary) B.Sc.(Animal Sc. Pre-Vet.)	304
Bachelor of Science (Biomedical Science) B.Sc.(Biomed.Sc.)	306
Bachelor of Science (Biotechnology) B.Sc.(Biotech.)	308
Bachelor of Science (Ecochemistry) B.Sc.(Ecochem.)	310
Bachelor of Science (Evolutionary Biology) B.Sc.(Evol.Biol.)	312
Bachelor of Science (High Performance Computational Physics)(Honours) B.Sc.(High Perf.Comp.Phys.)(Hons.)	315
Bachelor of Science (Jurisprudence) B.Sc.(Jur.)	317
Bachelor of Science (Marine Biology) B.Sc.(Marine Biol.)	319
Bachelor of Science (Molecular and Drug Design) B.Sc.(Mol.& Drug Des.)	321
Bachelor of Science (Molecular Biology) B.Sc.(Mol.Biol.)	323
Bachelor of Science (Nanoscience and Materials) B.Sc.(Nanosc.& Mat.)	325
Bachelor of Science (Natural Resources) B.Sc.(NR)	327
Bachelor of Science (Optics & Photonics) B.Sc.(Optics & Photonics.)	329
Bachelor of Science (Petroleum GeoScience) B.Sc.(Petrol.GeoSc.)	331
Bachelor of Science (Space Science and Astrophysics) B.Sc.(Space Sc.& Astrophysics)	333
Bachelor of Science (Viticulture) B.Sc.(Viticult.)	335
Bachelor of Wine Marketing B.Wine.Mark	337
Bachelor of Arts and Bachelor of Science B.A./B.Sc	340

Undergraduate Awards

- Diploma in Agricultural Production*
- Diploma in Wine Marketing
- Degree of Bachelor of Agriculture
- Degree of Bachelor of Food Science and Technology
- 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 (Animal Science Pre-Veterinary)
- 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 (Marine Biology)
- 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 (Natural Resources)
- Degree of Bachelor of Science (Natural Resource Management)*
- Degree of Bachelor of Science (Optics & Photonics)
- Degree of Bachelor of Science (Petroleum GeoScience)
- 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 Environmental Science
- Honours degree of Bachelor of Natural Resource Management
- Honours degree of Bachelor of Science
- Honours degree of Bachelor of Wine Marketing

* Please note there will be no further intake into these programs. Rules are listed in the 2007 Undergraduate Calendar.

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.

Graduate Attributes

Bachelor of Science Degrees

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.

Graduate Attributes

Further Programs in the Faculty of Sciences

These graduate attributes apply to the following Academic Programs:

- All Diplomas
 - Bachelor of Agricultural Science (including all specialisations)
 - Bachelor of Agriculture
 - Bachelor of Food Science and Technology
 - Bachelor of Rural Enterprise Management
 - Bachelor of Science (Agricultural Science)
 - Bachelor of Science (Animal Science)
 - Bachelor of Science (Animal Science)(Pre-Vet)
 - Bachelor of Science (Natural Resource)
 - 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.



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

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 Wine Marketing as the Faculty in each case may determine.

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 degree 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 4 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 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 course.

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.



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

3.2.1 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 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.

3.2.2 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 degrees, as follows: Pass with High Distinction, Pass with Distinction, Pass with Credit, Pass. In addition there shall be a classification of Conceded Pass. However, a candidate may only present courses for which a Conceded Pass 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, 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 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 course.

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

Note To students commencing this program in 2008

This program is currently under review, and there may be changes to the structure and the courses offered in this program from 2009. While the courses listed at Level I reflect the courses available in 2008, courses listed at higher levels should be considered as indicative only.

Students commencing study in 2008 will be provided with access to the revised Academic Program Rules for this program as part of their enrolment process. The revised Rules will be available from the following web address:
www.adelaide.edu.au/calendar

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 1000RW Perspectives on Modern Agriculture	3
BIOLOGY 1103RW Cell Biology and Genetics.....	3
PLANT SC 1001RW Chemistry and Introductory Biochemistry A	3

semester 2

AGRIBUS 1009RW Rural Business Planning A.....	3
BIOLOGY 1203RW Biology of Plants & Animals...	3
SOIL&WAT 1000RW Soils and Land Management Systems	3
STATS 1002RW Data Management & Interpretation	3

Full year

AGRONOMY 1006ARW/BRW Agricultural Experience I	3
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Level II

Semester 1

AGRIBUS 2033RW Rural Finance & Marketing	4
AGRONOMY 2120RW Introduction to Engineering in Agriculture	2
SOIL&WAT 2012WT Soil and Water Resources.....	4

Semester 2

AGRONOMY 2008RW Agricultural Experience II	2
AGRONOMY 2013RW Production Agronomy.....	4
ANIML SC 2030RW Livestock Production Science	4
PLANT SC 2003RW Microbiology & 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 3012RW Advanced Agronomy.....	3
ANIML SC 3017RW Comparative Animal Physiology.....	3
ANIML SC 3045RW Animal Breeding and Genetics.....	3
HORTICUL 3000WT Production Horticulture.....	3
HORTICUL 3001WT Horticultural Systems.....	3
PLANT SC 3131WT Integrated Pest Management A.....	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
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Plus electives to the value of 9 units chosen from:

AGRIBUS 2009WT Issues in Australian Agribusiness	3
AGRIBUS 3010WT International Agribusiness Environment.....	3
AGRONOMY 3016RW Crop & Pasture Ecology.....	3
ANIML SC 3015RW Animal Nutrition & Metabolism.....	3
ANIML SC 3016RW Animal Health	3
PLANT SC 3004WT Mineral Nutrition of Plants...	3
PLANT SC 3200WT Plant Breeding.....	3
SOIL&WAT 3010 Remote Sensing.....	3
SOIL&WAT 3012WT Soil Water Management	3

Alternative electives are listed below:

Semester 1 or 2

AGRONOMY 3000RW Agroforestry.....	3
AGRONOMY 3008RW Individual Studies (Ag).....	3

Full year

PLANT SC 3030AEX/BEX Integrated Weed Management	3
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Summer semester/other vacation periods

AGRONOMY 3026RW Ecology & Management of Rangelands (a).....	3
ANIML SC 3019RW Ecology & Management of Vertebrate Pests (c)	3
ANIML SC 3043RW Animal Biotechnology (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 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:
ANIML SC 4004ARW/BRW Honours
Animal Science
HORTICUL 4003AWT/BWT Honours Horticulture
PLANT SC 4012AWT/BWT Honours Plant Science
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 Science and Technology

Students who commenced their program of study in 2003, 2004, 2005, 2006 or earlier will normally complete their course of study under the provision of the specific program rules current at the time of commencement. Students should consult the University of Adelaide Calendar - Handbook of Undergraduate Programs, for the year of starting.

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.

1 General

- 1.1 There shall be a Bachelor of Food Science and Technology and an Honours degree of Bachelor of Food Science and Technology.
- 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 the Bachelor of Science, may not proceed to the Honours degree of Bachelor of Food Science and Technology in the Faculty of Sciences in the same course.

2 Duration of program

The program for the 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

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 Science and Technology 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 classification of Conceded Pass. However, a candidate may only present courses for which a Conceded Pass has been obtained up to an aggregate value of 7 units. Courses for which a result of Conceded Pass has been obtained shall not satisfy any prerequisite requirement.
- 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 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 course.

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 Industry experience

Candidates are expected to gain practical experience in the food or beverage industry during the duration of the program.

5.3 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 72 units.

5.3.1 Level I

Semester 1

BIOLOGY 1101 Biology I: Molecules, Genes and Cells.....	3
CHEM 1100 Chemistry IA.....	3
<i>or</i>	
CHEM 1101 Foundations of Chemistry IA	3
PHYSICS 1008 Physics Principles & Applications I	3
FOOD SC 1001 Consumer Food and Health	3

Semester 2

BIOLOGY 1202 Biology I: Organisms	3
CHEM 1200 Chemistry IB.....	3
<i>or</i>	
CHEM 1201 Foundations of Chemistry IB	3
FOOD SC 1000RG Introduction to Food Technology	3
STATS 1004 Statistical Practice I (Life Sciences) ..	3

5.3.2 Level II

Semester 1

BIOCHEM 2106WT Biochemistry II (Agriculture) A	4
FOOD SC 2001RG Food Engineering Principles...2	
FOOD SC 2105RG Food Preservation & Packaging A	4
PLANT SC 2004WT General Microbiology II.....	2

Semester 2

FOOD SC 2002WT Nutrition II.....	4
FOOD SC 2003RG Food Microbiology II.....	4
FOOD SC 2205RG Plant Food Processing A	4

5.3.3 Level III

Semester 1

FOOD SC 3011RG Food Chemistry.....	3
FOOD SC 3021RG Food Product Development...3	
PLANT SC 3002WT Biotechnology in the Food and Wine Industry	2
WINEMKTG 3014WT/EX Food Marketing	4

Semester 2

APP ECOL 3017WT Communication in the Agri-food Industry.....	3
FOOD SC 3014RG Food Quality and Regulation ..	3
FOOD SC 3025RG Animal Food Processing	3
FOOD SC 3027RG Sensory Evaluation of Foods.....	3

5.4 The Honours degree

- 5.4.1 Candidates completing the Bachelor of Food Science and Technology to a standard which is acceptable to the Faculty may proceed to the Honours degree.
- 5.4.2 A candidate, subject to the approval of the Head of School, will proceed to the Honours degree in the following course:
FOOD SC 4000AWT/BWT
Honours Food Science and Technology.....24
- 5.4.3 The work of the Honours program must be completed in one year of full-time study, except where, on the recommendation of the Head of School, a candidate may complete the work for the Honours degree over two consecutive years, but no more.
- 5.4.4 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 |
| 3 | Third Class |
| NAH | Not Awarded. |

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 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

1 General

There shall be a degree of Bachelor of Oenology.

2 Duration of program

The program for the degree shall extend over four years of full-time study or the part-time equivalent. The first two years of the program shall follow the program of study for Level I and II of the Bachelor of Science (Viticulture) program as specified under the Academic Program Rule 2.4 of that program.

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 Oenology 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 classification of Conceded Pass. However, a candidate may only present courses for which a Conceded Pass has been obtained up to an aggregate value of 9 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 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 course.

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 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 desires to take a Level III course before completing all compulsory Level I and II courses must obtain the permission of the Faculty.

5.3 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.

5.3.1 Level III

Semester 1	
CHEM ENG 3007WT Winery Engineering.....	3
OENOLOGY 3007WT Stabilisation and Clarification	3
OENOLOGY 3016WT Cellar and Winery Waste Management	3
OENOLOGY 3047WT Winemaking at Vintage	3
Semester 2	
AGRIBUS 3017WT Business Management for Applied Sciences	3

OENOLOGY 3037WT Distillation, Fortified and Sparkling Winemaking.....	3
OENOLOGY 3046WT Fermentation Technology....	3
VITICULT 3012WT Viticultural Production.....	3

5.3.2 Level IV

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 chosen from courses offered by the Faculty of Sciences, with approval of the B.Oenol. Program Coordinator, or from the following recommended courses:

FREN 3013WT Technical French (Oenology)	3
HORTICUL 3004WT Olive Production & Marketing (a).....	3
PLANT SC 3002WT Biotechnology in the Food and Wine Industries.....	2
SOIL&WAT 3014WT GIS for Agricultural Sciences (b)	3

or

OENOLOGY 4002WT Honours Oenology.....	12
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(a) July (b) Sept

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 Rural Enterprise Management

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. However, a candidate may only present a maximum of one course at the Conceded Pass level towards this award.

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.

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 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 course.

4 Qualification 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 3046 ARW/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
SOIL&WAT 3014WT GIS for Agricultural Sciences (b)	3
WINEMKTG 3014WT/EX Food Marketing	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
PLANT SC 3200WT Plant Breeding.....	3
Animal Production	
ANIML SC 2030RW Livestock Production Science	4
ANIML SC 3015RW Animal Nutrition & Metabolism.....	3
ANIML SC 3016RW Animal Health	3
ANIML SC 3045RW Animal Breeding and Genetics.....	3
Horticulture	
HORTICUL 3000WT Production Horticulture	3
HORTICUL 3001WT Horticulture Systems.....	3
HORTICUL 3004WT Olive Production and Marketing (MY)*	3

* These courses offered at specified times:
 MY - mid-year break (b) Sep (c) Summer

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 prior to 2004 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.

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 program

The program of study for the 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 - 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. However, a candidate may only present courses for which a Conceded Pass has been obtained up to an aggregate value of 7 units, or to an aggregate value of 3 units for the 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 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 course.

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 candidate shall present passes in Level I courses to the value of not more than 30 units
- a candidate shall present passes in Level III courses to the value of at least 24 units
- 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 As part of the requirements of 5.2 above, a candidate may, in lieu of Level I or II courses, present passes to the value of 8 units in 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 courses 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 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 in Anatomical Sciences to the value of at least 9 units.

Biochemistry

Courses to the value of at least 9 units.

Botany

Courses to the value of at least 9 units, which include:

ENV BIOL 3002 Australian Biota:
Past, Present and Future3

and

ENV BIOL 3009 Ecophysiology of Plants III.....3
and an additional Environmental Biology course to the value of 3 units.

Chemistry

Courses offered in Chemistry to the value of at least 9 units, which include:

CHEM 3111 Chemistry III6

Chemistry - Double Major

Courses offered in Chemistry to the value of at least 18 units, which include:

CHEM 3111 Chemistry III6

Ecology

Courses to the value of at least 9 units which include:

ENV BIOL 3121 Concepts in Ecology3

and at least two of

ENV BIOL 3004 Freshwater Ecology.....3

ENV BIOL 3008 Conservation and Restoration.....3

ENV BIOL 3010 Marine Ecology 3

PLANT SC 3231WT Insect Ecology.....3

SOIL&WAT 3016WT Soil Ecology
and Nutrient Cycling.....3

Entomology

ENV BIOL 3011 Evolution and Diversity
of Insects 3

and

PLANT SC 3231WT Insect Ecology.....3

and either

ENV BIOL 3002 Australian Biota:
Past, Present and Future3

or

ENV BIOL 3008 Conservation & Restoration.....3

or

ENV BIOL 3122 Evolution & Palaeobiology III3

Environmental Geoscience

Courses to the value of at least 9 units, which include:

GEOLOGY 3014 Environmental Geoscience
Applications III3

GEOLOGY 3015 Environmental Geoscience
Processes III.....3

SOIL&WAT 3007WT GIS for Environmental
Management3

or

SOIL&WAT 3010 Remote Sensing.....3

Geology

Courses to the value of at least 9 units, which include:

GEOLOGY 3013 Tectonics III	3
GEOLOGY 3016 Igneous & Metamorphic Geology III	3
GEOLOGY 3019 Field Geoscience Program III	3

Geophysics

Courses to the value of at least 9 units:

GEOLOGY 3008 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.

Marine Biology

Courses to the value of at least 9 units, which include:

ENV BIOL 3006 Research Methods in Environmental Biology III	3
<i>and</i>	
ENV BIOL 3010 Marine Ecology	3
<i>and either</i>	
ENV BIOL 3121 Concepts in Ecology	3
<i>or</i>	
ENV BIOL 3122 Evolution & Palaeobiology III	3

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 12 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
<i>and at least two of</i>	
PHYSICS 3001 Electromagnetism & Optics III	3
PHYSICS 3004 Quantum Mechanics IIIA	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 IIIA	3
PHYSICS 3006 Advanced Dynamics & Relativity	3
PHYSICS 3009 Statistical Mechanics III	2
<i>and at least one of</i>	
PHYSICS 3000 Computational Physics III	2
PHYSICS 3022 Quantum Mechanics IIIB	2

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 IIIA	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
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Soil Science

Courses to the value of at least 9 units, which include at least two of the following:

SOIL&WAT 3002WT Soil Management & Conservation	3
SOIL&WAT 3012WT Soil Water Management	3
SOIL&WAT 3016WT Soil Ecology & Nutrient Cycling	3

and additional courses if required, from the following:

GEOLOGY 3014 Environmental Geoscience Applications III	3
PLANT SC 3004WT Mineral Nutrition of Plants	3
SOIL&WAT 3004WT Environmental Toxicology & Remediation	3

Spatial Information

SOIL&WAT 3007WT GIS for Environmental Management	3
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or

SOIL&WAT 3014WT GIS for Agricultural Sciences..... 3
and

SOIL&WAT 3010 Remote Sensing..... 3
and

GEOLOGY 3015 Environmental Geoscience Processes III..... 3

or an additional Level III course from Soil & Land Systems or Ecology & Evolutionary Biology

Wildlife

Courses to the value of at least 9 units, which include:

ENV BIOL 3003 Ecophysiology of Animals III..... 3

ENV BIOL 3008 Conservation and Restoration..... 3

ENV BIOL 3122 Evolution and Palaeobiology 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..... 3

PATHOL 3003 General Pathology IIIHS 6

PLANT SC 3030AEX/BEX Integrated Weed Management 3

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

Note To students commencing this program in 2008

This program is currently under review, and there may be changes to the structure and the courses offered in this program from 2009. While the courses listed at Level I reflect the courses available in 2008, courses listed at higher levels should be considered as indicative only.

Students commencing study in 2008 will be provided with access to the revised Academic Program Rules for this program as part of their enrolment process. The revised Rules will be available from the following web address: www.adelaide.edu.au/calendar

5.6.1 Level I Sciences

Semester 1

BIOLOGY 1101 Biology I: Molecules, Genes & Cells..... 3

CHEM 1100 Chemistry IA..... 3

CHEM 1101 Foundations of Chemistry IA..... 3

GEOLOGY 1103 Earth Systems 3

PHYSICS 1002 Astronomy I 3

PHYSICS 1008 Physics Principles & Applications I..... 3

PHYSICS 1100 Physics IA..... 3

PHYSICS 1101 Physics for the Life & Earth Sciences IA 3

PSYCHOL 1000 Psychology IA..... 3

STATS 1000 Statistical Practice I..... 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 IB	3
ENV BIOL 1002 Ecological Issues.....	3
GEOLOGY 1100 Earth's Interior I	3
PHYSICS 1200 Physics IB.....	3
PHYSICS 1201 Physics for the Life & Earth Sciences IB	3
PSYCHOL 1001 Psychology IB.....	3

5.6.2 Level I Mathematical & Computer Sciences

All Level I Mathematical and Computer Sciences courses listed under Academic Program Rule 4.2.1.1 of the degree of Bachelor of Mathematical and Computer Sciences, excluding COMP SCI 1003 Internet Computing.

5.6.3 Level II 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 2006 Botany II	4
GENETICS 2100 Genetics IIA: Foundations 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
SOIL&WAT 2011RW Spatial Information and Land Evaluation	4
SOIL&WAT 2012 Soil and Water Resources	4
Semester 2	
ANAT SC 2105 Comparative Anatomy of Body Systems II	4
BIOCHEM 2200 Biochemistry IIB.....	4
CHEM 2200 Chemistry IIB.....	4
CHEM 2207 Analytical Chemistry II	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 Landscape Processes and Environments II.....	4
MICRO 2005 Immunology and Virology II	4
PHYSICS 2002 Classical Fields and Mathematical Methods II	2
PHYSICS 2009 Photonics II	2
PHYSICS 2200 Physics IIB.....	4
PHYSICS 2201 Astrophysics II	2
PHYSICS 2211 Electromagnetism II.....	2
PHYSIOL 2004 Human Physiology IIB: Homeostasis and Nervous System.....	4
PSYCHOL 2003 Psychology IIB.....	4

5.6.4 Level II Mathematical & 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 4.2.2.1 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.	

5.6.5 Level III Science

Agronomy	
Semester 2	
AGRONOMY 3000RW Agroforestry.....	3
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 3111 Chemistry III 6

CHEM 3112 Chemistry Applications III 6

Semester 2

CHEM 3211 Heterocyclic Chemistry
and Molecular Devices III 3

CHEM 3212 Materials Chemistry III 3

CHEM 3213 Advanced Synthetic Methods III 3

CHEM 3214 Medicinal and Biological
Chemistry III 3

Clinical and Experimental Pharmacology

Semester 1

PHARM 3010 Pharmacology A III 6

Semester 2

PHARM 3011 Pharmacology B III 6

Environmental Biology

Semester 1

ENV BIOL 3004 Freshwater Ecology III 3

ENV BIOL 3006 Research Methods in
Environmental Biology III 3

ENV BIOL 3011 Evolution and Diversity
of Insects 3

ENV BIOL 3121 Concepts in Ecology 3

ENV BIOL 3122 Evolution and Palaeobiology 3

Semester 2

ENV BIOL 3002 Australian Biota:
Past, Present & Future 3

ENV BIOL 3003 Ecophysiology of Animals III 3

ENV BIOL 3008 Conservation and Restoration 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 3015 Environmental Geoscience
Processes III 3

GEOLOGY 3016 Igneous & Metamorphic
Geology III 3

GEOLOGY 3017 Petroleum Exploration III 3

Semester 2

GEOLOGY 3008 Theoretical Geophysics III 3

GEOLOGY 3014 Environmental Geoscience
Applications III 3

GEOLOGY 3018 Mineral Exploration III 3

GEOLOGY 3019 Field Geoscience
Program III 3

SOIL&WAT Remote Sensing 3

Molecular Biosciences

Semester 1

BIOCHEM 3000 Molecular and Structural
Biology III 6

GENETICS 3111 Genes, Genomes
and Molecular Evolution 6

MICRO 3000 Infection and Immunity A 6

Semester 2

BIOCHEM 3001 Cell & Developmental
Biology III 6

GENETICS 3211 Gene Expression and Human
and Developmental Genetics 6

MICRO 3001 Infection and Immunity B 6

Physics

Semester 1

PHYSICS 3000 Computational Physics III 2

PHYSICS 3001 Electromagnetism & Optics III 3

PHYSICS 3004 Quantum Mechanics IIIA 3

PHYSICS 3009 Statistical Mechanics III 2

PHYSICS 3013 Astrophysics III 2

PHYSICS 3018 Electromagnetism III 2

PHYSICS 3019 Physical Optics III 2

Semester 2

PHYSICS 3002 Experimental Physics III 3

PHYSICS 3006 Advanced Dynamics & Relativity 3

PHYSICS 3014 Atmospheric and
Environmental Physics III 2

PHYSICS 3020 Photonics III 2

PHYSICS 3022 Quantum Mechanics IIIB 2

Physiology

Semester 1

PHYSIOL 3001 Neurobiology III 6

Semester 2

PHYSIOL 3000 Advanced Systems Physiology 6

Plant and Pest Science

Semester 2

PLANT SC 3004WT Mineral Nutrition of Plants 3

PLANT SC 3009WT Plant Molecular Biology 6

PLANT SC 3200WT Plant Breeding 3

PLANT SC 3231WT Insect Ecology 3

Psychology

Semester 1

PSYCHOL 3000 Psychological Research
Methodology III 4

PSYCHOL 3013 Learning and Behaviour III 2

PSYCHOL 3014 Individual Differences III 2

PSYCHOL 3016 Language Processes III 2

PSYCHOL 3017 Health Psychology III 2

PSYCHOL 3019 Perception III 2

Semester 2	
PSYCHOL 3003 Developmental Psychology III.....	2
PSYCHOL 3006 Psychology, Physiology & Behaviour III	2
PSYCHOL 3009 Metapsychology: Psychology, Science and Society III	2
PSYCHOL 3010 Social Psychology III.....	2
PSYCHOL 3015 Human Relations III.....	2
PSYCHOL 3018 Cognition III	2

Soil and Land Systems

Summer semester	
SOIL&WAT 3004WT Environmental Toxicology and Remediation	3
SOIL&WAT 3007WT GIS for Environmental Management	3
Semester 1	
SOIL&WAT 3016WT Soil Ecology & Nutrient Cycling.....	3
SOIL&WAT 3022WT Soil Management & Conservation.....	3
Semester 2	
SOIL&WAT 3012WT Soil Water Management	3
SOIL&WAT 3014WT GIS for Agricultural Sciences.....	3

5.6.6 Level III Mathematical & Computer Sciences

All Level III Mathematical and Computer Sciences courses listed under the Academic Program Rule 4.2.3.1 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:
 - ANIML SC 4004RW Honours Animal Science
 - BIOCHEM 4000 Honours Biochemistry
 - CHEM 4000 Honours Chemistry
 - ENV BIOL 4000 Honours Environmental Biology
 - ENV BIOL 4002 Honours Botany and Geology
 - ENV BIOL 4003 Honours Rangeland Science and Management S
 - GENETICS 4000 Honours Genetics
 - GEOLOGY 4000 Honours Geology
 - GEOLOGY 4001 Honours Geophysics
 - GEOLOGY 4002 Honours Environmental Geoscience
 - HORTICUL 4003WT Honours Wine & Horticulture

MICRO 4000 Honours Microbiology & Immunology	
PETROL 4000 Honours Petroleum Geology and Geophysics	
PHYSICS 4000 Honours Physics	
PHYSICS 4001 Honours Mathematical Physics	
PHYSIOL 4000 Honours Physiology	
PLANT SC 4012WT Honours Plant & Pest Science	
SOIL&WAT 4001WT Honours Soil & Land Systems	
VITICULT 4006WT Honours Viticulture	

- 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)

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 & III
- (b) a candidate shall complete a major in a discipline as set out in 2.3 below.

2.3 Academic program

Note To students commencing this program in 2008

This program is currently under review, and there may be changes to the structure and the courses offered in this program from 2009. While the courses listed at Level I reflect the courses available in 2008, courses listed at higher levels should be considered as indicative only.

Students commencing study in 2008 will be provided with access to the revised Academic Program Rules for this program as part of their enrolment process. The revised Rules will be available from the following web address: www.adelaide.edu.au/calendar

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 I: Molecules, Genes and Cells.....	3
CHEM 1101 Foundations of Chemistry IA	3
<i>or</i>	
CHEM 1100 Chemistry IA.....	3

Semester 2

BIOLOGY 1202 Biology I: Organisms	3
CHEM 1201 Foundations of Chemistry IB	3
<i>or</i>	
CHEM 1200 Chemistry IB.....	3
GEOLOGY 1200 Earth's Environment	3
STATS 1004 Statistical Practice I (Life Sciences)*	3
together with an additional Level I course to the value of 3 units chosen from:	
AGRIBUS 1009RW Rural Business Planning A.....	3
FOOD SC 1000RG Introduction to Food Technology.....	3
FOOD SC 1001 Consumers Food and Health.....	3
MATHS 1013 Mathematics IMA.....	3
PHYSICS 1008 Physics Principles and Applications I	3
PHYSICS 1101 Physics for Life and Earth Sciences IA	3
WINEMKTG 1013WT/EX Wine and Food Marketing Principles	3
WINEMKTG 1026EX Microeconomic Principles.....	3
<i>or from level 1 courses offered in the Faculty of Sciences, or in other departments and schools in the University.</i>	

* *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 2003RW 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

- AGRONOMY 2013RW Production Agronomy 3
- AGRONOMY 3012RW Advanced Agronomy 3
- AGRONOMY 3016RW Crop & Pasture Ecology..... 3
- PLANT SC 3004WT Mineral Nutrition of Plants..... 3
- PLANT SC 3009WT Plant Molecular Biology 6
- PLANT SC 3200WT Plant Breeding..... 3

Horticulture Science

- HORTICUL 3000WT Production Horticulture ... 3
- HORTICUL 3001WT Horticulture Systems 3
- HORTICUL 3004WT Olive Production and Marketing (a)..... 3

Land Management and Soil Conservation

- AGRONOMY 3026RW Ecology and Management of Rangelands..... 3
- SOIL&WAT 3002WT Soil Management & Conservation..... 3
- SOIL&WAT 3010 Remote Sensing 3
- SOIL&WAT 3012WT Soil Water Management 3
- SOIL&WAT 3014WT GIS for Agricultural Science (c) 3
- SOIL&WAT 3016WT Soil Ecology & Nutrient Cycling..... 3

Livestock Science

- ANIML SC 3015RW Animal Nutrition and Metabolism..... 3
- ANIML SC 3016RW Animal Health 3
- ANIML SC 3017RW Comparative Animal Physiology 3
- ANIML SC 3043RW Animal Biotechnology 3
- ANIML SC 3045RW Animal Breeding and Genetics..... 3

Pest Science

- ANIML SC 3019RW Ecology & Management of Vertebrate Pests 3
- PLANT SC 3030AEX/BEX Integrated Weed Management 3
- PLANT SC 3130WT Plant Pathology 3
- PLANT SC 3131WT Integrated Pest Management 3
- PLANT SC 3231WT Insect Ecology 3

Group 3

- (c) passes in a further Level II courses to the value of 9 units chosen from the other discipline majors or from other courses offered by the Faculty of Sciences, with the approval of the BSc (Ag.Sc.) Program Coordinator, or from the following recommended courses:

- AGRIBUS 3010WT International Agribusiness Environment 3
- AGRIBUS 3012RW Rural Business Management 3
- AGRIBUS 3017WT Business Management for Applied Science 3
- AGRONOMY 3000RW Agroforestry..... 3
- AGRONOMY 3005WT Irrigation Science 3
- VITICULT 3020WT Table and Drying Grape Production 3

(a) July (b) Summer (c) Sept.

2.4 The Honours degree

Refer to Academic Program Rule 5.7 of 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 (Animal Science)

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 candidate shall present passes in courses to the value of 24 units at each of Level I, II and III.

2.3 Academic program

Note To students commencing this program in 2008

This program is currently under review, and there may be changes to the structure and the courses offered in this program from 2009. While the courses listed at Level I reflect the courses available in 2008, courses listed at higher levels should be considered as indicative only.

Students commencing study in 2008 will be provided with access to the revised Academic Program Rules for this program as part of their enrolment process. The revised Rules will be available from the following web address: www.adelaide.edu.au/calendar

2.3.1 Level I

Passes in Level I courses which shall include:

Semester 1

ANIML SC 1015RW Perspectives in Animal Science	3
BIOLOGY 1101 Biology I: Molecules, Genes and Cells.....	3
CHEM 1100 Chemistry IA.....	3
<i>or</i>	
CHEM 1101 Foundations of Chemistry IA	3

Semester 2

ANIML SC 1016RW Principles in Animal Behaviour, Welfare & Ethics.....	3
BIOLOGY 1202 Biology I : Organisms	3
CHEM 1200 Chemistry IB.....	3
<i>or</i>	
CHEM 1201 Foundations of Chemistry IB	3
STATS 1004 Statistical Practice I (Life Sciences)*.....	3
Passes in additional courses to the value of 3 units chosen from:	

Semester 1

PHYSICS 1008 Physics Principles & Applications I.....	3
<i>or</i>	
PHYSICS 1101 Physics for Life and Earth Sciences IA	3

Semester 2

ENV BIOL 1002 Ecological Issues.....	3
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* *STATS 1000 Statistical Practice I (offered in Semester 1 & 2) may be taken instead of STATS 1004 Statistical Practice I (Life Sciences)*

2.3.2 Level II

Passes in Level II courses which shall include:

Semester 1

ANIML SC 2031RW Companion Animal & Equine Studies.....	4
BIOCHEM 2106WT 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 2003RW 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
ANIML SC 3100RW Laboratory Animal Science	3

Semester 2

ANIML SC 3015RW Animal Nutrition & Metabolism.....	3
ANIML SC 3016RW Animal Health	3
ANIML SC 3230RW Animal Behaviour, Welfare & Ethics	3
and electives to the value of 6 units chosen from:	
AGRIBUS 3017WT Business Management for Applied Science	3
AGRONOMY 3020RW Principles and Practice of Communications	3
AGRONOMY 3026RW Ecology and Management of Rangelands (b).....	3
ANIML SC 3019RW Ecology and Management of Vertebrate Pests (a)	3
ANIML SC 3043RW Animal Biotechnology (a).....	3
BIOMET 3000WT Agricultural Experimentation.....	3
ENV BIOL 3008 Conservation and Restoration.....	3
ENV BIOL 3121 Concepts in Ecology EBIII.....	3
(a) Summer (b) July	

2.4 The Honours degree

Refer to Academic Program Rule 5.7 of 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 (Animal Science Pre-Veterinary)

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 Pre-Veterinary).

2 Academic Progress

- 2.1 A candidate must maintain the prescribed level of performance for progression from each of Levels I, II, and III. Any student who fails to maintain a minimum cumulative GPA of 4.00 or greater (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 in December of the year concerned. The letter will outline the show cause procedures.
- 2.2 A candidate who does not maintain the level of performance prescribed in 2.1 may not proceed with the Bachelor of Science (Animal Science Pre-Veterinary) program and will be required to transfer into the Bachelor of Science (Animal Science) program.

3 Qualification requirements

- 3.1 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.
- 3.2 To qualify for the degree a candidate shall pass courses, listed in 3.3 below, to the value of 72 units.

3.3 Academic program

3.3.1 Level I

Semester 1

AGRIC 1015RW Perspectives in Animal Science...	3
BIOLOGY 1101 Biology I: Molecules, Genes and Cells.....	3
CHEM 1100 Chemistry IA.....	3
<i>or</i>	
CHEM 1101 Foundations of Chemistry IA	3
PHYSICS 1101 Physics for the Life and Earth Sciences IA	3

or

PHYSICS 1008 Physics Principles and Applications	3
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Semester 2

ANIML SC 1016RW Principles in Animal Behaviour, Welfare and Ethics.....	3
BIOLOGY 1202 Biology I: Organisms	3
CHEM 1200 Chemistry IB.....	3

or

CHEM 1201 Foundations of Chemistry IB	3
STATS 1004 Statistical Practice I (Life Sciences)	3

3.3.2 Level II

Courses in the areas of:

Semester 1

Comparative Veterinary Anatomy.....	3
Comparative Veterinary Physiology.....	3
Statistics (Research Methods)	3

and

One 3-unit course in Biochemistry.....	3
--	---

Semester 2

Animal Reproduction and Genetics	3
Comparative Veterinary Anatomy.....	3
Comparative Veterinary Physiology.....	3
Veterinary Skills I.....	3

3.3.3 Level III

Courses in the areas of:

Semester 1

Animal Nutrition.....	3
Veterinary Immunology.....	3
Veterinary Microbiology.....	3
Veterinary Parasitology	3

Semester 2

Veterinary Skills.....	3
Veterinary Pharmacology and Toxicology.....	3
Veterinary Microbiology.....	3
Veterinary Parasitology	3

3.4 The Honours degree

Refer to Academic Program Rule 5.7 of the degree of Bachelor of Science.

3.5 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.

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 (Biomedical Science)

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 candidate shall present passes in Level I courses to the value of not more than 24 units
- a candidate shall present passes in Level II courses to the value of not less than 24 units
- a candidate shall present passes in Level III courses to the value of not less than 24 units

2.3 Academic program

Note To students commencing this program in 2008

This program is currently under review, and there may be changes to the structure and the courses offered in this program from 2009. While the courses listed at Level I reflect the courses available in 2008, courses listed at higher levels should be considered as indicative only.

Students commencing study in 2008 will be provided with access to the revised Academic Program Rules for this program as part of their enrolment process. The revised Rules will be available from the following web address: www.adelaide.edu.au/calendar

2.3.1 Level I

Passes in Level I courses which shall include:

BIOLOGY 1101 Biology I:
Molecules, Genes and Cells.....3

and

BIOLOGY 1201 Biology I: Human Perspectives....3

CHEM 1100 Chemistry IA.....3

or

CHEM 1101 Foundations of Chemistry IA3

and

CHEM 1200 Chemistry IB.....3

or

CHEM 1201 Foundations of Chemistry IB3

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 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 II4

BIOCHEM 2100 Biochemistry IIA.....4

and

BIOCHEM 2200 Biochemistry IIB.....4

GENETICS 2100 Genetics IIA:

Foundations of Genetics4

and

GENETICS 2200 Genetics IIB:
Function and Diversity of Genomes.....4
MICRO 2004 Microbiology II.....4

and

MICRO 2005 Immunology and Virology II4
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 in accordance with Academic Program Rules 5.3, 5.6.3 and 5.6.4 of the Bachelor of Science, 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:

MICRO 3102 Infection and Immunity A
(Biomedical Science) 6

and

MICRO 3202 Infection and Immunity B
(Biomedical Science)..... 6

GENETICS 3111 Genes, Genomes and
Molecular Evolution..... 6

and

GENETICS 3212 Gene Expression and Human
and Developmental Genetics
(Biomedical Science) 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)

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

Note To students commencing this program in 2008

This program is currently under review, and there may be changes to the structure and the courses offered in this program from 2009. While the courses listed at Level I reflect the courses available in 2008, courses listed at higher levels should be considered as indicative only.

Students commencing study in 2008 will be provided with access to the revised Academic Program Rules for this program as part of their enrolment process. The revised Rules will be available from the following web address: www.adelaide.edu.au/calendar

2.3.1 Level I

Passes in Level I courses which shall include:

- BIOLOGY 1101 Biology I: Molecules, Genes and Cells.....3
- and*
- BIOLOGY 1201 Biology I: Human Perspectives....3
- and/or*
- BIOLOGY 1202 Biology I: Organisms3
- BIOTECH 1000 Introduction to Biotechnology3

- CHEM 1100 Chemistry IA.....3
- or*
- CHEM 1101 Foundations of Chemistry IA3
- and*
- CHEM 1200 Chemistry IB.....3
- or*
- CHEM 1201 Foundations of Chemistry IB3
- CHEM ENG 1004 Introduction to Bio-processing.....3
- together with additional Level I courses 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 (Biotechnology) A4
 - 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)

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

Note To students commencing this program in 2008

This program is currently under review, and there may be changes to the structure and the courses offered in this program from 2009. While the courses listed at Level I reflect the courses available in 2008, courses listed at higher levels should be considered as indicative only.

Students commencing study in 2008 will be provided with access to the revised Academic Program Rules for this program as part of their enrolment process. The revised Rules will be available from the following web address: www.adelaide.edu.au/calendar

2.3.1 Level I

Passes in Level I courses to the value of 24 units which shall include:

BIOLOGY 1101 Biology I:
Molecules, Genes and Cells.....3
BIOLOGY 1202 Biology I: Organisms3

or

ENV BIOL 1002 Ecological Issues.....3
CHEM 1100 Chemistry IA.....3

or

CHEM 1101 Foundations of Chemistry IA3
CHEM 1200 Chemistry IB.....3

or

CHEM 1201 Foundations of Chemistry IB3
GEOLOGY 1100 Earth's Interior I3
GEOLOGY 1103 Earth Systems3

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 Ecological Issues, but only with prior approval from the Program Coordinator.

2.3.2 Level II

Passes in Level II courses which include:

(i) passes in core courses

Semester 1

CHEM 2003 Environmental Chemistry II4
CHEM 2105 Chemistry IIA (Ecochemistry)4

Semester 2

CHEM 2205 Chemistry IIB (Ecochemistry)4
CHEM 2208 Analytical Chemistry II
(Ecochemistry).....4

(ii) passes in Level II courses to the value of 8 units from the list below

ENV BIOL 2001 Evolutionary Biology EBII4
ENV BIOL 2003 Ecology EBII4
GEOLOGY 2007 Sedimentary
& Structural Geology II 4
GEOLOGY 2008 Landscape Processes
and Environments II 4
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 III courses which shall include:

(i) passes in core courses

CHEM 3111 Chemistry III.....6
CHEM 3112 Chemical Applications III6
CHEM 3211 Heterocyclic Chemistry
& Molecular Devices III.....3
CHEM 3212 Materials Chemistry III.....3

- (ii) passes in Level III courses to the value of 6 units taken from the list below:

ENV BIOL 3008 Conservation and Restoration	3
ENV BIOL 3010 Marine Ecology III	3
ENV BIOL 3012WT Integrated Catchment Management III	3
GEOLOGY 3014 Environmental Geoscience Applications III	3
GEOLOGY 3015 Environmental Geoscience Processes III	3
SOIL&WAT 3004WT Environmental Toxicology and Remediation	3
SOIL&WAT 3012WT Soil Water Management	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.

A candidate shall complete a major in chemistry, comprising passes (not conceded passes) in any course 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 (Evolutionary Biology)

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 at Level II and III as set out in 2.3.2 and 2.3.3 below.

2.3 Academic program

Note To students commencing this program in 2008

This program is currently under review, and there may be changes to the structure and the courses offered in this program from 2009. While the courses listed at Level I reflect the courses available in 2008, courses listed at higher levels should be considered as indicative only.

Students commencing study in 2008 will be provided with access to the revised Academic Program Rules for this program as part of their enrolment process. The revised Rules will be available from the following web address: www.adelaide.edu.au/calendar

2.3.1 Level I

Level I courses to the value of 24 units which shall include:

Passes in core courses

Semester 1

BIOLOGY 1101 Biology I: Molecules, Genes & Cells.....	3
GEOLOGY 1103 Earth Systems	3

together with an additional 6 units of Level I courses chosen from the following electives:

CHEM 1100 Chemistry IA.....	3
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or

CHEM 1101 Foundations of Chemistry IA	3
MATHS 1011 Mathematics IA	3
MATHS 1013 Mathematics IMA.....	3
STATS 1000 Statistical Practice I.....	3

or

other courses offered by the Faculty of Sciences. A maximum of 3 units may be taken from 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.

Semester 2

BIOLOGY 1202 Biology I: Organisms	3
ENV BIOL 1002 Ecological Issues.....	3
GEOLOGY 1100 Earth's Interior	3

together with an additional 3 units of Level I courses chosen from the following electives:

CHEM 1200 Chemistry IB.....	3
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or

CHEM 1201 Foundations of Chemistry IB	3
MATHS 1011 Mathematics IA	3
MATHS 1012 Mathematics IB	3
STATS 1004 Statistical Practice I (Life Sciences) ..	3

or

other courses offered by the Faculty of Sciences. A maximum of 3 units may be taken from 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.

2.3.2 Level II

Passes in Level II courses as follows.

for a major in Palaeontology, 12 units from:

ENV BIOL 2000 Zoology EB II	4
ENV BIOL 2002 Botany II	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 EBII	4
ENV BIOL 2002 Botany EBII	4
ENV BIOL 2003 Ecology EBII	4
GENETICS 2100 Genetics IIA: Foundations of Genetics*.....	4
GENETICS 2200 Genetics IIB: Function & Diversity Genomes*	4
GEOLOGY 2008 Landscape Processes and Environments II.....	4
<i>* Students wishing to enrol in GENETICS 3111 Genes, Genomes & Molecular Evolution 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.</i>	

For a major in Systematics and Molecular Evolution, 16 units from:

ENV BIOL 2000 Zoology EBII	4
<i>or</i>	
ENV BIOL 2002 Botany II	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 EBII	4
ENV BIOL 2002 Botany II	4
ENV BIOL 2003 Ecology EBII	4
GEOLOGY 2007 Sedimentary and Structural Geology II	4
GEOLOGY 2008 Landscape Processes and Environments II.....	4
<i>* Students wishing to enrol in GENETICS 3111 Genes, Genomes & Molecular Evolution as part of the Level III Systematics and Molecular Evolution major must enrol in both GENETICS 2100 Genetics IIA: Foundations of Genetics and GENETICS 2200 Genetics IIB: Function & Diversity Genomes.</i>	

2.3.3 Level III

Passes in Level III courses as follows:

for a major in Palaeontology:

Semester 1

ENV BIOL 3122 Evolution and Palaeobiology	3
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Semester 2

ENV BIOL 3002 Australian Biota: Past, Present & Future	3
ENV BIOL 3123 Issues in Evolutionary Biology	3
GEOLOGY 3014 Environmental Geoscience Applications III	3

with electives to the value of 12 units chosen from courses listed in Program Rule 2.3.3 for this degree, or courses listed under Academic Program Rule 5.6.5 for the degree of Bachelor of Science

Recommended electives include:

Semester 1

ENV BIOL 3006 Research Methods in Environmental Biology.....	3
ENV BIOL 3011 Evolution and Diversity of Insects	3
ENV BIOL 3121 Concepts in Ecology	3
GENETICS 3111 Genes, Genomes & Molecular Evolution.....	6

Semester 2

GEOLOGY 3013 Tectonics III.....	3
GEOLOGY 3015 Environmental Geoscience Processes III.....	3
SOIL&WAT 3010 Remote Sensing.....	3

For a major in Systematics and Molecular Evolution:

Semester 1

ENV BIOL 3122 Evolution and Palaeobiology	3
GENETICS 3111 Genes, Genomes and Molecular Evolution.....	6

Semester 2

ENV BIOL 3002 Australian Biota: Past, Present & Future	3
ENV BIOL 3123 Issues in Evolutionary Biology	3

with electives to the value of 9 units chosen from courses listed under Academic Program Rule 5.6.5 for the degree of Bachelor of Science. Recommended electives include:

Semester 1

ENV BIOL 3006 Research Methods in Environmental Biology.....	3
ENV BIOL 3011 Evolution and Diversity of Insects	3
ENV BIOL 3121 Concepts in Ecology	3
GEOLOGY 3013 Tectonics III.....	3

Semester 2

ENV BIOL 3003 Ecophysiology of Animals.....	3
ENV BIOL 3008 Conservation and Restoration.....	3
ENV BIOL 3009 Ecophysiology of Plants.....	3
ENV BIOL 3010 Marine Ecology	3
GENETICS 3121 Gene Expression & Human Developmental Genetics	6
GEOLOGY 3014 Environmental Geoscience Applications	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 and Computational Physics)(Honours)

These rules should be read in conjunction with Academic Program rules parts 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 Duration of program

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

3 Qualification requirements

3.1 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.

3.2 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 candidate shall present passes in Level I courses to the value of not more than 24 units
- a candidate shall present passes in Level II courses to the value of not less than 24 units
- a candidate shall present passes in Level III courses to the value of not less than 24 units
- a candidate shall present passes in Level IV courses to the value of not less than 24 units.

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.

3.3 Academic program

Note To students commencing this program in 2008

This program is currently under review, and there may be changes to the structure and the courses offered in this program from 2009. While the courses listed at Level I reflect the courses available in 2008, courses listed at higher levels should be considered as indicative only.

Students commencing study in 2008 will be provided with access to the revised Academic Program Rules for this program as part of their enrolment process. The revised Rules will be available from the following web address:
www.adelaide.edu.au/calendar

3.3.1 Level I

Passes in Level I courses which shall include:

Semester 1

COMP SCI 1008 Computer Science IA.....	3
MATHS 1011 Mathematics IA.....	3
PHYSICS 1100 Physics IA.....	3

Semester 2

COMP SCI 1009 Computer Science IB.....	3
MATHS 1012 Mathematics IB.....	3
PHYSICS 1200 Physics IB.....	3

together with additional level I courses to the value of 6 units, selected in consultation with the Program Coordinator and in accordance with the Academic Program Rules 5.3 and 5.6 for the degree of Bachelor of Science. A selection from the following courses is recommended:

APP MTH 1000 Scientific Computing I.....	3
CHEM 1100 Chemistry IA.....	3
CHEM 1200 Chemistry IB.....	3
ELEC ENG 1006 Electrical Engineering I.....	3

3.3.2 Level II

Passes in Level II courses to the value of not less than 24 units which shall include:

Semester 1

APP MATH 2000 Differential Equations and Fourier Series.....	2
APP MATH 2002 Vector Analysis and Complex Analysis.....	2
PHYSICS 2001 Classical Mechanics II.....	2
PHYSICS 2100 Physics IIA.....	4

Semester 2

PHYSICS 2002 Classical Fields and Mathematical Methods II.....	2
PHYSICS 2200 Physics IIB.....	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 consultation with the Program Coordinator from:

COMP SCI 2000 Computer Systems 3

COMP SCI 2005 Systems Programming
in C and C++ 3

PURE MATH 2002 Algebra II 2

PURE MATH 2005 Multivariable Calculus II 2

and other Level II courses in Computer Science,
Applied and Pure Mathematics, and Physics.

3.3.3 Level III

i Passes (not conceded passes) in Level III
courses:

PHYSICS 3000 Computational Physics III 2

PHYSICS 3004 Quantum Mechanics IIIA 3

PHYSICS 3006 Advanced Dynamics
& Relativity 3

PHYSICS 3009 Statistical Mechanics III 2

PHYSICS 3022 Quantum Mechanics IIIB 2

ii Additional level III courses to the value of at
least 12 units selected in consultation with the
Program Coordinator from:

APP MTH 3000 Computational Mathematics.. 3

PHYSICS 3001 Electromagnetism
& Optics III 3

and other level III courses in Computer
Science, Physics, and Applied and Pure
Mathematics.

3.3.4 Level IV

An acceptable standard, in accordance with the
Academic Program Rule 5.7 for the Bachelor of
Science for Honours degrees, in

PHYSICS 4000 A/B Honours Physics 24

or

PHYSICS 4001 A/B Honours
Mathematical Physics..... 24

(including some lecture content from COMP SCI
4999 A/B Honours Computer Science)

3.4 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.

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 (Jurisprudence)

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

Note To students commencing this program in 2008

This program is currently under review, and there may be changes to the structure and the courses offered in this program from 2009. While the courses listed at Level I reflect the courses available in 2008, courses listed at higher levels should be considered as indicative only.

Students commencing study in 2008 will be provided with access to the revised Academic Program Rules for this program as part of their enrolment process. The revised Rules will be available from the following web address: www.adelaide.edu.au/calendar

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.
- 3 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 LAW 1001 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.

- 4 **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 LAW 1003 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.
- 5 **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.
- 6 **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.
- 7 **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 (Marine Biology)

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 (Marine 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, which satisfy the following:

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

Note To students commencing this program in 2008

This program is currently under review, and there may be changes to the structure and the courses offered in this program from 2009. While the courses listed at Level I reflect the courses available in 2008, courses listed at higher levels should be considered as indicative only.

Students commencing study in 2008 will be provided with access to the revised Academic Program Rules for this program as part of their enrolment process. The revised Rules will be available from the following web address: www.adelaide.edu.au/calendar

2.3.1 Level I

Passes in Level I courses to the value of 24 units which shall include:

Semester 1

BIOLOGY 1101 Biology I: Molecules, Genes and Cells.....	3
GEOLOGY 1103 Earth Systems	3

together with an additional 6 units of Level I courses chosen from courses offered by the Faculty of Sciences. A maximum of 3 units may be taken from courses offered by the Faculty of Humanities and Social Sciences, Faculty of Engineering, Computer and Mathematical Sciences, and the School of Architecture, Landscape Architecture and Urban Design.

Semester 2

BIOLOGY 1202 Biology 1:Organisms	3
ENV BIOL 1002 Ecological Issues.....	3
STATS 1004 Statistical Practice 1 (Life Sciences)	3

together with an additional Level I course to the value of 3 units chosen from other courses offered by the Faculty of Sciences, Faculty of Humanities and Social Sciences, Faculty of Engineering, Computer and Mathematical Sciences, and the School of Architecture, Landscape Architecture and Urban Design.

2.3.2 Level II

Passes in Level II courses to the value of 24 units as follows:

Semester 1

ENV BIOL 2001 Evolutionary Biology EBII	4
ENV BIOL 2002 Botany II	4

Semester 2

ENV BIOL 2000 Zoology EBII	4
ENV BIOL 2003 Ecology EBII	4

together with an additional 8 units of Level II courses chosen from:

GEST 2009 Introduction to Environmental Impact Assessment.....	4
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or

Level II courses listed under Academic Program Rules 5.6.3 and 5.6.4 for the degree of Bachelor of Science.

2.3.3 Level III

Level III courses which shall include:

- i Passes (not Conceded Passes) in core courses:

Semester 1

ENV BIOL 3006 Research Methods in Environmental Biology	3
ENV BIOL 3121 Concepts in Ecology.....	3
ENV BIOL 3124 Frontiers in Marine Biology...3	

Semester 2

ENV BIOL 3010 Marine Ecology III	3
ENV BIOL 3221 Research Methods in Marine Biology	3

- ii Passes in additional Level III courses to the value of 9 units, chosen from:

GEST 3009 Introduction to Environmental Impact Assessment.....	6
SOIL&WAT 3007WT GIS for Environmental Management *	3

or

Level III courses listed under Academic Program Rules 5.6.5 and 5.6.6 for the degree of Bachelor of Science

** Summer semester*

2.4 The Honours program

Students who successfully complete the Bachelor of Science (Marine Biology) at a standard which is acceptable to the Faculty, will be eligible for admission to the Honour Degree of Bachelor of Science.

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 and Drug Design)

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 candidate shall present passes in courses to the value of 24 units at each of Level I, II and III.

2.3 Academic program

Note To students commencing this program in 2008

This program is currently under review, and there may be changes to the structure and the courses offered in this program from 2009. While the courses listed at Level I reflect the courses available in 2008, courses listed at higher levels should be considered as indicative only.

Students commencing study in 2008 will be provided with access to the revised Academic Program Rules for this program as part of their enrolment process. The revised Rules will be available from the following web address: www.adelaide.edu.au/calendar

2.3.1 Level I

Passes in Level I courses to the value of 24 units, which shall include:

Semester 1

BIOLOGY 1101 Biology I:
Molecules, Genes & Cells..... 3
CHEM 1100 Chemistry IA..... 3

or

CHEM 1101 Foundations of Chemistry IA..... 3

Semester 2

BIOLOGY 1201 Biology I: Human Perspectives.... 3
CHEM 1200 Chemistry IB..... 3

or

CHEM 1201 Foundations of Chemistry IB 3

STATS 1000 Statistical Practice I* 3

or

STATS 1004 Statistical Practice I
(Life Sciences) 3

together with additional level I courses to the value of 9 units selected in accordance with the 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 II courses which shall include:

- (i) passes in core courses:

Semester 1

BIOCHEM 2100 Biochemistry IIA..... 4

CHEM 2106 Chemistry IIA (Mol. Drug Des.).... 4

Semester 2

BIOCHEM 2200 Biochemistry IIB..... 4

CHEM 2206 Chemistry IIB (Mol. Drug Des.).... 4

- (ii) passes in Level II courses to the value of 8 units selected in accordance with Academic Program Rules 5.6.3 and 5.6.4 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 the core courses:

Semester 1

BIOCHEM 3000 Molecular & Structural
Biology III 6

CHEM 3111 Chemistry III..... 6

Semester 2

CHEM 3213 Advanced Synthetic
Methods III 3

CHEM 3214 Medicinal & Biological
Chemistry III..... 3

- (ii) passes in level III courses to the value of 6 units 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.

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)

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 candidate shall present passes in Level I courses to the value of not more than 24 units
- a candidate shall present passes in Level II courses to the value of not less than 20 units
- a candidate shall present passes in Level III courses to the value of not less than 24 units.

2.3 Academic program

Note To students commencing this program in 2008

This program is currently under review, and there may be changes to the structure and the courses offered in this program from 2009. While the courses listed at Level I reflect the courses available in 2008, courses listed at higher levels should be considered as indicative only.

Students commencing study in 2008 will be provided with access to the revised Academic Program Rules for this program as part of their enrolment process. The revised Rules will be available from the following web address:
www.adelaide.edu.au/calendarr

2.3.1 Level I

Passes in Level I courses which shall include:

BIOLOGY 1101 Biology I: Molecules, Genes & Cells.....	3
BIOLOGY 1201 Biology I: Human Perspectives....	3
CHEM 1100 Chemistry IA.....	3
<i>or</i>	
CHEM 1101 Foundations of Chemistry IA.....	3

and

CHEM 1200 Chemistry IB..... 3

or

CHEM 1201 Foundations of 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 24 units selected as follows:

Group 1

i 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 2

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 24 units which shall include:

Group 1

BIOCHEM 3125 Advanced Molecular Biology IIIA (Biochemistry).....6

and

BIOCHEM 3225 Advanced Molecular Biology IIIB (Biochemistry).....6

or

GENETICS 3110 Advanced Molecular Biology IIIA (Genetics)6

and

GENETICS 3210 Advanced Molecular Biology IIIB (Genetics)6

Group 2

- i passes in courses to the value of not less than 12 units chosen from those listed in 5.6.5 Sciences courses, or level III courses offered by the School of Mathematical and Computer Sciences
- ii Group II courses shall be 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 (Nanoscience and Materials)

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 candidate shall present passes in courses to the value of 24 units at each of Level I, II and III.

2.3 Academic program

Note To students commencing this program in 2008

This program is currently under review, and there may be changes to the structure and the courses offered in this program from 2009. While the courses listed at Level I reflect the courses available in 2008, courses listed at higher levels should be considered as indicative only.

Students commencing study in 2008 will be provided with access to the revised Academic Program Rules for this program as part of their enrolment process. The revised Rules will be available from the following web address: www.adelaide.edu.au/calendar

2.3.1 Level I

Passes in Level I courses to the value of 24 units which shall include:

Semester 1

CHEM 1100 Chemistry IA..... 3

or

CHEM 1101 Foundations of Chemistry IA 3

PHYSICS 1100 Physics IA* 3

or

PHYSICS 1101 Physics for the Life & Earth Sciences IA 3

or

PHYSICS 1008 Physics Principles & Applications I 3

Semester 2

CHEM 1200 Chemistry IB..... 3

or

CHEM 1201 Foundations of 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 2107 Chemistry IIA (Nanoscience & Materials)..... 4

Semester 2

CHEM 2210 Chemistry IIB (Nanoscience & Materials)..... 4

CHEM 2209 Analytical Chemistry II (Nanoscience & Materials)..... 4

- (ii) passes in Level II courses to the value of 12 units selected in accordance with Academic Program Rules in 5.6.3 and 5.6.4 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 3111 Chemistry III..... 6

CHEM 3211 Heterocyclic Chemistry & Molecular Devices III..... 3

CHEM 3212 Materials Chemistry III..... 3

CHEM 3213 Advanced Synthetic Methods III... 3

CHEM 3214 Medicinal & Biological Chemistry III..... 3

- (ii) passes in Level III courses to the value of 6 units selected in accordance with Academic Program Rules in 5.6.5 and 5.6.6 for the degree of Bachelor of Science, 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 course 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 (Natural Resources)

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 (Natural Resources).

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 candidate shall present passes in courses to the value of 24 units at each of Level I, II and III

2.3 Academic Program

Note To students commencing this program in 2008

This program is currently under review, and there may be changes to the structure and the courses offered in this program from 2009. While the courses listed at Level I reflect the courses available in 2008, courses listed at higher levels should be considered as indicative only.

Students commencing study in 2008 will be provided with access to the revised Academic Program Rules for this program as part of their enrolment process. The revised Rules will be available from the following web address: www.adelaide.edu.au/calendar

2.3.1 Level I

Passes in Level 1 courses as follows:

Semester 1

BIOLOGY 1101 Biology I: Molecules, Genes and Cells..... 3
GEOLOGY 1103 Earth Systems 3

together with an additional 6 units of Level I courses chosen from the following electives:

CHEM 1100 Chemistry IA..... 3

or

CHEM 1101 Foundations of Chemistry IA 3

or

other courses offered by the Faculty of Sciences, 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.

Level I Chemistry is a necessary course if students intend to take any Level II Chemistry course.

Semester 2

BIOLOGY 1202 Biology I: Organisms 3

ENV BIOL 1002 Ecological Issues..... 3

GEOLOGY 1100 Earth's Interior 3

STATS 1004 Statistical Practice I (Life Sciences)..... 3

Note: Level I Chemistry is a necessary course if students intend to take any Level II Chemistry course.

STATS 1000 Statistical Practice I may be taken in semester 1 instead of STATS 1004 Statistical Practice I (Life Sciences) in semester 2.

2.3.2 Level II

Passes in Level 2 courses as follows:

Semester 1

SOIL&WAT 2012WT Soil & Water Resources 4

GEOLOGY 2007 Sedimentary & Structural Geology II 4

and one elective to the value of 4 units, chosen from the following recommended courses:

ENV BIOL 2006 Botany II 4

or

other courses offered by the Faculty of Sciences.

Semester 2

ENV BIOL 2003 Ecology EBII 4

SOIL&WAT 2011 Spatial Information and Land Evaluation 4

and one elective to the value of 4 units, chosen from the following recommended courses:

ENV BIOL 2000 Zoology EB II 4

ENV 2009 Introduction to Environmental Impact Assessment..... 4

GEOLOGY 2008 Landscape Processes & Environments II..... 4

GEOLOGY 2011 Environmental and Regional Planning 4

or

other courses offered by the Faculty of Sciences.

2.3.3 Level III

Passes in Level 3 courses as follows:

AGRONOMY 3020 Principles and Practice of Communications	3
ENV BIOL 3220 Issues in Sustainable Environments.....	3
SOIL&WAT 3007WT GIS For Environmental Management	3

or

SOIL&WAT 3014WT GIS for Agricultural Sciences 3
plus 12 units chosen from 2 of the following
thematic groupings (6 units each):

Land & Water Management:

AGRONOMY 3000RW Agroforestry.....	3
AGRONOMY 3026RW Ecology & Management of Rangelands.....	3
ENV BIOL 3012WT Integrated Catchment Management III.....	3
SOIL&WAT 3002WT Soil Management & Conservation.....	3
SOIL&WAT 3004WT Environmental Toxicology & Remediation.....	3
SOIL&WAT 3010 Remote Sensing.....	3
SOIL&WAT 3016WT Soil Ecology & Nutrient Cycling	3

Conservation & Wildlife Ecology

APP ECOL 3022AEX/BEX Integrated Weed Management	3
ENV BIOL 3004 Freshwater Ecology III.....	3
ENV BIOL 3006 Research Methods in Environmental Biology III.....	3
ENV BIOL 3008 Conservation and Restoration....	3
ENV BIOL 3010 Marine Ecology III	3
ENV BIOL 3121 Concepts in Ecology	3

Environmental Geoscience:

GEOLOGY 3014 Environmental Geoscience Applications III	3
GEOLOGY 3015 Environmental Geoscience Processes III.....	3
SOIL&WAT 3002WT Soil Management & Conservation.....	3
SOIL&WAT 3010 Remote Sensing.....	3

plus 3 units, which may be taken from Level III
courses offered by the Faculty of Sciences.

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 (Optics and Photonics)

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 III courses to the value of not less than 24 units.

2.3 Academic program

Note To students commencing this program in 2008

This program is currently under review, and there may be changes to the structure and the courses offered in this program from 2009. While the courses listed at Level I reflect the courses available in 2008, courses listed at higher levels should be considered as indicative only.

Students commencing study in 2008 will be provided with access to the revised Academic Program Rules for this program as part of their enrolment process. The revised Rules will be available from the following web address: www.adelaide.edu.au/calendar

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 consultation with the program coordinator and 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 which shall include:

- (i) APP MTH 2000 Differential Equations & Fourier Series..... 2
- APP MTH 2002 Vector Analysis & Complex Analysis..... 2
- PHYSICS 2009 Photonics II..... 2
- PHYSICS 2100 Physics IIA 4
- PHYSICS 2200 Physics IIB 4
- (ii) at least 4 units from the following:
 - APP MTH 2003 Modelling with Differential Equations II..... 2
 - COMP SCI 2003 Numerical Methods 3
 - ELEC ENG 2007 Signals and Systems..... 3
 - ELEC ENG 2008 Electronics II..... 3
 - ELEC ENG 2010 A/B Practical Electronic Design..... 3
 - PHYSICS 2001 Classical Mechanics II 2
 - PURE MTH 2002 Algebra II..... 2
 - STATS 2002 Introduction to Mathematical Statistics II 2
 - STATS 2004 Laplace Transforms and Probability and Statistical Methods 2
- (iii) additional Level II courses selected in accordance with Academic Program Rule 5.3 for the degree of Bachelor of Science, chosen in consultation with the Program Coordinator.

2.3.3 Level III

- (i) Passes (not Conceded Passes) in:
 - PHYSICS 3001 Electromagnetism & Optics III 3
 - PHYSICS 3002 Experimental Physics III 3
 - PHYSICS 3004 Quantum Mechanics IIIA..... 3
 - PHYSICS 3230 Photonics IIIP..... 3

- (ii) Pass in:
 - PHYSICS 3022 Quantum Mechanics IIIB.....2
- (iii) Passes in at least 6 units from the following:
 - APP MTH 3013 Differential Equations3
 - APP MTH 3016 Telecommunications Systems Modelling III.....3
 - APP MTH 3017 Waves3
 - COMP SCI 3002 Programming Techniques3
 - ELEC ENG 3015 Communications, Signals and Systems..... 3
 - ELEC ENG 3016 Control III3
 - ELEC ENG 3019 A/B Practical Electrical and Electronic Design III3
 - MECH ENG 3028 Dynamics and Control II.....3
 - PHYSICS 3000 Computational Physics III2
 - PHYSICS 3009 Statistical Mechanics III.....2
 - STATS 3005 Time Series III.....3
- (iv) Passes in additional Level III courses, if required, selected in consultation with the program coordinator and in accordance with Academic Program Rule 5.6 for 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 (Petroleum Geoscience)

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 (Petroleum Geoscience)

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 no more than 30 units at Level I
- (b) a candidate shall present passes in courses to the value of no more than 18 units at Level II
- (c) a candidate shall present passes in courses to the value of 24 units at Level III.

2.3 Academic program

Note To students commencing this program in 2008

This program is currently under review, and there may be changes to the structure and the courses offered in this program from 2009. While the courses listed at Level I reflect the courses available in 2008, courses listed at higher levels should be considered as indicative only.

Students commencing study in 2008 will be provided with access to the revised Academic Program Rules for this program as part of their enrolment process. The revised Rules will be available from the following web address: www.adelaide.edu.au/calendar

2.3.1 Level I

Passes to the value of 24 units, which shall include:

Semester I

GEOLOGY 1103 Earth Systems	3
MATHS 1011 Mathematics IA	3
<i>or</i>	
MATHS 1013 Mathematics IMA.....	3

together with additional Level I courses to the value of 6 units selected in accordance with Academic Program Rules 5.3 and 5.6 for the degree of Bachelor of Science, which must include at least one of the following:

CHEM 1100 Chemistry IA.....	3
CHEM 1101 Foundations of Chemistry IA	3
PHYSICS 1008 Physics Principles & Applications .	3
PHYSICS 1100 Physics IA.....	3
PHYSICS 1101 Physics for the Life & Earth Sciences IA	3

Semester 2

GEOLOGY 1100 Earth's Interior	3
MATHS 1011 Mathematics IA	3

or

MATHS 1012 Mathematics IB	3
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Together with additional Level I courses to the value of 6 units, selected in accordance with Academic Program Rules 5.3 and 5.6 for the degree of Bachelor of Science, which must include at least one of the following:

CHEM 1102 Foundations of Chemistry IB	3
CHEM 1200 Chemistry IB.....	3
PHYSICS 1102 Physics for the Life & Earth Sciences IB	3
PHYSICS 1200 Physics IB.....	3

2.3.2 Level II

Passes in the following courses:

Semester I

GEOLOGY 2007 Sedimentary & Structural Geology II.....	4
PETROENG 1000 Introduction to the Petroleum Industry & Petroleum Geoscience	3
PETROENG 2010 Drilling Engineering	3

Semester 2

GEOLOGY 2006 Igneous & Metamorphic Geology II.....	4
GEOLOGY 2008 Landscape Processes and Environments II.....	4
PETROENG 2009 Formation Evolution, Petrophysics & Rock Properties.....	3
together with passes in additional courses to the value of at least 3 units, chosen from:	
APP MTH 2000 Differential Equations & Fourier Series.....	2

APP MTH 2002 Vector Analysis & Complex Analysis	2
APP MTH 2003 Modelling with Differential Equations	2
APP MTH 2008 Operations Research	2
CHEM 2003 Environmental Chemistry.....	4
CHEM 2100 Chemistry IIA.....	4
MATHS 2004 Mathematics IIM	4
PETROENG 1006 Introduction to Petroleum Engineering.....	3
PHYSICS 2100 Physics IIA.....	4

2.3.3 Level III

Passes (not Conceded Passes) in core courses:

Semester I

GEOLOGY 3013 Tectonics III.....	3
GEOLOGY 3017 Petroleum Exploration III	3
GEOLOGY 3020 Reservoir Geoscience Project	3
PETROENG 3005 Reservoir Characterisation & Modelling.....	3

Semester 2

GEOLOGY 3019 Field Geoscience Program III	3
SOIL&WAT 3010 Remote Sensing.....	3
together with additional Level III courses to the value of 6 units, chosen from:	
GEOLOGY 3008 Geophysics III	3
GEOLOGY 3014 Environmental Geoscience Applications III	3
GEOLOGY 3018 Mineral Exploration III.....	3
PETROENG 3019 Structural Geology & Seismic Methods.....	3

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)

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 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 not less than 24 units.

2.3 Academic program

Note To students commencing this program in 2008

This program is currently under review, and there may be changes to the structure and the courses offered in this program from 2009. While the courses listed at Level I reflect the courses available in 2008, courses listed at higher levels should be considered as indicative only.

Students commencing study in 2008 will be provided with access to the revised Academic Program Rules for this program as part of their enrolment process. The revised Rules will be available from the following web address: www.adelaide.edu.au/calendar

2.3.1 Level I

Passes in Level I courses 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 selected in consultation with the Program Coordinator and in accordance with the Academic Program Rules 5.3, 5.6.1 and 5.6.2 for the degree of Bachelor of Science.

2.3.2 Level II

Passes in Level II courses 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

Semester 2

PHYSICS 2200 Physics IIB.....	4
PHYSICS 2010 Space Science and Astrophysics II.....	4

(ii) additional level II courses, selected in consultation with the Program Coordinator and in accordance with the Academic Program Rules 5.6.3 and 5.6.4 for the degree of Bachelor of Science.

The following courses are highly recommended:

PHYSICS 2001 Classical Mechanics II.....	2
PHYSICS 2002 Classical Fields and Mathematical Methods II.....	2

2.3.3 Level III

(i) Passes (not Conceded Passes) in:

PHYSICS 3002 Experimental Physics III.....	3
and at least two of:	
PHYSICS 3001 Electromagnetism and Optics III.....	3
PHYSICS 3004 Quantum Mechanics IIIA.....	3
PHYSICS 3009 Statistical Mechanics III.....	2

(ii) Passes in:

PHYSICS 3013 Astrophysics III.....	2
PHYSICS 3014 Atmospheric & Environmental Physics III.....	2

(iii) Passes in additional Level III courses selected in consultation with the Program Coordinator and in accordance with the Academic Program Rules 5.6 and 5.6.6 for 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 (Viticulture)

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 desires 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

Note To students commencing this program in 2008

This program is currently under review, and there may be changes to the structure and the courses offered in this program from 2009. While the courses listed at Level I reflect the courses available in 2008, courses listed at higher levels should be considered as indicative only.

Students commencing study in 2008 will be provided with access to the revised Academic Program Rules for this program as part of their enrolment process. The revised Rules will be available from the following web address: www.adelaide.edu.au/calendar

2.4.1 Level I

Passes in Level I courses which shall include:

Semester 1

BIOLOGY 1101 Biology I: Molecules, Genes and Cells..... 3

CHEM 1100 Chemistry IA..... 3
or

CHEM 1101 Foundations of Chemistry IA 3

OENOLOGY 1018NW Foundations in Wine Science..... 3

PHYSICS 1008 Physics Principles and Applications I..... 3

Semester 2

BIOLOGY 1202 Biology I: Organisms 3

CHEM 1200 Chemistry IB..... 3
or

CHEM 1201 Foundations of Chemistry IB 3

GEOLOGY 1200 Earth's Environment 3

STATS 1004 Statistical Practice I (Life Sciences) 3

2.4.2 Level II

Passes in Level II courses which shall include:

Semester 1

BIOCHEM 2106WT Biochemistry II (Agriculture) A..... 4

OENOLOGY 2025WT Microbiology for Viticulture and Oenology 4

VITICULT 2002WT 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 courses which shall include:

AGRONOMY 3130WT Viticultural Engineering and Irrigation..... 3

PLANT SC 3131WT Integrated Pest Management A..... 3

SOIL&WAT 2012RW Soil and Water Resources... 4

Semester 2

AGRIBUS 3017WT Business Management for Applied Science 3

VITICULT 3021WT Viticultural Production 3

VITICULT 3043WT Industry Experience (Viticulture) A 3

VITICULT 3044WT Viticultural Methods & Procedures..... 3

and one elective to the value of at least 2 units, chosen from the following recommended courses:

ENV BIOL 3009 Ecophysiology of Plants III.....	3
FREN 3103WT Technical French (Oenology)	3
HORTICUL 3004WT Olive Production & Marketing (a)	3
OENOLOGY 3016WT Cellar & Winery Waste Management	3
OENOLOGY 3047WT Winemaking at Vintage	3
OENOLOGY 3307WT Stabilisation & Clarification ..	3
PLANT SC 3002WT Biotechnology in the Food and Wine Industries.....	2
PLANT SC 3004WT Mineral Nutrition of Plants....	3
PLANT SC 3030AEX/BEX Integrated Weed Management	3
PLANT SC 3130WT Plant Pathology	3
SOIL&WAT 3002WT Soil Management & Conservation.....	3
SOIL&WAT 3012WT Soil Water Management	3
SOIL&WAT 3014WT GIS for Agricultural Science (b).....	3
SOIL&WAT 3016WT Soil Ecology & Nutrient Cycling	3
VITICULT 3005WT Grape Industry Practice, Policy and Communication	2
VITICULT 3020WT Table & Drying Grape Production	2

or from other courses offered by the Faculty of Sciences, with the approval of the B.Sc.(Viticult.) Program Coordinator.

(a) July (b) Sept.

2.5 The Honours program

Refer to Academic Program rule 5.7 for the degree of Bachelor of Science.

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.

Students who commenced their program of study prior to 2003 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.

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, and that for the Honours degree over one additional year 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. However, a candidate may only present courses for which a Conceded Pass 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, 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 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 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 course.

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

Note To students commencing this program in 2008

This program is currently under review, and there may be changes to the structure and the courses offered in this program from 2009. While the courses listed at Level I reflect the courses available in 2008, courses listed at higher levels should be considered as indicative only.

Students commencing study in 2008 will be provided with access to the revised Academic Program Rules for this program as part of their enrolment process. The revised Rules will be available from the following web address: www.adelaide.edu.au/calendar

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

AGRIBUS 2016EX Introduction to Business Management 4

or

WINEMKTG 2037WT Applied Management Science 4

OENOLOGY 20004NW Vineyard and Winery Operations II 4

Semester 2

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/3006EX Global Wine Market 4

Semester 2

WINEMKTG 3028WT/3028EX Winery Business Management III..... 4

Electives

Candidates must complete electives to a minimum value of 24 units at least 12 units of which must be at level III and at least 16 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 II 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 4

WINEMKTG 3040WT/3040EX Wine Retail and Distribution Management 4

WINEMKTG 3047WT/3047EX Internet Marketing and E-Commerce..... 4

WINEMKTG 3049WT/EX Wine & Food Tourism & Festivals	4
WINEMKTG 3065WT/3065EX 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, the candidate will proceed to the Honours degree in the following course:
- | | |
|---|----|
| WINEMKTG 4007AWT/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, Food 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, or 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 Arts and Bachelor of Science

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 part-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

Note To students commencing this program in 2008

This program is currently under review, and there may be changes to the structure and the courses offered in this program from 2009. While the courses listed at Level I reflect the courses available in 2008, courses listed at higher levels should be considered as indicative only.

Students commencing study in 2008 will be provided with access to the revised Academic Program Rules for this program as part of their enrolment process. The revised Rules will be available from the following web address:
www.adelaide.edu.au/calendar

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.



Syllabuses

Contents

Aboriginal Studies in Music.....	344	International Business.....	501
Accounting.....	348	International Studies.....	502
Agricultural Business.....	349	Japanese.....	502
Agriculture.....	351	Latin.....	505
Agronomy.....	351	Law.....	506
Anatomical Science.....	354	Linguistics.....	523
Ancient Greek.....	381	Management.....	526
Animal Science.....	357	Marketing.....	528
Anthropology.....	360	Mathematics.....	529
Arts.....	366	Media.....	540
Asian Studies.....	366	Medicinal Studies.....	545
Biochemistry.....	370	Microbiology.....	550
Biotechnology.....	373	Music.....	553
Chemistry.....	373	Music (VET).....	625
Chinese.....	378	Nursing Science.....	576
Classical Studies & Ancient Greek.....	381	Obstetrics & Gynaecology.....	579
Commerce.....	387	Oenology.....	579
Commercial Law.....	387	Oral Health.....	582
Computer Science.....	388	Pathology.....	584
Corporate Finance.....	393	Pharmacology.....	585
Dentistry.....	394	Philosophy.....	586
Design Studies.....	400	Physics.....	591
Development Studies.....	407	Physiology.....	598
Economics.....	407	Plant Science.....	601
Education.....	414	Politics.....	604
Engineering.....	419	Psychiatry.....	610
English.....	456	Psychology.....	611
Environmental Biology.....	462	Public Health.....	614
European Studies.....	467	Soil & Water.....	617
Food Science & Technology.....	468	Spanish.....	621
French Studies.....	471	Statistics.....	621
Gender, Work & Social Inquiry.....	473	VET Music.....	625
General Practice.....	476	Viticulture.....	631
Genetics.....	477	Wine Marketing.....	633
Geographical & Environmental Studies.....	480	Index of Academic Programs.....	638
Geology.....	485	Index of Courses.....	639
German Studies.....	490		
History.....	494		
Horticulture.....	499		
Indonesian.....	500		
Information Systems.....	500		

Aboriginal Studies in Music

LEVEL I

MUSIC 1001A/B Style Studies I CM

2 units - full year

1.5 hour lecture per week

Restriction: Aboriginal and Torres Strait Islander students only

Assessment: continuous 60%, major assignments 40%

Historical, theoretical and practical study of the following musical styles: African-American music (blues, soul, reggae etc), folk, country, rock; inma studies.

MUSIC 1002A/B Practical Music Study I CM

4 units - full year

1 hour individual lesson per week

Restriction: 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.

Restriction: Aboriginal and Torres Strait Islander students only

Assessment: attendance, participation 10%, assignments 60%, semester exams 20%, 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, and a field studies visit to the Anangu Pitjantjatjara Lands.

MUSIC 1009A/B Practical Music Study I MS

4 units - full year

1 hour individual lesson per week

Restriction: 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

3 x 1 hour lectures or equivalent per week

Restriction: Aboriginal and Torres Strait Islander students only

Assessment: continuous assessment 60%, semester exams 40%

Consolidation and extension of the basic 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

Restriction: Aboriginal and Torres Strait Islander students only

Assessment: attendance participation 10%, assignments 32.5%, Field Studies Workbook 10%, research journal 10%, class report 12.5%, research proposal 25%

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 also 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 Kurna events and places.

MUSIC 1013A/B Performance I MS

4 units - full year

2 x 2 hour rehearsals per week

Restriction: 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 music literacy as appropriate.

MUSIC 1014A/B **Performance I CM**

4 units - full year

2 x 2 hour rehearsals per week

Restriction: 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 music literacy as appropriate.

MUSIC 1015A/B **General Studies (New) I**

2 units - full year

Contact hours vary according to the topic/s chosen

Restriction: 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

Restriction: 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

Restriction: 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

Restriction: Aboriginal and Torres Strait Islander students only

Assessment: continuous 60%, semester exams 40%

Consolidation and extension of the basic 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

Restriction: Aboriginal and Torres Strait Islander students only

Assessment: continuous 60%, major assignments 40%

Historical, theoretical and practical study of the following musical styles: African-American music (blues, soul, reggae etc), folk, country, rock; inma studies.

MUSIC 1024A/B **Aural Development (New) I**

1 units - full year

1 hour lecture per week

Restriction: Aboriginal and Torres Strait Islander students only

Assessment: attendance, participation 20%, continuous 40%, semester 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

Restriction: Aboriginal and Torres Strait Islander students only

Prerequisite: MUSIC 1020 A/B or MUSIC 1010 A/B 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

Restriction: Aboriginal and Torres Strait Islander students only

Prerequisite: MUSIC 1001 A/B or MUSIC 1021 A/B, and MUSIC 1020 A/B or MUSIC 1010 A/B

Assessment: Topic I - attendance and participation 30%, major assignment 20%; Topic II attendance and participation 15%, assignments 20%, concert report 15%

Topic I - historical, theoretical and practical study of the stylistic characteristics of Jazz; inma studies.

Topic II - a survey of the main stylistic characteristics of Western 'art' music in historical and cultural context, including particular reference to contemporary Australian music; inma studies.

MUSIC 2002A/B **Style Studies II MS**

2 units - full year

1.5 hour lecture per week

Restriction: Aboriginal and Torres Strait Islander students only

Prerequisite: MUSIC 1021 A/B, or Distinction in MUSIC 1001 A/B & MUSIC 1010 A/B or MUSIC 1020 A/B

Assessment: Topic I attendance and participation 30%, major assignment 20%; Topic II attendance and participation 15%, assignments 20%, concert report 15%

Topic I - historical, theoretical and practical study of the stylistic characteristics of Jazz; inma studies.

Topic II - a survey of the main stylistic characteristics of Western 'art' music in historical and cultural context, including particular reference to contemporary Australian music; inma studies.

MUSIC 2003A/B **Theory of Music II MS**

4 units - full year

3 x 1 hour lectures or equivalent per week

Restriction: Aboriginal and Torres Strait Islander students only

Prerequisite: MUSIC 1010 A/B or, in exceptional circumstance, Distinction [or higher] in MUSIC 1020 A/B

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

Restriction: Aboriginal and Torres Strait Islander students only

Prerequisite: MUSIC 1013 A/B or, in exceptional circumstances, a Distinction (or higher) in MUSIC 1014 A/B

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 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 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 music literacy as appropriate

MUSIC 2005A/B **Practical Extension II**

2 units - full year

1 hour lecture or equivalent per week

Restriction: Aboriginal and Torres Strait Islander students only

Prerequisite: MUSIC 1018 A/B

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

Restriction: Aboriginal and Torres Strait Islander students only

Prerequisite: MUSIC 1002 A/B or MUSIC 1009 A/B

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 Pt 2**

4 units - full year

2 x 2 hour rehearsals per week

Restriction: Aboriginal and Torres Strait Islander students only

Prerequisite: MUSIC 1014 A/B or MUSIC 1013 A/B

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 music literacy as appropriate.

MUSIC 2011A/B **Aural Development (New) II**

1 units - full year

1 hour lecture per week

Restriction: Aboriginal and Torres Strait Islander students only

Prerequisite: MUSIC 1024 A/B

Assessment: attendance, participation 20%, continuous 40%, semester 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

Restriction: Aboriginal and Torres Strait Islander students only

Prerequisite: MUSIC 1007 A/B

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 Pt 2**

3 units - full year

Contact hours vary according to the topic/s chosen

Restriction: Aboriginal and Torres Strait Islander students only

Prerequisite: MUSIC 1015 A/B

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

Restriction: Aboriginal and Torres Strait Islander students only

Prerequisite: MUSIC 1011 A/B or, in exceptional circumstances, a Distinction (or higher) in MUSIC 1016 A/B

Assessment: attendance, participation 10%, assignments 25%, Field Studies Workbook 10%, research journal 15%, class report 15%, final report 25%

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

Restriction: Aboriginal and Torres Strait Islander students only

Prerequisite: MUSIC 1009 A/B or, in exceptional circumstances, a Distinction (or higher) in MUSIC 1002 A/B

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

Restriction: Aboriginal and Torres Strait Islander students only

Prerequisite: MUSIC 1016 A/B or MUSIC 1011 A/B

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 or 2

2 lectures, 1 tutorial, 6 hours self-directed study per week

Restriction: B Com students only in semester 1

Available for Non-Award Study in semester 2 only

Quota applies for semester 1

Incompatible: not to be counted with 3086

Assessment: written exam 50% - 80%, assignments as determined at preliminary 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 1 or 2

2 lectures, 1 tutorial, 1 workshop, 6 hrs self-directed study per week

Restriction: Eligibility criteria will apply for non - B Com students

Incompatible: not to be counted with 4359

Assessment: exam, assignments as determined at preliminary lecture

Introduction to financial accounting including the principles of double-entry accounting 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 1 or 2

2 lectures, 1 tutorial, 8 hours self-directed study per week

Available for Non-Award Study

Prerequisite: ACCTING 1002

Assessment: exam 50-80%, assignment & tutorial work as agreed in 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 - summer semester or semester 1

2 lectures, 1 workshop, 8 hours self-directed study per week

Available for Non-Award Study

Prerequisite: ACCTING 1005

Assessment: exam, assignments as agreed in first lecture

The aim of this course is to guide students in their acquisition of technical and problem solving skills in the area of corporate external financial reporting. Corporate external financial reporting comprises financial reporting by reporting entities to external stakeholders. It is mandatory for reporting entities to report in accordance with Australian accounting standards. Students in this course will gain skills in reading, interpreting and applying accounting standards. This course builds on introductory financial accounting. The course is essential for all individuals exposed to financial information in the workplace including accountants, auditors, financial analysts, managers, bankers and oversight bodies involved in the preparation or use of company financial statements. It would also be useful for those not wishing to become accountants but who plan to specialise in areas where accounting knowledge would be an advantage such as bankers and finance professionals, journalists, lawyers, and those interested in management positions including engineers and scientists.

LEVEL III

ACCTING 3006 **Accounting Theory III**

4 units - semester 2

2 lectures, 1 tutorial, 8 hours self-directed study per week

Available for Non-Award Study

Assumed Knowledge: ACCTING 2010

Assessment: 3 hour exam, assignments as determined at preliminary lecture

Topics may include accounting history, theory development in accounting, normative accounting theories, positive accounting theory, standard setting in a theoretical and political framework, ethics in accounting, behavioural accounting, and social and environmental accounting issues.

ACCTING 3011 **Corporate Accounting III**

4 units - semester 1

2 lectures, 2 hour workshop, 8 hours self-directed study per week

Available for Non-Award Study

Prerequisite: ACCTING 1005

Assumed Knowledge: CORPFIN 2006, ECOMMRCE 1000 and ACCTING 2010 - or similar syllabus content

Assessment: 3 hour exam, work completed during course, as determined at preliminary lecture

Topics may include issue of shares, debentures, company reconstructions, accounts of liquidators and receivers; amalgamations and takeovers; inter-corporate investments and consolidated accounts; and joint ventures, foreign currency transactions and translation.

ACCTING 3012 **Auditing III**

4 units - semester 2

2 lectures, 1 hour tutorial, 8 hours self-directed study per week

Available for Non-Award Study

Prerequisite: ACCTING 2010

Assumed Knowledge: Level I & II courses in relevant degree

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, case study, exam

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 the farm as a system, 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.

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

The 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**

4 units - semester 1

6 hours lecture/tutorial per week

Assumed Knowledge: AGRIBUS 1009RW

Assessment: exam, assignments

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.

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.

LEVEL III

AGRIBUS 3010WT **International Agri-Business Environment**

3 units - semester 2

3 hours lectures/seminars per week

Assessment: to be advised

The 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

Assessment: case studies, tutorial exercises, exam

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**

3 units - semester 1 or 2

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 3017WT **Business Management for Applied Sciences**

3 units - semester 2

5 lectures/student centred learning per week

Assessment: assignments, tutorial exercises, business plan, exam

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 3044RW **Individual Study Rural Enterprise Management**

3 units - semester 2

Assessment: written report, seminar

A guided study program approved by the Course Adviser in an area applicable to the student and on a defined situation or problem.

Agriculture

LEVEL I

AGRIC 1000RW **Perspectives on Modern Agriculture**

3 units - semester 1

Average 6 hrs per week including lectures, tutorials, &/or practicals

Incompatible: PLANT SC 1000/1000RW, AGRONOMY 1010RW

Assessment: assignments, written exam

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 influences.

HONOURS

AGRIC 4001ARW/BRW **Honours Agricultural Science**

24 units - full year

This course comprises a substantial research project of the student's choosing on a topic acceptable to the Head of School of Agriculture, Food and Wine, two seminars on that topic, and coursework, essays or other assignments deemed appropriate to the individual student's honours program.

AGRIC 4001AWT/BWT **Honours Agricultural Science**

24 units - full year

40 hours per week

Prerequisite: credit or higher in two relevant Level III courses as approved by Head of Discipline

Assessment: thesis, seminars, remainder as deemed appropriate to the student's program

This course comprises a substantial research project of the student's choosing on a topic acceptable to the Head of School of Agriculture, Food and Wine, two seminars on that topic, and coursework, essays or other assignments deemed appropriate to the individual student's honours program.

AGRIC 4003ARW/BRW **Honours in Agricultural Science**

24 units - full year

This course comprises a substantial research project of the student's choosing on a topic acceptable to the Head of School of Agriculture, Food and Wine, two seminars on the topic, and coursework, essays or other assignments deemed appropriate to the individual student's honours program.

AGRIC 4003AWT/BWT **Honours in Agricultural Science**

24 units - full year

20 hours per week for 40 weeks over 2 yr period

Prerequisite: credit or higher in at least two relevant Level III courses as approved by the Head of Discipline

Assessment: thesis, seminar, remainder as deemed appropriate to the student's program

This course comprises a substantial research project of the student's choosing on a topic acceptable to the Head of School of Agriculture, Food and Wine, two seminars on the topic, and coursework, essays or other assignments deemed appropriate to the individual student's honours program

Agronomy

LEVEL I

AGRONOMY 1006ARW/BRW **Agricultural Experience I Part 1**

3 units - full year

40 days practical agricultural experience, 5 days agricultural business experience, 12 x 3 hour demonstrations

Assessment: assignments, practical experience, theory exam

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.

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, practical experience

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 2013RW **Production Agronomy**

4 units - semester 2

Average 7 hours per week including lectures, tutorials, &/or practicals

Assumed Knowledge: AGRIC 1000RW

This course delivers practical understanding of selection, establishment, management and utilisation 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 fertilisers; irrigated agriculture.

AGRONOMY 2120RW **Introduction to Engineering in Agriculture**

2 units - semester 1

Average 4 hours per week including lectures, tutorials, &/or practicals

Assumed Knowledge: SACE Stage 2 Mathematics 1

Incompatible: CHEM ENG 1001, PHYSICS 1008

Assessment: practicals, assignments, project, exam

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

AGRONOMY 3000RW **Agroforestry**

3 units - semester 2

Average 6 hours per week including lectures, tutorials, &/or practicals

Assessment: written exam, planning assignment, practical

Topics include: Agroforestry for functional mimicry of natural ecosystems; Land use 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: AGRIC 1000RW

Assessment: assignments, 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 3008RW **Individual Studies (Ag)**

3 units - semester 1 or 2

Formal contact between student & supervisor during project by mutual agreement

Assumed Knowledge: AGRONOMY 1006ARW/BRW, AGRONOMY 2008RW

Assessment: contract/project

Either an individual project/case study of significant size which exhibits original investigation, analysis and interpretation, and results in the production of a well-written, well-presented report. The project may comprise a major literature review, 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

Average 6 hours per week including lectures, tutorials, &/or practicals

Assumed Knowledge: AGRONOMY 2013RW or PLANT SC 2001WT or ENV BIOL 2006

Assessment: exam, essays/practical report

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 3016RW

Crop and Pasture Ecology

3 units - semester 2

Average 6 hours per week including lectures, tutorials, &/or practicals

Assumed Knowledge: PLANT SCI 2001WT or ENV BIOL 2006 or AGRONOMY 2013RW

Assessment: exam, assignments

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

Average 6 hours per week including lectures, tutorials, &/or practicals

Assessment: exam, assignments, practical exercises

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 3026RW

Ecology and Management of Rangelands

3 units - semester 2

Part semester, winter vacation - includes 9 day field camp

Assumed Knowledge: 3 units of Ecology at Level II

Assessment: project reports, theory exam

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.

AGRONOMY 3130WT

Viticultural Engineering and Irrigation

3 units - semester 1

Average 6 hours per week including lectures, tutorials, practicals &/or field work

Assumed Knowledge: CHEM ENG 1001, PHYSICS 1008, SOIL&WAT 2013RW/AGRONOMY 2120RW or equiv

Incompatible: AGRONOMY 3005WT

Assessment: may include practical reports, assignments, trip reports, individual projects, exam

Students will be introduced to the concepts and techniques used in the engineering aspects of trellis design, tractor operation and maintenance,

HONOURS

AGRONOMY 4001ARW/BRW **Honours Agronomy & Farming Systems**

24 units - full year

Prerequisite: Credit or higher in at least 2 Level III courses approved by Head of Discipline

Assessment: research thesis, associated seminars - remainder as deemed appropriate to student's program

This course comprises a substantial research project chosen by the student on a topic suitable to the Discipline. The results of the project will be presented in a written thesis and the presentation of a seminar. In addition, coursework, essays or other assignments deemed appropriate will be completed by the student after consultation with the Honours coordinator and approved by the Head of Discipline.

Intending students should consult the Head of Discipline and potential academic supervisors during the final year of their degree.

AGRONOMY 4005ARW/BRW **Honours in Agronomy & Farming Systems)**

24 units - full year

20 hours per week for 40 weeks over a 2 year period

Prerequisite: Credit or higher in at least two relevant Level III courses as approved by the Head of Discipline

Assessment: thesis, seminar, remainder as deemed appropriate to the student's program

This course comprises a substantial research project of the student's choosing on a topic acceptable to the Head of School of Agriculture, Food and Wine, two seminars on that topic, and coursework, essays or other assignments deemed appropriate to the individual student's honours program.

Anatomical Science

LEVEL I

ANAT SC 1102 **Human Biology IA**

3 units - semester 1

3 lectures, 3 hours tutorial/laboratory work per week

Restriction: B.Hlth.Sc. & B.Psych (Hons) students only or by permission of course coordinator

Available for Non-Award Study

Assessment: literature & laboratory based RSD - task, tutorial participation, 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. It also introduces infectious agents and their implications for human health

ANAT SC 1103 **Human Biology IB**

3 units - semester 2

3 lectures, 3 hours tutorial/laboratory work per week

Restriction: B.Hlth.Sc., B. Psych.(Hons) students only or by permission of course coordinator

Available for Non-Award Study

Assumed Knowledge: Human Biology IA

Assessment: laboratory & tutorial activities, scientific report, poster and power point 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, defence systems against disease, 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

Restriction: B.Hlth.Sc. & B.Psych. (Hons) students only

Assumed Knowledge: ANAT SC 1102A/B or equiv

Assessment: final written & practical exams 60%, mid-semester test, tutorial papers, seminars, slide description 40% - details provided at commencement of course

The histology component of the 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, 2 hours practicals per week

Restriction: B.Hlth.Sc., B. Psych. (Hons) students only or permission of course coordinator

Assumed Knowledge: ANAT SC 1102A/B or equiv

Incompatible: 6498

Assessment: written & practical exams, dissection project, continuous assessment

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 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 spoken presentation.

The content will include detailed information 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

Assumed Knowledge: BIOLOGY 1101/1102 or BIOLOGY 1201/1202

Incompatible: 7996

Assessment: final written & practical exams 60%, mid-semester test, seminars, 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, up to 6 hours of practical per week

Assumed Knowledge: BIOLOGY 1202 or equiv

Incompatible: ANAT SC 2008

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 body 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 I courses to 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 **Anthropological and Forensic Anatomy III**

3 units - semester 2

Restriction: BHlthSc; BSc or permission of course coordinator of Head of Discipline

Assumed Knowledge: ANAT SC 2105, ANAT SC 2103 or equiv. approved by course coordinator or Head of Discipline

Incompatible: ANAT SC 3101

Assessment: 2 hour written exam 55%, research project: written component 40%, oral component 5%

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

Assumed Knowledge: ANAT SC 2102 or ANAT SC 2104 or ANAT SC 2103 or ANAT SC 2105, or equiv

Assessment: mid semester test 10%, written exam 70%, 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 and molecular 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

Assumed Knowledge: ANAT SC 2102 or ANAT SC 2104 or ANAT 2103 or ANAT SC 2105 or equiv

Incompatible: Head & Neck and Neuroanatomy, Neuroanatomy & Neuroendocrinology, 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 project.

ANAT SC 3104 Structural Cell Biology

3 units - semester 2

2 lectures, 4 hours tutorial/practical work a week

Assumed Knowledge: ANAT SC 2104 or ANAT SC 2105 or ANAT SC 2103 or ANAT SC 2102 or equiv

Incompatible: 7997

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

Restriction: MBBS level 2 students only

Assessment: dissection 30%, knowledge - 1 hour written paper & oral assessment 70%

This course will involve a study of the functional anatomy of the limbs through dissection and the study of prosected specimens, radiographs and bones. Students will dissect upper and lower limbs. Students will work in groups of 4 and will be expected to do appropriate reading and preparation prior to the beginning of the dissection.

ANAT SC 3106 Ethics, Science and Society III

6 units - semester 1

4 hours lectures, tutorials/PBL sessions per week

Restriction: B.Hlth.Sc. & B.Psych (Hons) students only

Prerequisite: Level II courses to value of 12 units

Incompatible: ANAT SC 2106 (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.

ANAT SC 3108

Applied Anatomy of Cranial Nerves by Dissection

3 units - semester 1

3 hours (1 hour lecture, 2 hours dissection) per week

Restriction: year 3 MBBS students only

Prerequisite: Year 1 & 2 MBBS successful completion

Assessment: monitoring & evaluation of quality of dissection 20%, practical mid-semester test 10% & practical 20%, written exam at end of semester 50%

The course aims to study the structure and function of the cranial nerves by dissection. It involves the study of the deep cranial nerve nuclei, intracerebral course of the nerves, superficial attachments to the brain surface, intracranial course, relations to the dura and foramina of the skull, extracranial course, distribution to structures in the head and neck, function of each nerve, the basis of clinical examination of various nerves and interpretation of deficits. The principal mode of learning is by dissection of the human body supported by a week overview lecture.

HONOURS

ANAT SC 4000A/B

Honours Anatomical Sciences

24 units - full year

Prerequisite: credit standard in appropriate Level III courses in Anatomical Sciences or other comparable biological courses - subject to discipline approval

Assessment: research project - research grant proposal, thesis/journal article, seminar and thesis defence 65%, components not related to the research project - essay & seminar 35%

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

Animal Science

LEVEL I

ANIML SC 1014RW

Fauna Management

3 units - semester 2

Presented online; compulsory animal handling activities in mid-semester break

Incompatible: ANIML SC 2014RW

Assessment: theory exam (online), essays, online discussion group

The course deals with the survey and management of captive and wild populations of vertebrate animals. Topics covered include: the reasons for management; conflicts between humans and wildlife; the philosophical rationale for maintaining captive collections; development of ecologically based management strategies for the purpose of conservation; management of endangered species; management of harvested and pest populations; legal and administrative framework; the impact of diseases on wild animal populations. The course is structured as a guided reading course focussing on scientific papers dealing with populations of wild animals.

ANIML SC 1015RW

Perspectives in Animal Science

3 units - semester 1

Average 6 hours per week - lectures, tutorials, practicals &/or field trips.

Restriction: B.Sc.(Animal Sc: Pre-Vet), B.Sc.(Animal Science)

Assessment: exam 50%, tutorials 5%, practical reports 25%, group project 20%

The course will provide students with a basic understanding of production animals and horses and the respective industries in Australia and overseas. A general overview of agricultural production will also be covered. Themes to be studied include agricultural systems; the equine industry; ovine, bovine and equine physical examination; agricultural economics; livestock industries; alternative animal industries; animal production and welfare. There will be tutorials covering library and computer based information retrieval skills and specific animal handling topics. Practical exercises will include instruction on the handling of sheep, cattle, horses, and wildlife.

ANIML SC 1016RW

Principles in Animal Behaviour Welfare Ethics

3 units - semester 2

Average 6 hours per week - lectures, practical & tutorial components.

Restriction: B.Sc.(Animal Sc: Pre-Vet), B.Sc.(Animal Science)

Assessment: exam 70%, written assignment 30%

The course will provide the students with an introduction to the principles of animal ethics, behaviour and welfare. Subject areas which will be covered include introduction to animal welfare; animal welfare issues and current

developments; animal welfare legislation; introduction to animal ethics; the history of animal behaviour; introduction to animal behaviour in the wild and domesticated species. Knowledge gained in the lecture material will be put into practice in the practical exercises.

LEVEL II

ANIML SC 2014RW Wildlife Management

4 units - semester 2

Presented online; compulsory animal handling activities in mid-semester break

Assumed Knowledge: BIOLOGY 1202, APP ECOL 1203RW or BIOLOGY 1203RW

Incompatible: ANIML SC 1014RW

Assessment: theory exam (online), essays, online discussion group, trip report

The course deals with the survey and management of captive and wild populations of vertebrate animals. Topics covered include: the reasons for management; conflicts between humans and wildlife; the philosophical rationale for maintaining captive collections; development of ecologically based management strategies for the purpose of conservation; management of endangered species; management of harvested and pest populations; legal and administrative framework; the impact of diseases on wild animal populations. The course is structured as a guided reading course focussing on scientific papers dealing with populations of wild animals. The course is complemented by a day trip to a wildlife management institution.

ANIML SC 2029WT Genes and Inheritance

4 units - semester 2

Average 7 hours per week including lectures, tutorials, &/or practicals

Prerequisite: full year of Level I Biology or equiv

Assessment: practical reports, presentations, 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 utilisation 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 will be discussed.

ANIML SC 2030RW Livestock Production Science

4 units - semester 2

Average 7 hours per week including lectures, tutorials, &/or practicals

Assumed Knowledge: BIOLOGY 1101/1102, BIOLOGY 1202 or APP ECOL 1004RW/BIOLOGY 1103RW & APP ECOL 1003RW/BIOLOGY 1203RW

Assessment: practical reports, written papers, tests, final exam

Livestock Production Science deals with the application of science to 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 modelling production systems, assessing product quality, assessing live animals, and field trips

ANIML SC 2031RW Companion Animal and Equine Studies

4 units - semester 1

Average 7 hours per week including lectures, tutorials, &/or practicals

Assumed Knowledge: BIOLOGY 1101, BIOLOGY 1202 or APP ECOL 1004RW/BIOLOGY 1103RW & APP ECOL 1003RW/BIOLOGY 1203RW

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 3015RW Animal Nutrition and Metabolism

3 units - semester 2

Average 6 hours per week including lectures, tutorials, &/or practicals

Assumed Knowledge: ANIML SC 2030RW, ANIML SC 3017RW

Incompatible: ANIML SC 3010RW

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

3 units - semester 2

Average 6 hours per week including lectures, tutorials, &/or practicals

Assumed Knowledge: ANIML SC 2030RW, ANIML SC 3017RW

Incompatible: ANIML SC 3010RW, ANIML SC 3016RW

Assessment: exam, essay, practical reports

Basic pathology, immunology, and epidemiology. Common diseases of Australian native animals and farm animals caused by viral, bacterial, fungal and parasitic infections. Non-infectious diseases including metabolic disturbances, trace element deficiencies and genetic diseases.

ANIML SC 3017RW

Comparative Animal Physiology

3 units - semester 1

Average 6 hours per week including lectures, tutorials, &/or practicals

Assumed Knowledge: ANIML SC 2030RW

Incompatible: ANIML SC 2015RW

Assessment: exam, practicals, assignments

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 Production - Science into Management

3 units

Assumed Knowledge: ANIML SC 2030RW

Incompatible: ANIML SC 3001RW

Assessment: to be advised

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

10 contact days during summer vacation + 5 non-contact days which include the exam day

Available for Non-Award Study

Quota will apply

Assumed Knowledge: ENV BIOL 2003 or ENV BIOL 2001

Assessment: exam, written assignments

This course 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

Animal Biotechnology

3 units - summer semester

35 hours x 2 weeks

Assumed Knowledge: BIOLOGY1101/1102, BIOLOGY1202 or APP ECOL 1004RW & APP ECOL 1003RW, ANIML SC 2030RW

Assessment: written assignment, practical report

The application of biotechnology to animals will be examined. Challenges facing the intensive and extensive livestock industries, as well as wildlife management and conservation, will be discussed and debated in the context of biotechnologies that may be applied. Problems specific to horses and companion animals will be also considered. In addition, the use of biotechnology for animal related issues such as food safety, disease control and biosecurity will be addressed.

A range of genetic, immunological and reproductive technologies will be introduced with some practical exposure. The integration of these technologies to improve animal production, health and welfare will be explored. Lastly, biotechnological animal models will be examined for potential application to human and veterinarian medicine.

ANIML SC 3045RW

Animal Breeding and Genetics

3 units - semester 1

Average 6 hours per week including lectures, tutorials, &/or practicals

Assumed Knowledge: ANIML SC 2029WT or APP ECOL 1004RW/ BIOLOGY 1103RW & APP ECOL 1003RW/BIOLOGY 1203RW & ANIML SC 2030RW

Incompatible: PLANT SC 3007WT, PLANT SC 3018WT

Assessment: to be advised

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, maximising 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.

ANIML SC 3046RW **Animal Reproduction and Development**

3 units - semester 1

Average 6 hours per week including lectures, tutorials &/or practicals including a 4 day practical in mid semester break

Assumed Knowledge: BIOLOGY 1101/1102, BIOLOGY 1202 or APP ECOL 1004RW; APP ECOL 1003RW or ANIML SC 2030RW

Incompatible: ANIML SC 3043RW (prior to 2008); ANAT SC 3102

Assessment: exam, written assignment, presentations, practical reports

This course will provide students with an understanding of reproductive and developmental biology in animals. The physiological basis for reproduction in animals, including livestock, companion and wildlife species will be studied. Topics covered will include comparative structure and function of male and female reproductive systems; endocrine, neuroendocrine and environmental control of reproduction; development of the gametes, embryo, foetus and placenta; and pregnancy and parturition. How the understanding of reproductive physiology informs the management of reproduction and fertility in animals and provides the basis for reproductive technologies including artificial insemination and embryo transfer will be considered. The course will include a 4-day practical program during mid-semester break, focussing on the management of reproduction and reproductive technologies in the livestock species.

ANIML SC 3100RW **Laboratory Animal Science**

3 units - semester 1

Average 6 hours per week including lectures, tutorials, &/or practicals

Assumed Knowledge: BIOLOGY 1101/1102.; BIOCHEM 2106WT

Assessment: to be advised

This course aims to instil the major principles of the study of laboratory animals and their utilisation for teaching, research and commercial purposes. This will include developing a scientific understanding of the applications and limitations of various laboratory animal species in addition to practical experience in animal handling and other procedures.

Topics will include animal handling, breeding, feeding, maintenance, minor interceptions and minor surgical procedures. Students will be involved with a research project in which relevant aspects of laboratory animal science will be undertaken. Species studied will include mice, rats, guinea pigs and rabbits. The student will become familiar with processes associated with induction of gastrointestinal diseases and disorders which affect humans, in rats and mice. These disorders could include chemotherapy-induced mucositis, gastric ulceration

and inflammatory bowel disease. Students will also be exposed to the ways in which the animal models can be utilised, for example, in the testing of new treatment modalities.

ANIML SC 3230RW **Animal Behaviour, Welfare and Ethics**

3 units - semester 2

Average 6 hours per week including lectures, tutorials, &/or practicals

Restriction: B.Sc.(Animal Sc.) students only

Assessment: exam, assignments & practical reports

Communication, aggression, learning; their development in animals. Sexual and maternal behaviour. Abnormal behaviours, particularly in captive wild animals. The philosophy of human dominion over animals. Human and humane treatment of animals. Measures of stress and strain. Animal welfare legislation is also covered.

HONOURS

ANIML SC 4004ARW/BRW **Honours Animal Science**

24 units - full year

Prerequisite: Credit or higher in at least 2 Level III courses approved by Head of Discipline

Assessment: research thesis, associated seminars - remainder 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 Agricultural and 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 in early February, or other vacations.

Anthropology

LEVEL I

ANTH 1102 **Introducing Social Anthropology**

3 units - semester 1

3 contact hours per week

Available for Non-Award Study

Assessment: tutorial papers/participation, essays

The exploration of cultural difference has always been central to the discipline of social anthropology. From its modest beginnings in colonial territories in Africa, Asia and Australasia, social anthropology has systematically examined the ways in which the basic organization of kinship, production, ritual and politics can vary enormously, even between societies living proximately to

one another. This course introduces students to the ways in which social anthropologists go about the business of exploring cultural difference. It looks at the techniques we use when doing fieldwork, the ways we extract information from our informants, how we identify our key problems, and how we write the ethnographies which are the hallmark of social anthropology. We do so by looking at some of the most challenging studies produced by social anthropologists - of Balinese cockfights, devil worship in South America, gypsy rituals in Europe, and ethnic conflicts in West Africa - in order to detail the contrasts between cultures, and the differences between the anthropologists studying them. Social anthropology allows us to escape the limits of our everyday existence by showing how even the most basic aspects of society can be organised on markedly different lines to those which we take for granted.

Note: ANTH 1102 & ANTH 1104 serve as a general introduction to theories and methods of social science but can be studied on a stand-alone basis.

ANTH 1104 **Culture & Society: Foundations of Anthropology**

3 units - semester 2

3 contact hours per week

Available for Non-Award Study

Assessment: tutorial papers/participation, essays

This course examines essential aspects of human social life from the cross-cultural perspective that is one of the defining characteristics of anthropology. It also provides an introduction to the historical emergence of anthropology as a distinctive social scientific discipline. The main features of social life that will be covered in this course include primary social relations ('kinship and friendship'), political economy ('ownership and leadership'), religion ('worship'), and cultural creativity ('authorship'). These elementary properties of social life are found in all human societies and we trace the study of each topic from its origins in the classic works of anthropology, through the historical development of the discipline, into more recent times. This course aims to show how anthropologists came to analyse human social life in the way they did, and how we can make use of this knowledge to inform the critical analysis of contemporary society, including present-day Australia.

Note: ANTH 1102 & ANTH 1104 serve as a general introduction to theories and methods of social science but can be studied on a stand-alone basis.

LEVEL II

ANTH 2003 **Anthropology of Health and Medicine**

4 units - semester 1

3 contact hours per week

Prerequisite: 6 units Level I Humanities/Social Sciences

Incompatible: ANTH 3003

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 2021 **Anthropology of Development**

4 units - semester 1

3 contact hours per week

Prerequisite: 6 units Level I Humanities/Social Sciences

Incompatible: ANTH 3021

Assessment: seminar papers/participation, major essay

This course critiques the practices, problems, social and economic processes in international development and planned culture change from a number of perspectives: conventional/modernist and post-structuralist. It also looks at some of the knowledge, skills and attitudes that are needed in seeking specific practical solutions in these settings. The course uses anthropological understandings on social development, considering macro-economic, historical and socio-political contexts of local people's development experiences. It looks at case studies from communities in various developing countries, considering critically how these stakeholders think, feel and act on development interventions & planned change from perspectives not our own.

Students will consider issues of power, knowledge, culture and development, with special attention to the radical post-development position. The relationship between specific culture change theory and practice in community-based development will also be explored, as will the various participatory field methods concerned with generating shared information, ensuring community empowerment and participation, and elucidating local views.

ANTH 2022 **Popular Culture: Passion, Style, Vibe**

4 units - semester 1

3 contact hours per week

Prerequisite: 6 units Level I Humanities/Social Sciences

Incompatible: ANTH 3022

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 and identity.

ANTH 2023 **Anthropology of Emotion, Mind & Person**

4 units - semester 2

3 contact hours per week

Prerequisite: 6 units Level I Humanities/Social Sciences

Incompatible: ANTH 3023

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 different disciplinary perspectives on emotion, mind and person, while highlighting the distinctive methodological and theoretical tasks of anthropological explanation. Specific topics covered will include cross-cultural understandings of emotion, grief and mental illness; debates on the role of language in perception; and altered states of consciousness such as dreaming, trance and possession. 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

3 contact hours per week

Prerequisite: 6 units Level I Humanities/Social Sciences

Incompatible: ANTH 3024

Assessment: workshop papers/participation, essays

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 **South East Asian Buddhist Social Worlds**

4 units - semester 2

3 contact hours per week

Prerequisite: 6 units Level I Humanities/Social Sciences

Incompatible: ANTH 3025

Assessment: workshop participation/papers, essays

The course will introduce students to the study of Theravada Buddhism in South East Asian societies. The course will examine the association between renunciation and power, religion and politics (or religio-politics), focusing mainly on Thailand and Burma (Myanmar). It will also discuss, as a comparative reflection, the increasing interest in Buddhism here in the West.

The course will also consider the way in which the worldly dimensions of religion are grounded in the day-to-day concerns of the people and societies in which it is practiced. In general, for the many peoples and polities in Buddhist South East Asia, Theravada Buddhism constitutes a significant, elaborate and active meaning system, as well as a mechanism for constructing a specific, if often contested, worldview. Students will understand "religion" and "religiosity" from an anthropological perspective, considering some important historical contributions from anthropological/sociological thinkers of religion. In short, students will examine Anthropological explanations of Buddhism as a "lived religion" in South East Asia, and will explore cultural transformations of religion from text to cultural context; namely the sources of Theravada Buddhist tradition and the ways in which it was transformed into a popular and lived religion in these societies.

ANTH 2026 **Consuming Passions: Anthropology of Food and Drink**

4 units - semester 2

3 contact hours per week

Prerequisite: 6 units Level I Humanities/Social Sciences

Incompatible: ANTH 3026

Assessment: seminar papers/participation, essays

Why is food usually shared? Why is drinking alone considered deviant? What is the connection between food and sex? Why is eating together integral to courtship? How do we decide what is ethnic food, and what isn't? Why do we change our eating and drinking habits as we climb the social ladder? How are we supposed to consume articles on diet and dieting? Why is our appetite for TV cookery programs insatiable? What makes fast food so appealing? Why is eating out taking the place of eating in? What difference will genetically modified foods make to Australian society and its culture? Food and drink are imperative to the reproduction of all social life. Their consumption is therefore integral to the construction of social identity. This course aims to raise a range of challenging and topical questions about the place of food and drink in contemporary society. It will introduce students to the work of those social anthropologists who have prioritised the study of food and drink in a range of local ethnographic contexts. It will increasingly concentrate on the nature of ethnic, hybrid and cosmopolitan cuisines as significant contributions to the emergence of global culture.

ANTH 2027 **Poverty and Social Development**

4 units - semester 2

3 contact hours per week

Prerequisite: 6 units Level I Humanities/Social Sciences

Assessment: seminar papers/participation, essays

This course introduces students to some of the principal theoretical paradigms that have supported development and poverty alleviation strategies in poor countries over the past five or six decades, including modernisation theory, modernisation revisionism, dependency theory, world systems theory, neo-Marxism, the new institutionalism, and the resource curse hypothesis. It begins by exploring the different developmental paths that countries in East Asia, Latin America, South Asia and sub-Saharan Africa have taken since the end of World War II and asks why these differences have occurred. It then examines the different answers to this question suggested by these theoretical paradigms. The next part of the course explores this issue further through an examination of particular country case studies drawn from across the developing world. The final part of the course attempts to draw out the implications of this debate for economic and social policy in developing countries and donor strategies for promoting poverty reduction and sustainable development in developing countries.

ANTH 2028 **ICT for Development**

4 units - semester 2

3 contact hours per week

Prerequisite: 6 units Level I Humanities/Social Sciences

Incompatible: ANTH 3028

Assessment: workshop papers/participation, essays

Media and Information communication technologies (ICTs) are rapidly changing the face of the developing world. Their application and use in processes of poverty reduction are numerous and cover areas such as conflict mitigation, the provision of humanitarian information, health information, and the strengthening of civil society through media deregulation and the proliferation of citizen or community media. This course examines: (i) the varied effects of information inclusion and exclusion; (ii) the information needs of poor people; (iii) the practical methods (such as Ethnographic Action Research and Communications for Social Change) and debates associated with media and ICT for Development (such as the digital divide); (iv) sectoral issues such as those relating to the communication of HIV/AIDS, informal education provision, and distance education; (v) the uses and applications of new technologies in poor countries; (vi) international and national ICT policy; and (vii) some of the popular genres associated with media and ICT for Development such as edutainment soap operas, street theatre, and participatory video. The course will encourage students to develop a geographical and thematic focus in their research essay work

ANTH 2030 **Ethnography: Engaged Social Research**

4 units - semester 2

3 contact hours per week

Prerequisite: 6 units Level I Humanities/Social Sciences

Incompatible: ANTH 3030

Assessment: research portfolio, workshop papers/participation

Ethnography is engaged social research. Ethnographers explore social life as social beings in social contexts. Ethnography can be single or multi-sited, local and global. Ethnographers document visually, audibly, literally and virtually. They employ an ensemble of techniques including participant-observation, interviews, surveys, photography, social mapping and genealogy. Ethnographic analysis frequently draws on substantive material from statistical, media and archival sources in a search for insight into contemporary conundrums.

In this course you can develop social research skills in workshops and bring them to bear in designing your own engaged research project. Lectures explore ethnography's place in the social sciences. How and why has ethnographic research inspired critical reflection on methodology, epistemology, and the nature of the human condition? How significant are shifts in the ethnographic gaze from distant and exotic societies from the 1920s to ethnography at home, in institutions and 'studying up' (from the 1970s) to the contemporary challenges of virtual communities and global practices?

If you are interested in understanding human conditions, qualitative research, engagement, epistemology, or the ethics of research then this course is for you. If you are training as a social scientist, anthropologist, or qualitative researcher then this course provides an important foundation for professional development.

LEVEL III

ANTH 3003 **Anthropology of Health and Medicine**

6 units - semester 1

3 contact hours per week

Prerequisite: 8 units Level II Humanities/Social Sciences

Incompatible: ANTH 2003

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 3021 **Anthropology of Development**

6 units - semester 1

3 contact hours per week

Prerequisite: 8 units Level II Humanities/Social Sciences

Incompatible: ANTH 2021

Assessment: seminar papers/participation, major essay

This course critiques the practices, problems, social and economic processes in international development and planned culture change from a number of perspectives: conventional/modernist and post-structuralist. It also, looks at some of the knowledge, skills and attitudes that are needed in seeking specific practical solutions in these settings. The course uses anthropological understandings on social development, considering macro-economic, historical and socio-political contexts of local people's development experiences. It looks at case studies from communities in various developing countries, considering critically how these stakeholders think, feel and act on development interventions & planned change from perspectives not our own.

Students will consider issues of power, knowledge, culture and development, with special attention to the radical post-development position. The relationship between specific culture change theory and practice in community-based development will also be explored, as will the various participatory field methods concerned with generating shared information, ensuring community empowerment and participation, and elucidating local views.

ANTH 3022 **Popular Culture: Passion, Style, Vibe**

6 units - semester 1

3 contact hours per week

Prerequisite: 8 units Level II Humanities/Social Sciences

Incompatible: ANTH 2022

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 and identity.

ANTH 3023 **Anthropology of Emotion, Mind & Person**

6 units - semester 2

3 contact hours per week

Prerequisite: 8 units Level II Humanities/Social Sciences

Incompatible: ANTH 2023

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 different disciplinary perspectives on emotion, mind and person, while highlighting the distinctive methodological and theoretical tasks of anthropological explanation. Specific topics covered will include cross-cultural understandings of emotion, grief and mental illness; debates on the role of language in perception; and altered states of consciousness such as dreaming, trance and possession. 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

3 contact hours per week

Prerequisite: 8 units Level II Humanities/Social Sciences

Incompatible: ANTH 2024

Assessment: workshop papers/participation, essays

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 **South East Asian Buddhist Social Worlds**

6 units - semester 2

3 contact hours per week

Prerequisite: 8 units Level II Humanities/Social Sciences

Incompatible: ANTH 2025

Assessment: workshop participation/papers, essays

The course will introduce students to the study of Theravada Buddhism in South East Asian societies. The course will examine the association between renunciation and power, religion and politics (or religio-politics), focusing mainly on Thailand and Burma (Myanmar). It will also discuss, as a comparative reflection, the increasing interest in Buddhism here in the West.

The course will also consider the way in which the worldly dimensions of religion are grounded in the day-to-day concerns of the people and societies in which it is practiced. In general, for the many peoples and polities in Buddhist South East Asia, Theravada Buddhism constitutes a significant, elaborate and active meaning system, as well as a mechanism for constructing a specific, if often contested, worldview. Students will understand “religion” and “religiosity” from an anthropological perspective, considering some important historical contributions from anthropological/sociological thinkers of religion. In short, students will examine Anthropological explanations of Buddhism as a “lived religion” in South East Asia, and will explore cultural transformations of religion from text to cultural context; namely the sources of Theravada Buddhist tradition and the ways in which it was transformed into a popular and lived religion in these societies.

ANTH 3026
Consuming Passions: Anthropology of Food and Drink

6 units - semester 2

3 contact hours per week

Prerequisite: 8 units Level II Humanities/Social Sciences

Incompatible: ANTH 2026

Assessment: seminar papers/participation, essays

Why is food usually shared? Why is drinking alone considered deviant? What is the connection between food and sex? Why is eating together integral to courtship? How do we decide what is ethnic food, and what isn't? Why do we change our eating and drinking habits as we climb the social ladder? How are we supposed to consume articles on diet and dieting? Why is our appetite for TV cookery programs insatiable? What makes fast food so appealing? Why is eating out taking the place of eating in? What difference will genetically modified foods make to Australian society and its culture? Food and drink are imperative to the reproduction of all social life. Their consumption is therefore integral to the construction of social identity. This course aims to raise a range of challenging and topical questions about the place of food and drink in contemporary society. It will introduce students to the work of those social anthropologists who have prioritised the study of food and drink in a range of local ethnographic contexts. It will increasingly concentrate on the nature of ethnic, hybrid and cosmopolitan cuisines as significant contributions to the emergence of global culture.

ANTH 3028
ICT for Development

6 units - semester 2

3 contact hours per week

Prerequisite: 8 units Level II Humanities/Social Sciences

Incompatible: ANTH 2028

Assessment: workshop papers/participation, essays

Media and Information communication technologies (ICTs) are rapidly changing the face of the developing world. Their application and use in processes of poverty

reduction are numerous and cover areas such as conflict mitigation, the provision of humanitarian information, health information, and the strengthening of civil society through media deregulation and the proliferation of citizen or community media. This course examines: (i) the varied effects of information inclusion and exclusion; (ii) the information needs of poor people; (iii) the practical methods (such as Ethnographic Action Research and Communications for Social Change) and debates associated with media and ICT for Development (such as the digital divide); (iv) sectoral issues such as those relating to the communication of HIV/AIDS, informal education provision, and distance education; (v) the uses and applications of new technologies in poor countries; (vi) international and national ICT policy; and (vii) some of the popular genres associated with media and ICT for Development such as edutainment soap operas, street theatre, and participatory video. The course will encourage students to develop a geographical and thematic focus in their research essay work.

ANTH 3030
Ethnography: Engaged Social Research

6 units - semester 2

3 contact hours per week

Available for Non-Award Study

Prerequisite: 8 units Level II Humanities/Social Sciences

Incompatible: ANTH 2030

Assessment: research portfolio, workshop papers/participation

Ethnography is engaged social research. Ethnographers explore social life as social beings in social contexts. Ethnography can be single or multi-sited, local and global. Ethnographers document visually, audibly, literally and virtually. They employ an ensemble of techniques including participant-observation, interviews, surveys, photography, social mapping and genealogy. Ethnographic analysis frequently draws on substantive material from statistical, media and archival sources in a search for insight into contemporary conundrums.

In this course you can develop social research skills in workshops and bring them to bear in designing your own engaged research project. Lectures explore ethnography's place in the social sciences. How and why has ethnographic research inspired critical reflection on methodology, epistemology, and the nature of the human condition? How significant are shifts in the ethnographic gaze from distant and exotic societies from the 1920s to ethnography at home, in institutions and 'studying up' (from the 1970s) to the contemporary challenges of virtual communities and global practices?

If you are interested in understanding human conditions, qualitative research, engagement, epistemology, or the ethics of research then this course is for you. If you are training as a social scientist, anthropologist, or qualitative researcher then this course provides an important foundation for professional development.

HONOURS

ANTH 4401A/B Honours Anthropology

24 units - full year

Prerequisite: UG degree & distinction average in courses contributing to major in Anthropology or equiv approved by Head of Discipline - candidates without prerequisite may apply to Honours Coordinator

Assessment: coursework (2 topics), 15000-17000 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.

Arts

LEVEL I

ARTS 1006 ReOrientation: Humanities & Social Sciences at Uni

3 units - semester 2

3 contact hours per week

Quota will apply

Incompatible: students who have successfully completed ANTH 1101 may not choose the Anthropology module within this course

Assessment: participation 10%, overview module collection/quiz 10%, skills module assignment 20%, research portfolio 50%, learning contribution 10%

University study can be exhilarating, engaging and rewarding. It can change your life. Going to uni is also a challenge. First year is a leap beyond what you know now and the ways you have relied on to learn before. You need to get oriented, to figure out what you are being asked to do in each of your different courses, to sort out how to go about studying and to organise yourself to be able to fit it into your life. You need to find people with whom to enjoy this extraordinary experience. You need to start doing all this fast. This course is designed to help you make a successful transition to university study.

To get you off to a great start you will do a common 'overview module' which introduces you to key study skills and the distinctive learning environment of the University. You will also work in a specific area of knowledge in the humanities and social sciences such as Anthropology, Asian Studies, Gender/Work, Geography, History, and Media Studies. Then guided by an expert in your chosen field, and in a social context of learning, you will explore that field and university life more deeply.

LEVEL III

ARTS 3001 Arts Internship

6 units - semester 2

2 hour seminar per week and placement

Quota will apply

Prerequisite: 8 units Level II Humanities/Social Sciences

Assessment: 2,000 word essay 20%, 5,000-7,000 word major research project 80%

As a central part of this course students will have the opportunity to spend a short time as 'interns' working within specified areas of either the private or public sector in South Australia, while completing an agreed research task. Students will be allocated placements from among a range of offerings which include members of State parliament, public service departments, statutory authorities and other non-government organisations as well as a range of private industries.

Final placement will depend upon availability and the application of an internal quota. In order to complete the process of placement allocation, students should finalise their enrolment by the completion of the normal enrolment period

Asian Studies

LEVEL I

ASIA 1101 Introduction to Chinese Society and Culture

3 units - semester 2

3 contact hours per week

Available for Non-Award Study

Assessment: term quizzes, essays, tutorial papers/presentations, hand-outs

This course introduces both Chinese language and non-language students to aspects of Chinese culture and society through the use of lectures, videos, newspaper articles, scholarly papers and stories. We learn about the ways in which China's past influences the present. It takes an interdisciplinary approach, making it an excellent introduction to students of Chinese, Asian Studies and those majoring in International Studies, History, Politics or Anthropology. It will also help any student doing commerce or trade-related subjects who might one day visit China. With China's political and economic importance increasing everyday, this is a course that no student can afford to miss if only to find out what you should go on to find out about. This course emphasises aspects of academic writing, conventions like referencing and critical thinking about sources, arguments, evidence and the like

ASIA 1102

Introduction to Japanese Society and Culture

3 units - semester 1

3 contact hours per week

Available for Non-Award Study

Assessment: essay, tutorial papers, participation, exam

This course provides an introduction to the study of Japanese society and culture, both as background knowledge for language students and as preparation for later-year subjects, especially in BA courses in Asian, Cultural or International Studies. Knowledge of the Japanese language is not required to enrol in the subject. However, students of Japanese language are strongly encouraged to take this course. The primary focus is modern Japan and its historical heritage. Aspects of society, culture, economics and politics will be presented both in traditional as well as modern contexts. By the end of the semester students will be familiar with some of the central concerns of Japanese society and culture and with some of the main approaches to study them. Teaching will combine lectures, tutorials and video presentations.

ASIA 1103

Asia and the World

3 units - semester 2

3 contact hours per week

Available for Non-Award Study

Assessment: tutorial presentations, tutorial paper, term quizzes, major essay and/or exam

Asia's immense impact on the world over the last 2-3,000 years has often been obscured and is rarely part of Australian common knowledge. Asia and the World provides all students, but especially those doing International Studies and Asian Studies, with a basic introduction to the notion of Asia, its proud history of imperial superpowers, its importance to Europe and the West in many diverse ways, and the interactions of its modern states with the West. Asia and the World details important aspects of Asia's profound influence on the world, in the forms of cultural exports of philosophy (Confucianism) and religion (like Buddhism), its long-standing technical and organisational supremacy and subsequent dominance of world trade as well as Asian empires' expansion of their military and diplomatic influence (from the Mongols' attempts to conquer Europe to Japan's attempts to take all of Asia). Asia and the World highlights the irony of how Asian inventions were adapted by Western states and used to dominate the region. The subsequent rise of independent Asian nation states is reviewed and contextualised. Finally, the growing economic, diplomatic and military roles of these modern states in the world are surveyed and Asia's contemporary importance assessed.

LEVEL II

ASIA 2002

Asian Studies (Core Topic)

4 units - semester 1

3 contact hours per week

Prerequisite: 6 units Level I Humanities/Social Sciences

Incompatible: ASIA 3003

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", globalization, human rights, cultural perceptions of Asia, as well as Australia's relations with Asia.

ASIA 2003

Australia and the Asia Pacific

4 units - semester 2

3 contact hours per week

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 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 1

3 contact hours per week

Prerequisite: 6 units Level I Humanities/Social Sciences

Incompatible: ASIA 3008

Assessment: term quizzes, tutorial papers & major research essay (singular or group) or take-home exam

Contemporary China focuses on themes underlying the evolution of Chinese politics and society from circa 1900 to the present. In the first half of the course we

examine the social and political currents of early twentieth century China, especially those that 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 then examine how the CCP began a process of reform under Deng Xiaoping. In the second term, we discuss the ability of the Party to respond effectively to the challenges of change, such as: political reform (whether and/or how to become more democratic); how to make social adjustments; how to cope with corruption, China's attitude to Taiwan, China's role internationally are also covered explicitly or a made key areas for student research.

ASIA 2012 Contemporary Japan: Culture and Identity

4 units - semester 2

3 contact hours per week

Prerequisite: 6 units Level I Humanities/Social Sciences

Incompatible: ASIA 3012

Assessment: 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

3 contact hours per week.

Prerequisite: 6 units level I Humanities/Social Sciences

Incompatible: ASIA 3015

Assessment: tutorial presentation, tests, participation, semester essays

The course focuses on the post-war Japanese politics and foreign policy. It aims to provide students with an appreciation of the workings of the Japanese political and policy-making system and contemporary issues in its foreign relations. Additionally it aims 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, civil society, defence and security, foreign aid, Japan's relations with the United States, Australia and Asian nations and its role in such multilateral organisations as the United Nations.

ASIA 2016 Religions of China

4 units - semester 2

3 contact hours per week

Prerequisite: 6 units Level I Humanities/Social Sciences

Incompatible: ASIA 3016

Assessment: group or individual presentations, reflection papers, minor research papers

This course examines some key parts of Chinese religious beliefs and practices past and present. These elements may include some examination of Buddhism, aspects of folk religion such as Ghost culture, Daoism and Confucianism as well as contemporary practices and beliefs (For example, Falungong). Students may visit local places of Chinese religious practice and worship including Buddhist temples. Any such visits are for students to further their understanding of the modern views of religion and practice as well as the function of traditional Chinese ritual in today's Australia. Students will gain an insight into 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

3 contact hours per week

Prerequisite: 8 units Level II Humanities/Social Sciences

Incompatible: ASIA 2003

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 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 1

3 contact hours per week

Prerequisite: 8 units Level II Humanities/Social Sciences

Incompatible: ASIA 2008

Assessment: tutorial papers, term quizzes and major research essay (singular or group) or take-home exam

Contemporary China focuses on themes underlying the evolution of Chinese politics and society from circa 1900 to the present. In the first half of the course we examine the social and political currents of early twentieth century China, especially those that 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 then examine how the CCP began a process of reform under Deng Xiaoping. In the second term, we discuss the ability of the Party to respond effectively to the challenges of change, such as: political reform (whether and/or how to become more democratic); how to make social adjustments; how to cope with corruption, China's attitude to Taiwan, China's role internationally are also covered explicitly or a made key areas for student research.

ASIA 3012

Contemporary Japan: Culture and Identity

6 units - semester 2

3 contact hours per week

Prerequisite: 8 units Level II Humanities/Social Sciences

Incompatible: ASIA 2012

Assessment: 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 3015

Politics and Foreign Policy in Contemporary Japan

6 units - semester 1

3 contact hours per week

Prerequisite: 8 units Level II Humanities/Social Sciences

Incompatible: ASIA 2015

Assessment: tutorial presentation, tests, participation, semester essays

The course focuses on the post-war Japanese politics and foreign policy. It aims to provide students with an appreciation of the workings of the Japanese political and policy-making system and contemporary issues in its

foreign relations. Additionally it aims 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, civil society, defence and security, foreign aid, Japan's relations with the United States, Australia and Asian nations and its role in such multilateral organisations as the United Nations

ASIA 3016

Religions of China

6 units - semester 2

3 contact hours per week

Prerequisite: 8 units Level II Humanities/Social Sciences

Incompatible: ASIA 2016

Assessment: group or individual presentation, reflection papers, research papers

This course examines some key parts of Chinese religious beliefs and practices past and present. These elements may include some examination of Buddhism, aspects of folk religion such as Ghost culture, Daoism and Confucianism as well as contemporary practices and beliefs (For example, Falungong). Students may visit local places of Chinese religious practice and worship including Buddhist temples. Any such visits are for students to further their understanding of the modern views of religion and practice as well as the function of traditional Chinese ritual in today's Australia. Students will gain an insight into 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 4401A/B

Honours Asian Studies

24 units - full year

Prerequisite: UG degree, Credit average in courses contributing to major in Asian Studies or equiv approved by Head of Discipline

Assessment: 2 coursework topics with written work of approx 7200-9000 words 25% each, 15000-17000 word thesis 50%

Students wishing to take Honours Asian Studies are encouraged to consult the Honours Coordinator prior to commencing Level II/III courses to ensure that appropriate course choices are made in preparation for Honours. Entry to Honours is subject to the approval of the Head of Discipline on advice from the Honours Committee. The Honours program consists of three elements: a research thesis and 2 coursework topics which normally include theory and methodology in Asian Studies. Unlike Honours Chinese Studies (CHIN 4401) and Honours Japanese Studies (JAPN 4401), Honours Asian Studies (ASIA 4401) does not require an Asian Language (Chinese or Japanese). We encourage students who are eligible for Honours in more than one discipline to consider a Joint Honours program with the approval of the Heads

of Discipline on advice from their respective Honours Coordinators. Students wishing to take Honours but who are without prerequisites are advised to consult the Honours Coordinator as soon as possible.

Biochemistry

LEVEL II

BIOCHEM 2100 Biochemistry IIA

4 units - semester 1

3 lectures, 1 tutorial work per week, 4 hours practical per fortnight

Available for Non-Award Study

Prerequisite: Pass in at least 6 units of both Level I Chemistry & Biology

Assumed Knowledge: Level I Biology & Chemistry

Incompatible: BIOCHEM 2000, BIOCHEM 2100/2200, BIOCHEM 2001, BIOCHEM 2101, BIOCHEM 2201 BIOCHEM 2005, BIOCHEM 2105, BIOCHEM 2205, BIOCHEM 2003

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 per week

Restriction: BSc (Molecular Biology) students only

Prerequisite: Pass in CHEM 1000A/B or CHEM 1100 & CHEM 1200 & BIOLOGY 1101 or BIOLOGY 1102 & BIOLOGY 1201/1202 - other prerequisites may be accepted at discretion of Head of Discipline

Corequisite: BIOCHEM 2002

Assumed Knowledge: Level I Biology & Chemistry

Incompatible: BIOCHEM 2000A/B, BIOCHEM 2100, BIOCHEM 2200, BIOCHEM 2001, BIOCHEM 2101, BIOCHEM 2201, BIOCHEM 2003

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

Restriction: BSc (Molecular Biology) students only

Prerequisite: Pass in either CHEM 1000 or CHEM 1100/1200 & pass in BIOLOGY 1101/1102 & BIOLOGY 1201 - other prerequisites may be accepted at discretion of Head of Discipline

Corequisite: BIOCHEM 2101

Assumed Knowledge: Level I Biology & Chemistry

Assessment: practical component, tutorials, written reports

This is 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 that molecular biology brings to modern research into gene function and cell biology, with applications to medicine and biotechnology. The course material will be presented by staff from the Schools of Molecular and Biomedical Science, Physics and Chemistry and Agriculture and Wine. Invited professional researchers 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, 1 tutorial per week, 4 hours practical per fortnight

Restriction: BSc (Biotech) students only

Prerequisite: Pass in either CHEM 1000, CHEM 1200 & BIOLOGY 1101 or BIOLOGY 1102 & BIOLOGY 1201 or BIOLOGY 1202

Assumed Knowledge: Level I Biology & Chemistry

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, B and C series. Refer to Current Students Online Enrolment information at www.sciences.adelaide.edu.au for information on enrolling in these practicals.

BIOCHEM 2106WT Biochemistry II (Agriculture) A

4 units - semester 1

Average 7 hours per week including lectures, tutorials, &/or practicals

Assumed Knowledge: CHEM 1000A/B or CHEM 1001A/B

Incompatible: PLANT SC 2002WT, BIOCHEM 2100

Assessment: exams on lecture material; tutorials & practicals

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 2107 Biochemistry IIA (Med Surgery)

3 units - semester 1

3 lectures, 1 tutorial per week

Restriction: Medicine Surgery Students Only

Assessment: exams on lecture material, other material as specified

This course provides an understanding and an appreciation of Enzyme Function 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 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 at least 6 units of both Level I Chemistry & Biology

Assumed Knowledge: Level 1 Biology & Chemistry

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 per week

Restriction: BSc (Molecular Biology) students only

Prerequisite: Pass in either CHEM 1000A/B or CHEM 1100 & CHEM 1200, pass in BIOLOGY 1101 or BIOLOGY 1102 & BIOLOGY 1201 or BIOLOGY 1202 - other prerequisites may be accepted at the discretion of Head of Discipline

Corequisite: BIOCHEM 2202

Assumed Knowledge: Level I Biology & Chemistry

Incompatible: BIOCHEM 2000, BIOCHEM 2100, BIOCHEM 2200, BIOCHEM 2001, BIOCHEM 2101, BIOCHEM 2201, BIOCHEM 2003

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

Restriction: BSc (Molecular Biology) students only

Prerequisite: Pass in either CHEM 1000 or CHEM 1100 & 1200, BIOLOGY 1101 &/or BIOLOGY 1201 - other prerequisites may be accepted at discretion of Head of Discipline

Corequisite: BIOCHEM 2101

Assumed Knowledge: Level I Biology & Chemistry

Assessment: practical component, tutorials, written reports

This is 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 that molecular biology brings to modern research into gene function and cell biology, with applications to medicine and biotechnology. The course material will be presented by staff from the Schools of Molecular and Biomedical Sciences, Physics and Chemistry and Agriculture and Wine. Invited professional researchers 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; 4 hours practical per fortnight

Restriction: For BSc (Biotech) students only

Prerequisite: Pass in either CHEM 1000, CHEM 1201 & BIOLOGY 1101 or 1102 & BIOLOGY 1201/1202

Corequisite: Other courses required for BSc.(Biotech)

Assumed Knowledge: Level I Biology & Chemistry; BIOCHEM 2105

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 2207

Biochemistry IIB (Med Surgery)

3 units - semester 2

3 lectures, 1 tutorial per week

Restriction: Medicine Surgery students only

Assessment: exams on lecture material, other material as specified

Biochemistry 11B (Med Surg) Biochemistry provides an understanding and an appreciation of Molecular and Cell Biology. The topics covered include: DNA structure and synthesis, mutation and repair, RNA and protein synthesis and the control of gene expression, cell structure and organisation, and signal transduction pathways.

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: Pass BIOCHEM 2100 & 2200 or BIOCHEM 2205

Assumed Knowledge: Students who completed Biochemistry II prior to 1995 should consult department for advice

Incompatible: BIOCHEM 3900, BIOCHEM 3902, BIOCHEM 3904, BIOCHEM 3905

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: Pass in both BIOCHEM 2100 & 2200, or both BIOCHEM 2105 & BIOCHEM 2205

Assumed Knowledge: BIOCHEM 3000

Incompatible: Molecular Biology of Development, BIOCHEM 3901, BIOCHEM 3903

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 3125

Advanced Molecular Biology IIIA (Biochemistry)

6 units - semester 1

3 lectures, 5 hour practical, 1 hour tutorial

Restriction: BSc (Molecular Biology)

Prerequisite: Adv. Molecular Biology; Biochemistry II

Incompatible: BIOCHEM 3000, GENETICS 3110

Assessment: written exam on lecture material, written and oral reports on practicals & tutorials

This course combines lectures from Molecular and Structural Biology 3 with practical exercises and/or laboratory placements in professional research laboratories. It includes a special set of tutorial/Problem Based Learning (PBL) exercises, not offered in any other course, which are designed to provide students with a perspective of how cutting edge molecular biology principles and techniques are applied to major research questions. The PBL segment of course will include aspects of biochemistry, genetics, microbiology/immunology and chemistry. This course will illustrate that cross-disciplinary approaches are essential in modern research.

BIOCHEM 3225

Advanced Molecular Biology IIIB (Biochemistry)

6 units - semester 2

3 lectures, 5 hour practical, 1 hour tutorial

Restriction: BSc (Molecular Biology) students

Prerequisite: Adv. Molecular Biology; Biochemistry II

Incompatible: BIOCHEM 3001, GENETICS 3210

Assessment: written exam on lecture material, written and oral reports on practicals & tutorials

This course combines lectures from Cell and Developmental Biology 3 with practical exercises and/or laboratory placements in professional research laboratories. It includes a special set of tutorial/Problem Based Learning (PBL) exercises, not offered in any other course, which are designed to provide students with a perspective of how cutting edge molecular biology principles and techniques are applied to major research questions. The PBL segment of the course will include aspects of biochemistry, genetics, microbiology/immunology and chemistry. This course will illustrate that cross-disciplinary approaches are essential in modern research.

HONOURS

BIOCHEM 4000A/B Honours Biochemistry

24 units - full year

Prerequisite: Satisfactory performance in Level III courses offered by School of Molecular and Biomedical Science - 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 importantly, 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 Head of Biochemistry during the final year of the BSc.

Biotechnology

LEVEL II

BIOTECH 2005 Principles of Biotechnology II

4 units - semester 2

3 lectures, 4 hrs tutorial/practical work per week

Available for Non-Award Study

Prerequisite: CHEM 1000A/B, GENETICS 1000A/B

Assessment: exams on lecture material, practical component & tutorial material

This multi-disciplinary course provides students with an introduction to key aspects of modern biotechnology practice including the interaction between scientific discovery and practical production tools and aspects. Four key areas will be covered: Introduction to Bio-Process Engineering Principles - enzymes, cell-culture systems, fermenters, recovery and purification of product. Microbial Gene Expression - sequencing and amplification of DNA, gene expression in prokaryotic and eukaryotic systems, molecular diagnostics, therapeutic agents, vaccines and commercial processes. Plant Systems - DNA marker technology, plant culture, genetic engineering and genomics. Mammalian Systems - characteristics and growth, gene transfer in vitro & in vivo, expression systems, applications.

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

Available for Non-Award Study

Prerequisite: SACE Stage 2 Chemistry with Subject Achievement score of at least 13 or equiv - in exceptional circumstances, consult Head of Chemistry

Incompatible: CHEM 1101, CHEM 1201

Assessment: exam 70%, practical work, computer assessed tutorials

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. Chemistry of the Elements - chemistry of the main group metals and non-metals, an introduction to bonding in transition (d-block) elements, coordination complexes, bioinorganic systems.

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

Available for Non-Award Study

Prerequisite: SACE Stage 2 Chemistry Subject Achievement score of at least 13 (or equiv) - in exceptional circumstances, consult Head of Chemistry

Assumed Knowledge: CHEM 1100

Incompatible: CHEM 1201

Assessment: exam, practical work, computer assessed tutorials

Matter and Energy - the relevance of intermolecular forces, chemical equilibrium, energy considerations and chemical reactivity applied to aspects of chemistry and biochemistry. Synthetic and Bioorganic Chemistry - an introduction to chemical synthesis with particular reference to addition and substitution reactions. Strategies for synthesis and properties of biologically significant molecules will also be addressed.

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

Restriction: Only students with SACE Stage 2 Chemistry Subject Achievement score of less than 13 or equiv

Available for Non-Award Study

Assumed Knowledge: CHEM 1101

Incompatible: CHEM 1100/1200

Assessment: exam, practical work, computer assessed tutorials

Equilibrium & Energy - Introduction to chemical equilibrium - acids and bases, titrations, buffers. Energy considerations applied to aspects of chemistry and biochemistry. Bio-organic & Polymer Chemistry - introduction to spectroscopic identification of functional groups and molecular structure, chemistry of synthetic and biological polymers including polyalkenes, polyesters and polyamides; peptides and proteins.

LEVEL II

CHEM 2003 Environmental Chemistry II

4 units - semester 1

3 lectures, 1 tutorial, 6 hours practical work per week

Available for Non-Award Study

Prerequisite: CHEM 1100 & CHEM 1200, CHEM 1101 & CHEM 1201 or equiv

Incompatible: SOIL&WAT 2009WT

Assessment: exam, practical work

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. Teaching will be through lectures and practical classes and may include some field study.

CHEM 2100 Chemistry IIA

4 units - semester 1

3 lectures, 1 tutorial, 6 hours practical work (or equiv) per week

Available for Non-Award Study

Prerequisite: CHEM 1100 & CHEM 1200, credit in CHEM 1101 & CHEM 1201, or equiv

Assessment: exams, practical work, tutorial papers

Studies in Chemistry at Level 2 deal with a range of fundamental concepts that can be used to explain various phenomena in chemistry, biology and materials science. The courses have been designed to provide students who have an interest in chemistry with the necessary knowledge and skills to undertake further studies in chemistry and/or pursue alternative pathways in the biological, environmental, earth and physical sciences. Chemistry IIA focuses on chemical reactivity and illustrates both how reactions occur and how structure influences the properties of aromatic molecules. The examples used to illustrate these points draw on expertise in the areas of structure determination, the properties and reactions of aromatic molecules, thermodynamics, kinetics and the principles of metal-ligand chemistry.

Chemistry IIA focuses on chemical reactivity and illustrates both how reactions occur and how structure influences the properties of molecules. The examples used to illustrate these points draw on expertise in the areas of structure determination, the properties and reactions of molecules, thermodynamics, kinetics and the principles of metal-ligand chemistry.

CHEM 2101 Chemistry IIA (Molecular Biology)

3 units - semester 1

3 lectures, 1 tutorial per week

Restriction: BSc (Molecular Biology) students only

Prerequisite: CHEM 1100, CHEM 1200

Corequisite: BIOCHEM 2102

Incompatible: CHEM 2102

Assessment: exam, tutorial papers

Chemistry IIA (Mol Biol) focuses on chemical reactivity and illustrates both how reactions occur and how structure influences the properties of molecules. The examples used to illustrate these points draw on expertise in the areas of structure determination, the properties and reactions of aromatic molecules, thermodynamics, kinetics and the principles of metal-ligand chemistry.

CHEM 2104 Chemistry IIAE

4 units - semester 1

3 lectures, 1 tutorial, 6 hours practical work (or equiv.) per week

Restriction: Chemical Engineering students only

Prerequisite: CHEM 1100, CHEM 1200, Credit in CHEM 1101 & CHEM 1201, or equiv

Incompatible: CHEM 2100

Assessment: exam, practical work, tutorial papers

Chemistry IIAE focuses on chemical reactivity and illustrates both how reactions occur and how structure influences the properties of molecules. The examples used to illustrate these points draw on expertise in the areas of structure determination, the properties and reactions of aromatic molecules, thermodynamics, kinetics and the principles of metal-ligand chemistry.

CHEM 2105 Chemistry IIA (Ecochemistry)

4 units - semester 1

3 lectures; 2 x 1 hour tutorials; 6 hour practical (or equiv.) per week

Restriction: BSc (Ecochemistry) students only

Prerequisite: CHEM 1100, CHEM 1200 Chemistry IB, Credit in CHEM 1101 & CHEM 1201, or equiv

Incompatible: CHEM 2100

Assessment: exams, practical work, tutorials

Chemistry IIA (Ecochemistry) focuses on chemical reactivity and illustrates both how reactions occur and how structure influences the properties of molecules. The examples used to illustrate these points draw on expertise in the areas of structure determination, the properties and reactions of aromatic molecules, thermodynamics, kinetics and the principles of metal-ligand chemistry.

CHEM 2106 **Chemistry IIA (Molecular & Drug Design)**

4 units - semester 1

3 lectures, 2 tutorials, 6 hours practical work (or equiv.) per week

Restriction: BSc (Molecular & Drug Design) students only

Prerequisite: CHEM 1100, CHEM 1200

Incompatible: CHEM 2100

Assessment: exam, practical work, tutorial papers

Chemistry IIA (Mol Drug Des) focuses on chemical reactivity and illustrates both how reactions occur and how structure influences the properties of molecules. The examples used to illustrate these points draw on expertise in the areas of structure determination, the properties and reactions of aromatic molecules, thermodynamics, kinetics and the principles of metal-ligand chemistry.

CHEM 2107 **Chemistry IIA (NanoScience & Materials)**

4 units - semester 1

3 x 1hr lectures; 2 x 2hr tutorials; 1 x 6hr practical or equiv

Restriction: BSc (NanoScience & Materials) students only

Prerequisite: CHEM 1100, CHEM 1200

Incompatible: CHEM 2100

Assessment: exams, practical work, tutorials

Chemistry IIA (Nanoscience & Materials) focuses on chemical reactivity and illustrates both how reactions occur and how structure influences the properties of molecules. The examples used to illustrate these points draw on expertise in the areas of structure determination, the properties and reactions of aromatic molecules, thermodynamics, kinetics and the principles of metal-ligand chemistry.

CHEM 2200 **Chemistry IIB**

4 units - semester 2

3 lectures, 1 tutorial, 6 hours practical work (or equiv.) per week

Available for Non-Award Study

Prerequisite: CHEM 1100, CHEM 1200, Credit in CHEM 1101 & CHEM 1201, or equiv

Assumed Knowledge: CHEM 2100

Assessment: exam 6, practical work, tutorial papers

Studies in Chemistry at Level 2 deal with a range of fundamental concepts that can be used to explain various phenomena in chemistry, biology and materials science. The courses have been designed to provide students who have an interest in chemistry with the necessary knowledge and skills to undertake further studies in chemistry and/or pursue alternative pathways in the biological, environmental, earth and physical sciences. Chemistry IIB focuses on the spectroscopic and geometric properties of molecules, and how these influence reactivity. The examples used to illustrate these points draw on expertise in atomic and molecular spectroscopy, symmetry and stereochemistry and organic synthesis.

CHEM 2201 **Chemistry IIB (Mol Biol)**

3 units - semester 2

3 lectures, 1 tutorial per week

Restriction: BSc (Molecular Biology) students only

Prerequisite: CHEM 1100, CHEM 1200

Corequisite: BIOCHEM 2202

Assumed Knowledge: CHEM 2101

Incompatible: CHEM 2200

Assessment: exams, tutorial papers

Chemistry IIB (Mol. Biol.) focuses on the spectroscopic and geometric properties of molecules, and how these influence reactivity. The examples used to illustrate these points draw on expertise in atomic and molecular spectroscopy, symmetry and stereochemistry and organic synthesis.

CHEM 2204 **Chemistry IIBE**

2 units - semester 2

12 hours lectures, 4-5 x 6 hour practical sessions (or equiv.), tutorials

Restriction: Chemical Engineering students only

Prerequisite: CHEM 1100, CHEM 1200, Credit in CHEM 1101 & CHEM 1201, or equiv

Assumed Knowledge: CHEM 2104

Incompatible: CHEM 2200

Assessment: exams, practical work, tutorial papers

Chemistry IIBE will focus on why and how reactions occur. To illustrate this, the topics to be covered will be selected from thermodynamics and quantum energetics, reaction kinetics and dynamics, surface chemistry and/or aspects of industrial chemistry (such as polymers, petroleum chemistry and catalysis).

CHEM 2205 **Chemistry IIB (Ecochemistry)**

4 units - semester 2

3 x 1hr lectures; 2 x 1hr tutorials; 6hr practical (or equiv) a week

Restriction: BSc (Ecochemistry) students only

Prerequisite: CHEM 1100, CHEM 1200, Credit in CHEM 1101 & CHEM 1201, or equiv

Assumed Knowledge: CHEM 2105

Incompatible: CHEM 2200

Assessment: exams, practical work, tutorials

Chemistry IIB (Ecochemistry) focuses on the spectroscopic and geometric properties of molecules, and how these influence reactivity. The examples used to illustrate these points draw on expertise in atomic and molecular spectroscopy, symmetry and stereochemistry and organic synthesis.

CHEM 2206 **Chemistry IIB (Molecular and Drug Design)**

3 lectures, 2 tutorials, 6 hours practical work (or equiv) per week

Restriction: BSc (Molecular & Drug Design) students only

Prerequisite: CHEM 1100/1200

Assumed Knowledge: CHEM 2106

Incompatible: CHEM 2200

Assessment: exam, practical work, tutorial papers

This course focuses on the spectroscopic and geometric properties of molecules, and how these influence reactivity. The examples used to illustrate these points draw on expertise in atomic and molecular spectroscopy, symmetry and stereochemistry and organic synthesis.

CHEM 2207 **Analytical Chemistry II**

4 units - semester 2

3 lectures, 1 tutorial, 6 hours practical work (or equiv) per week

Available for Non-Award Study

Prerequisite: CHEM 1100/1200, CHEM 1101/1201 or equiv

Assessment: exam, practical work, tutorial papers

This course examines and provides a sound physical understanding of the techniques that a professional chemist would use to determine chemical composition of material. It includes chromatography of various types, electrochemical and optical spectroscopic methods (including metal analysis), advanced instrumental techniques and statistical analysis of data. Issues surrounding ethical professional practice will also be addressed.

CHEM 2208 **Analytical Chemistry II (Ecochemistry)**

4 units - semester 2

3 lectures, 1 tutorial, 6 hours practical work (or equiv) per week

Restriction: BSc (EcoChemistry) students only

Prerequisite: CHEM 1100/1200, CHEM 1101/1201 or equiv

Corequisite: CHEM 2200

Incompatible: CHEM 2207

Assessment: exam, practical work, tutorial papers

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, electrochemical and optical spectroscopic methods (including metal analysis), advanced instrumental techniques and statistical analysis of data. The practical component will focus on environmental applications of these techniques. Issues surrounding ethical professional practice will also be addressed.

CHEM 2209 **Analytical Chemistry II (Nanoscience & Materials)**

4 units - semester 2

3 lectures, 1 tutorial, 6 hours practical work (or equiv) per week

Restriction: BSc (Nanoscience & Materials) students only

Prerequisite: CHEM 1100/1200, CHEM 1101/1201 or equiv

Corequisite: CHEM 2200

Incompatible: CHEM 2207

Assessment: exam, practical work, tutorial papers

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, electrochemical and optical spectroscopic methods (including metal analysis), advanced instrumental techniques and statistical analysis of data. The practical component will focus on applications of these techniques to modern materials. Issues surrounding ethical professional practice will also be addressed.

CHEM 2210 **Chemistry IIB (NanoScience & Materials)**

4 units - semester 2

3 lectures, 2 x 2 hour tutorials, 6 hour practical (or equiv) per week

Restriction: BSc (NanoScience & Materials) students only

Available for Non-Award Study

Prerequisite: CHEM 1100, CHEM 1200

Assumed Knowledge: CHEM 2017

Incompatible: CHEM 2200

Assessment: exams, practical work, tutorials

Chemistry IIB (Nanoscience & Materials) focuses on the spectroscopic and geometric properties of molecules, and how these influence reactivity. The examples used to illustrate these points draw on expertise in atomic and molecular spectroscopy, symmetry and stereochemistry and organic synthesis.

LEVEL III

CHEM 3005 **Topics in Chemistry IIIA**

6 units - semester 1

4 lectures, 12 hours practical work or equiv per week

Available for Non-Award Study

Prerequisite: CHEM 2100, CHEM 2200 or equiv

Course content by arrangement with Head of Chemistry
CHEM 3006

Topics in Chemistry IIIB

6 units - semester 2

4 lectures, 12 hours practical work or equiv per week

Available for Non-Award Study

Prerequisite: CHEM 2100, CHEM 2200 or equiv

Course content by arrangement with Head of Chemistry

CHEM 3111 **Chemistry III**

6 units - semester 1

4 lectures, 1 tutorial, 12 hours practical work or equiv per week

Available for Non-Award Study

Prerequisite: CHEM 2100, CHEM 2200 or equiv

Incompatible: CHEM 3109, CHEM 3110, CHEM 3209, CHEM 3210

Assessment: exam, practical work

This course is foundational to all Level 3 studies in Chemistry. It will commence with a review of molecular symmetry with applications to molecular orbitals and spectroscopy. The spectroscopic interaction of matter with varying forms of radiation will be examined, including the phenomena of absorption, fluorescence and phosphorescence. A variety of spectroscopies will be explored in detail. The use of spectroscopic techniques, particularly IR & NMR, 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. Introduction to metal mediated reactions and catalytic cycles relevant to synthesis will be explored, particularly chemistry based around Group 10 metals. This includes an introduction to fundamental aspects of organometallic chemistry. Strategy and tactics used in the synthesis of new molecular architectures will be introduced. There will be an emphasis on developing a logical approach to planning a synthesis. Finally, aspects relating to electron and redox chemistry will be undertaken.

CHEM 3112 **Chemical Applications III**

6 units - semester 1

4 lectures, 1 tutorial, 12 hours practical work or equiv per week

Available for Non-Award Study

Prerequisite: CHEM 2100, CHEM 2200 or equiv

Corequisite: CHEM 3111

Incompatible: CHEM 3109, CHEM 3110, CHEM 3209, CHEM 3210

Assessment: exam, project work, practical work

This course will consider the application of a number of chemical principles. An introduction to Frontier Molecular Orbital theory as a means of rationalising electrocyclic reactions, cycloaddition reactions and sigmatropic rearrangements will be presented. The Woodward-Hoffman rules will be introduced. The interaction of metals with unsaturated organic molecules will be discussed as a prelude to consideration of some processes used in industry, including the use of Group 4 based metallocenes. Understanding statistical methods and processes with application to chemical systems will be also addressed. Principles of synchrotron and free-electron laser sources will also be presented including and introduction to diffraction techniques (X-ray, neutron and electron).

CHEM 3211 **Heterocyclic Chemistry and Molecular Devices III**

3 units - semester 2

2 lectures, 1 tutorial, 6 hours practical or equiv per week

Available for Non-Award Study

Prerequisite: CHEM 2100, CHEM 2200 or equiv

Assumed Knowledge: CHEM 3111

Incompatible: CHEM 3109, CHEM 3110, CHEM 3209, CHEM 3210

Assessment: exam, practical work

This course will begin with a survey of the common heterocyclic ring systems including their distribution and importance. A discussion of the chemistry, synthesis and reaction of aromatic heterocyclic compounds with emphasis on those biological significance will then follow. Particular emphasis will be placed on reagents and mechanisms of these processes. The synthesis, properties and utility of a range of macrocycles including coronands and cryptands will then be presented. Recognition of metal ions by coronands and cryptands will be used as an introduction to the principles of host-guest chemistry. The recognition of hydrophobic species by cyclodextrins will then be presented. Finally aspects of the construction of molecular devices will be discussed.

CHEM 3212 **Materials Chemistry III**

3 units - semester 2

2 lectures, 1 tutorial, 6 hours practical or equiv per week

Available for Non-Award Study

Prerequisite: CHEM 2100, CHEM 2200 or equiv

Assumed Knowledge: CHEM 3111

Incompatible: CHEM 3109, CHEM 3110, CHEM 3209, CHEM 3210

Assessment: exam, practical work

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 special characteristics of laser radiation including underlying aspects and operation of various types of lasers. The use of lasers in chemical process, such as photo-lithography, will then be considered. Aspects of one and two dimensional nanostructured materials will be considered, including their structure, generation and quantum properties.

CHEM 3213 **Advanced Synthetic Methods III**

3 units - semester 2

2 lectures, 1 tutorial, 6 hours practical or equiv per week

Available for Non-Award Study

Prerequisite: CHEM 2100, CHEM 2200 or equiv

Assumed Knowledge: CHEM 3111

Incompatible: CHEM 3109, CHEM 3110, CHEM 3209, CHEM 3210

Assessment: exam, practical work

Theoretical aspects and applications of a variety of synthetically useful reactions will be presented. During the course, we will continually expand the arsenal of powerful synthetic methods available and exemplify their uses. We will focus on efficiency (how do you get the

greatest amount of the desired compound in the fewest steps?), chemo- and regio-selectivity (how do you get only the reaction you want and only at the site of interest?) and stereochemistry (how do you control the absolute and relative stereochemistry of the products of various reactions?). An overview will be given of synthetic strategy including the design and control of stereochemistry in the synthesis of complex molecules. The applications of chemical principles in a variety of contexts including industrial processes & chiral synthesis will be addressed.

CHEM 3214 **Medicinal and Biological Chemistry III**

3 units - semester 2

2 lectures, 1 tutorial, 6 hours practical or equiv per week

Available for Non-Award Study

Prerequisite: CHEM 2100, CHEM 2200 or equiv

Assumed Knowledge: CHEM 3111

Incompatible: CHEM 3109, CHEM 3110, CHEM 3209, CHEM 3210

Assessment: exam, practical work

An introduction to the principles of medicinal chemistry including natural product isolation, lead generation, lead optimisation and quantitative structure-activity relationships will be presented. The principles of parallel and combinatorial synthesis will be presented in this context. Applications of mass spectrometry, NMR spectroscopy and other techniques 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. An introduction to the arena of biomimetic inorganic chemistry will be presented, including extensive discussion of the structure and function of metalloenzymes. The section will emphasise how the principles of nature can be applied to the rational design of metallic species capable of controlled small molecule activation.

HONOURS

CHEM 4000A/B **Honours Chemistry**

24 units - full year

Prerequisite: major in Chemistry, Organic Chemistry, Physical & Inorganic Chemistry, Chemical Synthesis, Chemistry of Materials or another appropriate program, at a standard satisfactory to the Head of Chemistry

Assessment: coursework, research report, oral exam, seminar

Intending Honours students should consult the Head of Chemistry during the preceding year. The Discipline 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, experimental skills, independent thought 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 4001A/B **Honours B.Environmental Science (Chemistry)**

12 units - full year

Prerequisite: Credit or higher in at least 2 Level III courses approved by Head of Chemistry. Intending candidates should consult Head of Chemistry for potential supervisors during third year and be prepared to begin studies at the start of Feb or Aug

Assessment: research proposal, seminars, thesis, viva voce 60%, average of Level III courses referred to above 40%

Research project of the student's choosing (on topic acceptable to Head of Chemistry) normally taken at same time as coursework (12 units of Level III courses relevant to the student's Honours project).

Chinese

LEVEL I

CHIN 1001 **Chinese IA**

3 units - semester 1

4 contact hours per week, plus 1 hour language lab (unsupervised)

Available for Non-Award Study

Assumed Knowledge: no previous knowledge of Chinese required

Assessment: continuous assignments & tests, oral tests, mid-term test & final exams

Chinese IA is a subject for beginners in the language, followed by Chinese IB in semester 2 to build up basic knowledge and skills in Chinese. Students who have studied Chinese before should contact the lecturers concerned to decide the best level at which to place them. Chinese IA teach the fundamental grammar and vocabulary of modern standard Chinese (formerly known as Mandarin). This is the educated speech of North China which is now the official national language. Simplified characters are taught. The vocabulary reflects usage in contemporary China. It is expected that at the end of the course students should be able to master Chinese phonetic system (Hanyu Pinyin), and should have an active vocabulary of around 200 Chinese characters and associated compounds concentrating on vocabulary that relates to contemporary China.

CHIN 1002 **Chinese IB**

3 units - semester 2

4 contact hours, 1 hour in language lab (unsupervised) per week

Available for Non-Award Study

Prerequisite: CHIN 1001 (or equiv)

Assessment: assignments, tests, oral tests, mid-term test & final exams

Chinese IB is a continuation of 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 400 Chinese characters and associated compounds.

CHIN 1011 Chinese ISA

3 units - semester 1

5 contact hours per week

Available for Non-Award Study

Prerequisite: Continuers level Chinese (at 14 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 course the student will know about 650 Chinese characters and associated compounds related to contemporary China.

CHIN 1012 Chinese ISB

3 units - semester 2

5 contact hours per week

Available for Non-Award Study

Prerequisite: CHIN 1011 (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 900 Chinese characters.

CHIN 1013 Classical Chinese Texts

3 units - semester 1

3 contact hours per week

Available for Non-Award Study

Corequisite: ASIA 1101 compulsory for students majoring in Chinese

Assumed Knowledge: Students should have native or near native Chinese language proficiency; Students who have completed advanced level Chinese may enrol only after consultation, and at discretion of course coordinator

Incompatible: CHIN 1001, CHIN 1011, CHIN 2001, CHIN 2011, CHIN 3001, CHIN 3011 and students who have completed CHIN 2003, CHIN 2004, CHIN 3002, CHIN 3003, CHIN 3004

Assessment: translation assignments 20%, quizzes 20%, oral presentation 10%, written exam 40%, class participation 10%

This course will introduce students to the basics of classical Chinese grammar and familiarise students with representative examples of classical texts including poetry and literary essays in different periods of the Chinese history. It aims to develop a higher elementary/intermediate reading ability in classical Chinese texts. Students will read a selection of philosophical, historical and literary classical texts and discuss their language and content, and do unseen translations of texts for classroom discussion and correction.

CHIN 1014 Chinese Literature & Media

3 units - semester 2

3 contact hours per week

Available for Non-Award Study

Corequisite: ASIA 1101 compulsory for students majoring in Chinese

Assumed Knowledge: Students should have native or near native Chinese language proficiency; Students who have completed advanced level Chinese may enrol only after consultation and at discretion of course coordinator

Incompatible: Chinese IB, Chinese ISB, Chinese IIB, Chinese IISB, Chinese IIIB, Chinese IIISB, Chinese IVB, and students who have completed Chinese for Chinese Speakers IIA, IIB, IIIA and IIIB

Assessment: homework and quizzes 20%, essay 20%, oral presentation 10%, written exam (40%), class participation 10%

The course introduces a wide range of writings in Chinese literature and thought. The texts of diverse styles and genres are derived from Chinese literature and media sources including newspapers, journals, novels and other written or audio-video materials. The lectures will be arranged thematically with the topics such as ethics and literary values, imagination and literary reflections of the changing society, and the Chinese vernacular stories and Magic Realism. Methods of comparative literature will be applied in analysing and exploring the original texts and/or translations.

By the end of the course students will have acquired a further knowledge of literature, media and Chinese thought. It is anticipated that the students will have had their communication skills consolidated, their writing styles, analytical and critical abilities significantly improved.

LEVEL II

CHIN 2001 Chinese IIA

4 units - semester 1

5 contact hours per week

Prerequisite: CHIN 1002 (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 course the student will know about 650 Chinese characters and associated compounds related to contemporary China.

CHIN 2002 Chinese IIB

4 units - semester 2

5 contact hours per week

Prerequisite: CHIN 2001 (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 900 Chinese characters.

CHIN 2011 Chinese IISA

4 units - semester 1

5 contact hours per week

Prerequisite: CHIN 1012 (or equiv)

Assessment: listening & written tests, oral test, composition/short essay, final exam

This course aims to consolidate and extend the language skills developed at Chinese ISB 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 texts in modern Chinese using reference materials, should have an active vocabulary of around 1100 Chinese characters and should be able to discuss the content of the materials studied in Chinese.

CHIN 2012 Chinese IISB

4 units - semester 2

5 contact hours per week

Prerequisite: CHIN 2011 (or equiv)

Assessment: listening & written tests, oral test, composition/short essay, final exam

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 1300-1500 Chinese characters and should be able to discuss the content of the materials studied in Chinese.

LEVEL III

CHIN 3001 Chinese IIIA

6 units - semester 1

5 contact hours per week

Prerequisite: CHIN 2002 (or equiv)

Assessment: listening & written tests, oral test, composition/short essay, final exam

This course aims to consolidate and extend the language skills developed in Chinese IIB 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 texts in modern Chinese using reference materials, should have an active vocabulary of around 1100 Chinese characters and should be able to discuss the content of the materials studied in Chinese.

CHIN 3002 Chinese IIIB

6 units - semester 2

5 contact hours per week

Prerequisite: CHIN 3001 (or equiv)

Assessment: listening & written tests, oral test, composition/short essay, final exam

This course is a continuation of CHIN 3001 Chinese IIIA. 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 1300-1500 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

3 contact hours per week

Prerequisite: CHIN 2004 (or equiv)

Assessment: oral tests, translations, composition, short essays, exam

This course aims to consolidate and extend the language skills developed in CHIN 2004 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

3 contact hours per week

Prerequisite: CHIN 3002 (or equiv)

Assessment: oral tests, translations, composition, short essays on background to materials studied, exam

This course aims to consolidate and extend the language skills developed in CHIN 3003 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 3011
Chinese IIISA

6 units - semester 1

3 contact hours per week (plus 2 hours unsupervised)

Prerequisite: CHIN 2012 (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
Chinese IIISB

6 units - semester 2

3 contact hours per week (plus 2 hours unsupervised)

Prerequisite: CHIN 3011 (or equiv)

Assessment: continuous, final exam

This course is a continuation of CHIN 3011 Chinese IIISA. 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.

HONOURS

CHIN 4401A/B
Honours Chinese Studies

24 units - full year

Prerequisite: UG degree, Credit average in courses contributing to major in Chinese or equiv approved by Head of Discipline

Assessment: advanced level course in Chinese 25%, coursework topic in social science 25%, each with written work of approx. 7200-9000 words or equiv, 15000-17000 word thesis 50% (or 21000-24000 characters if written in Chinese)

Students wishing to take Honours in Chinese Studies are encouraged to consult the Honours Coordinator prior to commencing Level II/III courses to ensure that appropriate course choices are made in preparation for Honours. In order to fulfill the prerequisites, it is necessary to combine the study of language courses with that of Asian studies courses. Entry to Honours is subject to the approval of the Head of Discipline on advice from the Honours Committee. The Honours program consists of three elements: a research thesis, and 2 coursework topics which normally are an advanced level Chinese course, and theory and methodology in Asian studies. These written in Chinese are accepted. In some circumstances Honours Asian Studies can be studied part-time over two years or combined with Honours in another discipline. Students wishing to take Honours but who are without prerequisites are advised to consult the Honours Coordinator as soon as possible.

Classical Studies & Ancient Greek

LEVEL I

AGRE 1101
Ancient Greek I

3 units - semester 2

3 contact hours per week

Available for Non-Award Study

Prerequisite: AGRE 1102

Incompatible: not available to students with satisfactory level of achievement in Year 12 Ancient Greek or equiv

Assessment: semester tests 35%, end of semester exam 65%

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

4 contact hours per week, 3 extra hours per semester for tests

Available for Non-Award Study

Incompatible: not available to students with satisfactory level of achievement in Yr 12 Latin & Ancient Greek (or equiv) - students with only one of these languages may be allowed to enrol (apply to Classics language coordinator)

Assessment: 3 semester tests 30%, end of semester exams 70%

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.

CLAS 1001

Classics: From Egypt to Ancient Greece

3 units - semester 1

3 contact hours per week

Available for Non-Award Study

Assessment: online quiz 10%, 2 x 1200 word tutorial papers 50%, 2 hour exam 40%

This course is designed to be the first part of an introduction to the ancient world and its influence on Western civilisation. Students will be introduced to the literature and material remains of the distant past, 1500-480 BCE. The lectures will deal with Egypt, Mesopotamia, Syro-Palestine, Minoan Crete, Mycenaean Greece, Persia and early Greek states with a special focus on political power and religion.

CLAS 1002

Classics: From Ancient Greece to Rome

3 units - semester 2

3 contact hours per week

Available for Non-Award Study

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 and its influence on Western civilisation, but can be taken on its own, without having done the first part. Lectures will deal with the literature and material remains of Ancient Greece and Rome, from 5th Century BCE Athens to Constantine the Great, 4th Century CE with a special focus on political power and religion.

LEVEL II

AGRE 2002

Ancient Greek IIA

4 units - semester 1

3 contact hours per week

Available for Non-Award Study

Prerequisite: AGRE 1101 (or equiv) or satisfactory achievement in Yr 12 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 may be devoted to the reading of (modified) passages from Greek texts, including unseen comprehension.

AGRE 2003

Ancient Greek IIB

4 units - semester 2

3 contact hours per week

Available for Non-Award Study

Prerequisite: AGRE 2002

Assessment: 2 grammar tests during semester 10%, 2 end of semester 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 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 contact hours per week

Prerequisite: acceptance for Honours, AGRE 2102

Incompatible: not available to students with a satisfactory level of achievement in Year 12 Ancient Greek (or equiv)

Assessment: semester tests 35%, end of semester exam 65%

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 contact hours per week, 3 extra hours per semester for tests

Prerequisite: acceptance for Honours

Incompatible: not available to students with satisfactory level of achievement in Yr 12 Latin & Ancient Greek (or equiv) - students with only one of these languages may be allowed to enrol (apply to the Classics language coordinator)

Assessment: 3 semester tests 30%, end of semester exams 70%

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.

CLAS 2004

Classical Mythology

4 units - semester 1

3 contact hours per week

Prerequisite: 6 units Level I Humanities/Social Sciences

Incompatible: CLAS 3004

Assessment: 2 tutorial papers 45%, tutorial summaries 15%, 2 hour exam or 2500 word academic journal 40%

This course examines some of the functions of myth in Greek and Roman society. For illustrative purposes, some attention is paid to myths in other cultures, but the course is mainly concerned with the Greek and Roman material that deals with the Olympian goddesses, Apollo, Dionysus, Creation, the Golden Age, the Heroes and the Underworld. The relationship between myth and early philosophy and historiography will be considered, as will the role of myth today.

CLAS 2007

Archaeology of Rome

4 units - semester 1

2 lectures, 1 tutorial per week

Prerequisite: 6 units Level I Humanities/Social Sciences

Incompatible: CLAS 3007

Assessment: 3 x 1000 word tutorial papers 60%, 2 hour exam 30%, slide test 10%

How does archaeology contribute to our understanding of the development of Roman culture from its Iron Age origins until the 1st century A.D.? We will survey the trends of Roman art and architecture from the Etruscan period into the Early Empire, and also explore the major developments of Roman cities through the examples of the famous archaeological sites of Pompeii, Herculaneum and Ostia. Use will be made of material available in the Museum of Classical Archaeology. Attendance at all times is compulsory as all lectures contain slides which may be included in the end of semester slide test.

CLAS 2009

Alexander the Great & the Decline of Greece

4 units - semester 2

3 contact hours per week

Prerequisite: 6 units Level I Humanities/Social Sciences

Incompatible: CLAS 3009

Assessment: 2 hour exam 40%, 2 x 1300 word tutorial papers 40%, 1300 word seminar paper and presentation 20%

This course explores the history of Greece and the Aegean from the final years of the fifth century BC down to 323 BC; a period that takes us from the end of Athens' 'Golden Age' to the formation of the great kingdoms of the Hellenistic period. We present a general consideration of this crucial era in Greek history, as well as a more in-depth and detailed study of the careers of two notable Macedonian kings who emphatically imposed their authority on the Hellenic world. These monarchs were perhaps the most remarkable men in ancient history: Philip II, and the incomparable Alexander the Great. Exactly how father and son transformed a regional, minor kingdom into the greatest power in the ancient world is one of the most astonishing and gripping tales in history.

CLAS 2010

The Glory of Athens & the Shadow of Sparta

4 units - semester 1

3 contact hours per week

Prerequisite: 6 units Level I Humanities/Social Sciences

Incompatible: CLAS 3010

Assessment: 2 hour exam 40%, 2 x 1300 word tutorial papers 40%, 1300 word seminar paper and presentation 20%

This course explores the history of Greek civilisation from the late Archaic age down to the end of the fifth century BC (ca. 750-404 BC). One of the key periods in Western history, this era witnessed a truly extraordinary burst of creative activity in areas such as political theory, philosophical thought, drama, literature, sculpture and architecture. But what made this development possible, what lay behind the achievements of the ancient Greeks? In particular, we will consider the history of ancient Athens and Sparta - we shall see how the fierce rivalry that developed between the 'great city of culture' and the 'warrior state' both defined the age and still captivates today.

CLAS 2013 **Archaeology of the Roman Provinces**

4 units - semester 2

3 contact hours per week

Prerequisite: 6 units Level I Humanities/Social Sciences

Incompatible: CLAS 3013

Assessment: 3 x 1000 word tutorial papers 60%, 2 hour exam 30%, slide test 10%

The world of the Roman Empire was culturally and geographically diverse. Beginning with an overview of the major trends in artifacts, art and architecture in Rome itself, we will then explore the ways in which "mainstream" Roman material culture was absorbed or modified in the eastern and western provinces. Particular regional examples include Roman Gaul, Egypt and Syro-Palestine. Use will be made of the Museum of Classical Archaeology. The course is separate but complementary to Early Roman Archaeology, and a certain basic knowledge of the earlier period will be assumed. Students who have not taken the first semester course Early Roman Archaeology are therefore strongly advised to read the relevant chapters of D. Strong's Roman Art.

CLAS 2020 **Afterlife and Underworld in Antiquity**

4 units - semester 2

3 contact hours per week

Available for Non-Award Study

Prerequisite: 6 units Level I Humanities/Social Sciences

Incompatible: CLAS 3020

Assessment: 2 hour exam or 2500 word academic journal 40%, 2 x 1600 word tutorial papers 40%, seminar oral presentation 10% and participation 10%

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

Prerequisite: 6 units level I Humanities/Social Science, Level II Classical Archaeology or equiv. course (subject to approval of Course Coordinator)

Incompatible: CLAS 3021

Assessment: 3 practical tests 35%, written group report 30%, short critique 20%, individual database catalogue work 15%

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).

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 gain 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

AGRE 3002 **Ancient Greek IIIA**

6 units - semester 1

3 contact hours per week

Available for Non-Award Study

Prerequisite: AGRE 2003

Assessment: sentences/proses during semester 15%, 3 exams: preparation text & discussion text 30%, unseen translation & translation from English 40%, 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 IIIB**

6 units - semester 2

3 contact hours per week

Available for Non-Award Study

Prerequisite: AGRE 3002

Assessment: sentences/proses during semester 15%, 3 exams: preparation text and discussion text 30%, unseen translation & translation from English 40%, 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 IIISA**

6 units - semester 1

3 contact hours per week

Prerequisite: acceptance for Honours, AGRE 2101

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 may be devoted to the reading of (modified) passages from Greek texts, including unseen comprehension.

**AGRE 3012
Ancient Greek IIISB**

6 units - semester 2

3 contact hours per week

Prerequisite: acceptance for Honours, AGRE 3011

Assessment: 2 grammar tests during semester 10%, 2 end of semester exams: preparation text and discussion text 50%, 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.

**CLAS 3004
Classical Mythology**

6 units - semester 1

3 contact hours per week

Prerequisite: 8 units Level II Humanities/Social Sciences

Incompatible: CLAS 2004

Assessment: 2 hour exam or 3300 word academic journal 40%, 2 x 1500 word tutorial papers 30%, 2700 word essay 30%

This course examines some of the functions of myth in Greek and Roman society. For illustrative purposes, some attention is paid to myths in other cultures, but the course is mainly concerned with the Greek and Roman material that deals with the Olympian goddesses, Apollo, Dionysus, Creation, the Golden Age, the Heroeas and the Underworld. The relationship between myth and early philosophy and historiography will be considered, as will the role of myth today.

**CLAS 3007
Archaeology of Rome**

6 units - semester 1

2 lectures, 1 tutorial per week

Prerequisite: : 8 units Level II Humanities/Social Sciences

Incompatible: CLAS 2007

Assessment: 2 hour exam 30%, slide test 10%, 2 x 1300 word tutorial papers 30%, 3000 word essay 30%

How does archaeology contribute to our understanding of the development of Roman culture from its Iron Age origins until the 1st century A.D.? We will survey the trends of Roman art and architecture from the Etruscan period into the Early Empire, and also explore the major developments of Roman cities through the examples of the famous archaeological sites of Pompeii, Herculaneum and Ostia. Use will be made of material available in the Museum of Classical Archaeology. Attendance at all times is compulsory as all lectures contain slides which may be included in the end of semester slide test.

**CLAS 3009
Alexander the Great & the Decline of Greece**

6 units - semester 2

3 contact hours per week

Prerequisite: 8 units Level II Humanities/Social Sciences

Incompatible: CLAS 2009

Assessment: 2 hour exam 40%, 2 x 2000 word seminar papers (including oral presentation) 40%, 3000 word essay 20%

This course explores the history of Greece and the Aegean from the final years of the fifth century BC down to 323 BC; a period that takes us from the end of Athens' 'Golden Age' to the formation of the great kingdoms of the Hellenistic period. We present a general consideration of this crucial era in Greek history, as well as a more in-depth and detailed study of the careers of two notable Macedonian kings who emphatically imposed their authority on the Hellenic world. These monarchs were perhaps the most remarkable men in ancient history: Philip II, and the incomparable Alexander the Great. Exactly how father and son transformed a regional, minor kingdom into the greatest power in the ancient world is one of the most astonishing and gripping tales in history.

CLAS 3010 **The Glory of Athens & the Shadow of Sparta**

6 units - semester 1

3 contact hours per week

Prerequisite: 8 units Level II Humanities/Social Sciences

Incompatible: CLAS 2010

Assessment: 2 hour exam 40%, 2 x 2000 word seminar papers (including oral presentation) 40%, 3000 word essay 20%

This course explores the history of Greek civilisation from the late Archaic age down to the end of the fifth century BC (ca. 750-404 BC). One of the key periods in Western history, this era witnessed a truly extraordinary burst of creative activity in areas such as political theory, philosophical thought, drama, literature, sculpture and architecture. But what made this development possible, what lay behind the achievements of the ancient Greeks. In particular, we will consider the history of ancient Athens and Sparta - we shall see how the fierce rivalry that developed between the 'great city of culture' and the 'warrior state' both defined the age and still captivates today.

CLAS 3013 **Archaeology of the Roman Provinces**

6 units - semester 2

3 contact hours per week

Prerequisite: 8 units Level II Humanities/Social Sciences

Incompatible: CLAS 2013

Assessment: 2 hour exam 30%, slide test 10%, 2 x 1300 word seminar papers 30%, 3000 word essay 30%

The world of the Roman Empire was culturally and geographically diverse. Beginning with an overview of the major trends in artefacts, art and architecture in Rome itself, we will then explore the ways in which "mainstream" Roman material culture was absorbed or modified in the eastern and western provinces. Particular regional examples include Roman Gaul, Egypt and Syro-Palestine. Use will be made of the Museum of Classical Archaeology. The course is separate but complementary to Early Roman Archaeology, and a certain basic knowledge of the earlier period will be assumed. Students who have not taken the first semester course Early Roman Archaeology are therefore strongly advised to read the relevant chapters of D. Strong's Roman Art.

CLAS 3020 **Afterlife and Underworld in Antiquity**

6 units - semester 2

3 contact hours per week

Available for Non-Award Study

Prerequisite: 8 units Level II Humanities/Social Sciences

Incompatible: CLAS 2020

Assessment: 2 hour exam or 3300 word academic journal 40%, 3 x 1800 word seminar papers each 15%, seminar oral presentation and participation 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

Prerequisite: 8 units level II Humanities/Social Sciences including Level II Classical Archaeology or equiv course (subject to approval of Course Coordinator)

Incompatible: CLAS 2021

Assessment: 3 practical tests 30%, written group report 30%, short critique 5%, site diary 10%, individual database catalogue work 5%, 2500 word essay 20%

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 gain 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

AGRE 4401A/B **Honours Ancient Greek**

24 units - full year

Prerequisite: Bachelors degree, credit average in courses contributing to major in Ancient Greek (or approved equiv)

Assessment: texts assessed by exams &/or 6000 words of essay writing 33%; contrib. to common course, 3000 word seminar paper 12%; proses, exam on unseen & prose translation 13%; 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. 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. 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.

CLAS 4401A/B Honours Classical Studies

24 units - full year

Prerequisite: UG degree with credit average in courses in major in Classical Studies or equiv, usually successful completion of at least one yr's study in Ancient Greek &/or Latin - all approved by Head of Discipline

Assessment: coursework (2 topics) totalling 16000 words 50%, 15000-20000 word thesis 50%

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. Further details are also available on the Discipline's website and in Honours Handbook.

Students are also 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 first semester, students take two seminar courses:

Seminar A: Common Course

Assessment: 2 x ca 4000 word seminar papers, 25%

Seminar B: Specialist Courses

Assessment: written work totalling 8000-9000 words, 25%

Two half-semester, courses choices of topics will vary from year to year - students will be advised at the start of semester as to the topics. 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.

Research thesis

Assessment: 15000-20000 word thesis 50%

In second semester, students will complete a research thesis on a topic approved by the Discipline.

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 4000A/B Honours Commerce

24 units - full year

Restriction: approved Commerce Honours students only

Assessment: research project, presentation of thesis of approx. 10000 words 50% - thesis will form part of Honours examination

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 the approval of the Head.

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 semester 2 lectures. 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 1 or 2

2 lectures, 1 tutorial, 6 hours self-directed study 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 or 2

2 lectures, 2 hour tutorial, 8 hours self-directed study per week

Available for Non-Award Study

Assumed Knowledge: COMMLAW 1004

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 or 2

2 lectures, 2 hour tutorial, 8 hours self-directed study per week

Available for Non-Award Study

Prerequisite: COMMLAW 2000

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; exempt 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 work per week, 1 tutorial per fortnight

Available for Non-Award Study

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 - semester 1 or 2

16 hours lectures, 4 hours prac in first week, 6 hours lectures, 2 hours practical work subsequent weeks

Restriction: available as a bridging course to approved students only

Available for Non-Award Study

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

Assumed Knowledge: SACE Stage 2 Math. Studies

Incompatible: cannot be counted with COMP SCI 1004, COMP SCI 1000 or PURE MTH 1002

Assessment: written exam, compulsory projects, compulsory practical exams

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

Prerequisite: COMP SCI 1008

Incompatible: cannot be counted with COMP SCI 1004 I, COMP SCI 1000 or PURE MTH 1002

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 1 or 2

2 lectures, 4 hours practical work per week, 1 tutorial per fortnight

Available for Non-Award Study

Prerequisite: COMP SCI 1009 or COMP SCI 1007 or both COMP SCI 1000 & ELEC ENG 1004

Assumed Knowledge: Mathematics, as in MATHS 1011/1012 or MATHS 1008

Assessment: written exam, compulsory projects

Information storage representation, Memory organisation and hierarchy, Processor fundamentals, assembler programming, assembler operation, subroutine calling mechanisms, linking/loading, Input-output and device controllers requirements for supporting an operating system and device drivers.

COMP SCI 2002 Database and Information Systems

3 units - semester 1

2 lectures, 4 hours practical work per week, 1 tutorial per fortnight

Available for Non-Award Study

Prerequisite: COMP SCI 1009 or COMP SCI 1007 or both
COMP SCI 1000 & ELEC ENG 1004

Assumed Knowledge: Mathematics, as in MATHS 1011/1012 or
MATHS 1008

Incompatible: cannot be counted with previously offered Databases
and Information Systems

Assessment: written exam, compulsory projects

Topics covered include: Data Models: E-R Model,
relational model, SQL; Security and Integrity:
Authorisation and views, constraints, normalisation;
Database Connection: Java Database Connectivity,
Web databases using PHP; Storage and Access: File
organisation, indexing, query processing, optimisation;
Transactions, Concurrency and Recovery: Transactions,
ACID properties, locks, deadlock, logging, shadow paging.

COMP SCI 2003 Numerical Methods

3 units - Not offered in 2008

2 lectures, 4 hours practical work per week; 1 tutorial per fortnight

Available for Non-Award Study

Prerequisite: COMP SCI 1009 or COMP SCI 1007 or both
COMP SCI 1000 & ELEC ENG 1004

Assumed Knowledge: MATHS 1011/1012

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 per week; 1 tutorial per fortnight

Available for Non-Award Study

Prerequisite: COMP SCI 1009 or COMP SCI 1007 or both
COMP SCI 1000 & ELEC ENG 1004

Assumed Knowledge: Mathematics as in MATHS 1011/1012,
MATHS 1000A/B or MATHS 1008

Assessment: written exam, compulsory projects

Program development techniques including basic ideas of
correctness; representation of lists, stacks, queues, sets,
trees and hash 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 work per week, 1 tutorial per fortnight

Available for Non-Award Study

Prerequisite: COMP SCI 1009 or COMP SCI 1007 or both
COMP SCI 1000 & ELEC ENG 1004

Assumed Knowledge: COMP SCI 2004

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 per week; 1 tutorial per fortnight

Available for Non-Award Study

Prerequisite: COMP SCI 1009 or COMP SCI 1007 or both
COMP SCI 1000 & ELEC ENG 1004

Assumed Knowledge: COMP SCI 2004, Mathematics as in MATHS
1000A/B, MATHS 1011/1012 or MATHS 1008

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 practical work per week, 1 tutorial per fortnight

Available for Non-Award Study

Prerequisite: COMP SCI 1009 or COMP SCI 1007 or both
COMP SCI 1000 & ELEC ENG 1004

Assessment: written exam, compulsory projects and laboratories

Introduction to networks and digital communications
with a focus on Internet protocols: Network layer model,
Internet application architectures (client/server, peer-to-
peer) and protocols (HTTP-web, SMTP-mail, etc), Transport

protocols: UDP, TCP (reliable transport, congestion and flow control), IP (routing, addressing), Data Link layer operation (Ethernet, 802.11, PPP), selected current topics such as: security, multimedia protocols, Quality of Service, mobility, wireless networking, emerging protocols (IPv6).

COMP SCI 3002 Programming Techniques

3 units - semester 1

2 lectures, 4 hours practical work per week, 1 tutorial per fortnight

Available for Non-Award Study

Prerequisite: COMP SCI 1009 or COMP SCI 1007 or both
COMP SCI 1000 & ELEC ENG 1004

Assumed Knowledge: COMP SCI 2004 Data

Incompatible: cannot be counted with 1006

Assessment: written exam, compulsory projects

Program development: methods of specification, design, implementations, testing and debugging, case studies, Graphs: construction, traversal, topological sorting, applications. Sorting and searching: internal and external algorithms, correctness and complexity analysis.

COMP SCI 3004 Operating Systems

3 units - semester 2

2 lectures, 4 hours practical work per week, 1 tutorial per fortnight

Available for Non-Award Study

Prerequisite: COMP SCI 1009 or COMP SCI 1007 or both
COMP SCI 1000 & ELEC ENG 1004

Assumed Knowledge: COMP SCI 2000 & COMP SCI 2004

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 per week, 1 tutorial per fortnight

Available for Non-Award Study

Prerequisite: COMP SCI 1009 or COMP SCI 1007 or both
COMP SCI 1000 & ELEC ENG 1004

Assumed Knowledge: COMP SCI 2000 & COMP SCI 2004

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, 6 hours practical work per week, weekly project meeting

Available for Non-Award Study

Prerequisite: COMP SCI 1009 or COMP SCI 1007 or both
COMP SCI 1000 & ELEC ENG 1004

Assumed Knowledge: COMP SCI 3002, COMP SCI 2004

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 per week, 1 tutorial per fortnight

Available for Non-Award Study

Prerequisite: COMP SCI 1009 or COMP SCI 1007 or both
COMP SCI 1000 & ELEC ENG 1004

Assumed Knowledge: COMP SCI 2004

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: Neural networks. Rule based systems; forward and backward chaining methods. AI systems: ANALOGY, MYCIN, GPS, Xcon. Fuzzy systems. Computer vision, Evolutionary computation: genetic algorithms, evolution strategies, genetic programming.

COMP SCI 3009 Advanced Programming Paradigms

3 units - semester 1

2 lectures, 4 hours practical work per week, 1 tutorial per fortnight

Available for Non-Award Study

Prerequisite: COMP SCI 1009 or COMP SCI 1007 or both
COMP SCI 1000 & ELEC ENG 1004

Assumed Knowledge: COMP SCI 2004

Assessment: written exam, compulsory projects

A selection of topics from the following: Fundamental models of computation, illustrated by the lambda calculus. Different approaches to programming: functional and logic paradigms. Fundamental concepts of programming languages, including abstraction, binding,

parameter passing, scope, control abstractions.

Programming models expressed via Scheme: substitution

model; map/reduce programming; environment model; object oriented model; a compositional programming model. Introduction to parallel computing: data parallelism, Java threads, and relationship to distributed computing. Examples in application: map/reduce programming in Google; flow-oriented programming for composition of web-services. Ontologies in the semantic web.

COMP SCI 3012 Distributed Systems

3 units - semester 1

2 lectures, 4 hours practical work per week, 1 tutorial per fortnight
Available for Non-Award Study

Prerequisite: COMP SCI 1009 or COMP SCI 1007 or both
COMP SCI 1000 & ELEC ENG 1004

Assumed Knowledge: COMP SCI 2000, COMP SCI 2004, COMP SCI 3001; exposure to SQL programming - eg, COMP SCI 2002

Incompatible: cannot be counted with COMP SCI 3012

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 work per week, 1 tutorial per fortnight
Available for Non-Award Study

Prerequisite: COMP SCI 1009, COMP SCI 1007 or both
COMP SCI 1000 & ELEC ENG 1004

Assumed Knowledge: COMP SCI 2004, COMP SCI 2006

Assessment: written exam, compulsory projects

Event driven paradigm: Finite State Automata, their behaviour and implementation. Correspondence with regular expressions. Examples of embedded systems. Introduction to interconnected state machines, Petri Nets, and concurrency. Concepts of state-space and relationship to testing.

Building Graphical User Interfaces: model view controller paradigm. Introduction to design patterns for managing complexity in large systems. Building GUIs with the Java Swing library. Comparison/contrast with other GUI toolkits. Ease of use and human-computer interaction issues.

Practical projects cover the use of FSAs for control logic and GUI design.

COMP SCI 3014 Computer Graphics

3 units - semester 2

2 lectures, 4 hours practical work per week, 1 tutorial per fortnight
Available for Non-Award Study

Prerequisite: COMP SCI 1009 or COMP SCI 1007 or both
COMP SCI 1000 & ELEC ENG 1004

Assumed Knowledge: PURE MTH 2000 or MATHS 1012, COMP SCI 2005

Incompatible: cannot be counted with COMP SCI 7016

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. Level of detail. Raytracing. Animation. Particles. Implementation Efficiency.

COMP SCI 3015A/B Software Engineering Group Project 1

6 units - full year

8 hours practical work per week, weekly project meetings

Incompatible: Students in specified programs only

Assessment: Written exam and compulsory group project

Students will undertake a year long group project.

LEVEL IV

COMP SCI 4000 Software Architecture

3 units - Not offered in 2008

2 hours lectures, 4 hours practical work per week

Available for Non-Award Study

Assessment: Exam and/or assignments

Topics in Software Architecture approved by Head of School.

COMP SCI 4001A/B Software Engineering Group Project 2

8 units - full year

12 hours practical work per week

Incompatible: Students in specified programs only

Assessment: Performance during project work, written reports, seminar presentations

The project component of the course encompasses a full-year group based project. The project will be of a bigger scale than the third year project, consisting of groups of 12-16 students. This will expose the students to extra challenges associated with group communication, and require that they further develop their planning and management skills.

COMP SCI 4022 **Computer Vision**

3 units - semester 1

2 hours lectures, 4 hours practical work per week

Available for Non-Award Study

Assessment: exams and/or assignments

Over the last 30 years, researchers in artificial intelligence have endeavoured to develop computers with the capacity to “see” the world around them. This course aims to convey the nature of some of the fundamental problems in vision, and to explain a variety of techniques used to overcome them. Emphasis is placed on aspects of 3-D vision and the gaining of practical experience in image-processing via TV-camera facilities. Various vision problems are considered, including: the detection of edges in images, and the accumulation of edge data to form lines; the use of a stereo image pair to derive 3D surface information; the exploitation of image shading (or intensity variation) to obtain surface normal data; motion detection in video images; forming image mosaics; tracking objects in video; video surveillance techniques; Marr’s theory as a framework for visual information processing; object recognition. Several assignments enable the student to gain practical experience in aspects of the above.

COMP SCI 4023 **Software Process Improvement**

3 units - semester 2

2 hours lectures, 4 hours practical work per week

Available for Non-Award Study

The course introduces students to elements of the Software Engineering Institute’s Personal Software Process, PSP. The PSP is introduced in increasing levels of sophistication with the essential elements illustrated by programming assignments and report writing.

COMP SCI 4041 **Language Translators**

3 units - semester 1

2 hours lectures, 4 hours practical work per week

Available for Non-Award Study

Incompatible: cannot be counted with COMP SCI 3011

Assessment: exams and/or assignments

The structure of compilers: lexical analysis, syntax analysis (top-down and bottom-up techniques), 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 4044 **Computer System Security**

3 units - Not offered in 2008

2 hours lectures, 4 hours practical work per week

Available for Non-Award Study

Assessment: exams and/or assignments

This course provides an introduction to computer system security at all levels. The course includes: computer security models, hardware systems, operating system mechanisms and policy, network security, and application security. The course will also cover some of the current security threats. Introduction to Computer Security: Threats, vulnerabilities, controls; risk; cost; method, opportunity, motive; technical, administrative, physical controls; prevention, detection, deterrence. Basic cryptography terms, symmetric and asymmetric cyphers; Cryptographic protocols: digital signatures, key exchange, certificates, cryptographic hash functions. Security Models: Introduction to Military Security; Bell La Padula models, BIPA. Security in programs: Flaws - Malicious code: viruses, Trojan horses, worms; Program flaws: buffer overflows, time-of-check to time-of-use flaws, incomplete mediation. Defenses - Software development controls, Testing techniques. Security in Operating Systems: Memory, time, file, object protection requirements and techniques; Protection in contemporary operating systems. Identification and authentication: Identification goals; Authentication requirements; human authentication, machine authentication, authentication technologies. Trusted operating systems: Assurance; trust; Design principles; Evaluation criteria; Evaluation process. Network security: Threats - Network technology; eavesdropping, spoofing, modification, denial of service attacks. Controls - architectural controls; cryptographic controls; technological controls; administrative and physical controls; overlapping controls. Technologies - Firewalls; Intrusion detection systems; Monitoring systems; Virtual private networking; Remote authentication systems. Management of security: Security policies; Risk analysis; Physical threats and controls.

COMP SCI 4054 **High Integrity Software Engineering**

3 units - semester 1

2 hours lectures, 4 hours practical work per week

Available for Non-Award Study

Assessment: Exams and/or assignments

This course introduces students to high-integrity software engineering, with a focus on the development of safety-critical software. Lectures will cover hazard analysis, risk analysis, safety-critical software, formal methods, safety cases and safety management. Students will apply a variety of practical techniques in assignments.

COMP SCI 4077 **System Modelling and Simulation**

3 units - semester 1

2 lectures, 1 tutorial, 4 hours practical work per week

Available for Non-Award Study

Assessment: exams and/or assignments

This course concerns techniques for the modelling and simulation of complex systems using a variety of methods and software tools. Students are introduced to the packages Matlab and Simulink and are taken through a study of the techniques used in these and other sophisticated modelling packages to solve common

engineering problems. The Matlab programming language is used extensively and students learn to program their own solutions for these problems. In addition to studying the equations for these models and their solutions, students study the stability, accuracy and reliability of the solution methods.

COMP SCI 4094 **Distributed Databases and Data Mining**

3 units - semester 1

24 hrs lectures, 48 hours practical

Available for Non-Award Study

Assumed Knowledge: knowledge of database systems equivalent to that taught in Database and Information Systems

Assessment: assignment 30%, project report 40%, project presentation 20%, participation 10%

Topics covered in this course include: Distributed database system architecture, Distributed database system design, Distributed query processing and optimisation, Distributed transaction management, Data warehousing and OLAP technology, Association analysis, Classification and prediction, Cluster analysis, Mining complex types of data.

HONOURS

COMP SCI 4002A/B **Software Engineering Honours Project**

8 units - full year

320 hours practical work

Incompatible: Students in specified programs only

Assessment: Performance during project work, written reports, seminar presentations

A major Software Engineering Project as approved by Head of School

COMP SCI 4999A/B **Honours Computer Science**

24 units - full year

8 lectures, 25 hours practical work per week

Prerequisite: degree & major in Comp.Sc; passes in Level II & III courses in Mathematical & Computer Sciences approved by Head of School - students with a different background should apply to Head of School

Assumed Knowledge: various Level II/III Computer Science courses (or year 2 courses & year 3 options if completed before 1989) depending on composition of Honours program

Assessment: performance in six lecture courses 60%, major project 40%

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

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 2006 **Business Finance II**

4 units - semester 1 or 2

2 lectures, 1 tutorial, 8 hours self-directed study per week

Available for Non-Award Study

Assumed Knowledge: ECON 1008 or STATS 1000, ECON 1004 ACCTING 1002 or ACCTING 1005; or equiv

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.

CORPFIN 2008 **Financial Institutions Management II**

4 units - semester 2

2 hour lecture, 1 hour tutorial per week

Available for Non-Award Study

Assumed Knowledge: ECON 1008, ECON 1000, ECON 1009

Assessment: group assignments worth 40%, final exam 60%

This course provides an introduction to the management of financial institutions and intermediaries. The course focuses on the importance of ensuring good organisational functioning within institutions to manage the varied types of risk that they may be exposed to. Students are first introduced to the construct of the firm as a legal entity, and how financial institutions have specific requirements that relate to this.

The course then examines the principles of the theory and practice of effective organisational structure and policies for successful risk management and how to manage the inter-relationships that are inherent between departments. Students are also introduced to international standards of banking practice and how they impact the functioning of the institutions plus how to define and measure various types of risk these institutions can be exposed to.

LEVEL III

CORPFIN 3008

Corporate Finance Theory III

4 units - semester 2

2 lectures, 1 tutorial, 8 hours self-directed study per week

Available for Non-Award Study

Prerequisite: CORPFIN 2006

Assumed Knowledge: SACE Stage 2 Mathematical Studies, ACCTING 1002, ECON 2008/2012

Assessment: assignments, tests, exam, as determined at first class

This course looks at theoretical issues in corporate finance and their practical application. Topics include capital structure and the preferences for debt or equity as suggested by agency models, including leases, pecking order theory and timing models; dividend policy; applications of option pricing theory including real options, convertible securities and executive compensation; initial public offerings; internal capital markets and diversification.

CORPFIN 3009

Portfolio Theory and Management III

4 units - semester 1

2 lectures, 1 tutorial, 8 hours self-directed study per week.

Available for Non-Award Study

Prerequisite: CORPFIN 2006

Assumed Knowledge: SACE Stage 2 Mathematical Studies, ECON 2008/2012

Assessment: tests, exam, assignment, as determined at first class

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, tutorial, 8 hours self-directed study per week.

Available for Non-Award Study

Prerequisite: CORPFIN 2006

Assumed Knowledge: SACE Stage 2 Math. Studies, CORPFIN 2006, ECON 2008/2012; discrete & continuous compounding, how financial markets operate, stock & bond price valuation procedures, algebra & simple differentiation

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, tutorial, 8 hours self-directed study per week.

Available for Non-Award Study

Prerequisite: CORPFIN 2006

Assumed Knowledge: SACE Stage 2 Mathematical Studies, ACCTING 1002, ECON 2008/2012

Assessment: exam, assignment/test as determined at first class

This course examines techniques and issues in corporate finance with a focus on corporate investment decisions. The course covers several aspects of valuation in a corporate setting: estimation of free cash flow, stock valuation along with recognition of growth opportunities, risk management strategies, estimation of beta using online data, and specifying market scenarios to identify sustainable growth outcomes when evaluating investment proposals. Further topics include merger and acquisition strategies, examination of options embedded in corporate capital structures, incentive-aligning compensation including executive stock options, and techniques for measuring financial performance including Economic Value Added.

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

Restriction: BDS students only

Corequisite: DENT 1002AHO/BHO, DENT 1003AHO/BHO, DENT 1004AHO/BHO

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 I**

8 units - full year

7 hours per week including clinical, practical sessions

Restriction: BDS students only

Corequisite: DENT 1001AHO/BHO, DENT 1003AHO/BHO, DENT 1004AHO/BHO

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

Restriction: BDS students only

Corequisite: DENT 1001AHO/BHO, DENT 1002AHO/BHO, DENT 1004AHO/BHO

Assessment: will include tutorials, laboratory exercises, written assignments, tests & 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 prerequisite 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

Restriction: BDS students only

Corequisite: DENT 1001AHO/BHO, DENT 1002AHO/BHO, DENT 1003AHO/BHO

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. Evidenced 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

Restriction: BDS students only

Prerequisite: DENT 1001A/BHO, DENT 1000HO

Corequisite: DENT 2002AHO/BHO, Dent 2003 AHO/BHO, DENT 2004AHO/BHO

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.

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 epithelium and connective tissue; the biochemistry of calcified tissues - bone, dentine, cementum and enamel; 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 Practice II

8 units - full year

12 hours per week including clinical, practical, resource sessions

Restriction: BDS students only

Prerequisite: DENT 1002A/BHO, DENT 1000HO

Corequisite: DENT 2001AHO/BHO, Dent 2003 AHO/BHO, DENT 2004AHO/BHO

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

Restriction: BDS students only

Prerequisite: DENT 1003A.BHO, DENT 1000HO

Corequisite: DENT 2001AHO/BHO DENT 2002 AHO/BHO, DENT 2004AHO/BHO

Assessment: will include written exams, case scenarios, problem-based learning, tutorial and 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 - semester 1

3 hours per week

Restriction: BDS students only

Prerequisite: DENT 1004A/BHO, DENT 1000HO

Corequisite: DENT 2001AHO/BHO, Dent 2002 AHO/BHO, DENT 2003AHO/BHO

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. Biostatistics: 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 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)

Restriction: BDS students only

Prerequisite: DENT 2001AHO/BHO, DENT 2000HO

Corequisite: DENT 3002 AHO/BHO, DENT 3003AHO/BHO

Assessment: short tests, journal review, practical and clinical exercises, problem-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

16 hours per week (approx), including class meetings, laboratory sessions, clinic sessions

Restriction: BDS students only

Prerequisite: DENT 2002 AHO/BHO, DENT 2001AHO/BHO, DENT 2003AHO/BHO, DENT 2000HO

Corequisite: DENT 3001AHO/BHO, DENT 3003AHO/BHO

Assessment: tests of understanding, assignments, laboratory exercises, clinical work, written exam.

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 a laboratory program in removable prosthodontics, endodontic and in cast gold restorations. Topics include: patient assessment for local anaesthesia, pharmacological aspects of local anaesthesia, basic principles of local anaesthesia; aspects of basic and 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; periapical and panoramic radiography.

DENT 3003AHO/BHO

Diseases and Disorders of the Body IIID

6 units - full year

6 hours per week

Restriction: BDS students only

Prerequisite: DENT 2003AHO/BHO, DENT 2000HO

Corequisite: DENT 3001AHO/BHO, DENT 3002 AHO/BHO

Assessment: two written exams, end of year exam

This stream introduces students to pathology, microbiology and immunology 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

Restriction: BDS students only

Prerequisite: DENT 3001AHO/BHO, DENT 3000HO

Corequisite: DENT 4002AHO/BHO, DENT 4003AHO/BHO

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 pathological 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

28 contact hours per week, including class meetings, laboratory & clinical sessions

Restriction: BDS students only

Prerequisite: DENT 3002A/BHO, DENT 3000HO

Corequisite: DENT 4001A/BHO, DENT 4003AHO/BHO

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 stream 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

30 hours total for one option

Restriction: BDS students only

Prerequisite: DENT 3000HO

Corequisite: DENT 4001, DENT 4002

Assessment: by supervisors/presenters, as per the option outline

This stream is designed to give students the opportunity to explore selected 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, or exchange visits to other dental schools or dental organisations. Students may undertake established options, or develop individual options with guidance from the Stream Coordinator, and are strongly advised to discuss such a

proposed selective option with the coordinator as soon as possible.

DENT 4100AHO/BHO Honours Dentistry

24 units - full year

Restriction: B.Sc.Dent. Honours students only

Candidates may, with the approval of the Head of Department, enrol in the Honours Dentistry program after they have successfully completed third year, or after they have obtained the degree of Bachelor of Dental Surgery or equivalent. Under certain circumstances, candidates who have obtained a 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), 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)

Restriction: available to BDS students only

Prerequisite: DENT 4001AHO/BHO, DENT 4000HO

Corequisite: DENT 5002 AHO/BHO, DENT 5003 AHO/BHO

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

Hours to be determined

Restriction: BDS students only

Prerequisite: DENT 4002A/BHO, DENT 4000HO

Corequisite: DENT 5001AHO/BHO, DENT 5003 AHO/BHO

Assessment: self assessment, tutor assessment, written clinical assessments - minimum standards required in each discipline to satisfactorily 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

90hrs total for two options, some aspects may be taken during semester breaks or semester at times convenient to the student and presenter.

Restriction: BDS students only

Prerequisite: DENT 4000HO, some clinical selectives - students to have satisfactorily passed prerequisite level of knowledge

Corequisite: DENT 5001HO, DENT 5002HO

Assessment: determined by supervisor/presenters as per option outline

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, with a scholarly component to each option. 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.

Students may undertake established options, or develop individual options with guidance from the Stream Coordinator, and are strongly advised to discuss such a proposed selective option with the coordinator as soon as possible.

Design Studies

LEVEL I

DESST 1001

Special Topic in Design Studies IB

3 units - semester 1

Up to 3 hours lectures/tutorials/seminars per week

Restriction: B.Des.St.students - other students should check their Academic Program Rules re eligibility

Quota will apply

Assessment: assignments, projects

Course description will be provided by the School when specialist teaching is available.

DESST 1007

Special Topic in Design Studies IA

3 units - not offered in 2008

Up to 3 hours lectures/tutorials/seminars per week

Restriction: B.Des.St.students - other students should check their Academic Program Rules re eligibility

Quota will apply

Assessment: assignments, projects

Course description will be provided by the School when specialist teaching is available.

DESST 1009

Art History and Theories IA

3 units - semester 2

Up to 2 lectures, 1 tutorial per week; occasional excursions

Restriction: B.Des.St.students - other students should check their Academic Program Rules re eligibility

Quota will apply

Incompatible: Art History & Theories or DESST 2033

Assessment: slide test 40%, essays 35%, 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 1019

Art History and Theories IB

3 units - semester 1

Up to 2 lectures, 1 tutorial per week; occasional excursions

Restriction: B.Des.St.students - other students should check their Academic Program Rules re eligibility

Quota will apply

Incompatible: DESST 2032

Assessment: slide test 40%, essays 35%, 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 1026

Special Topic in Design Studies IC

3 units - semester 2

Up to 3 hours lectures/tutorials/seminars per week

Restriction: 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.

DESST 1027

Human Environments: Design and Representation

6 units - semester 1

Up to 2 hours of lectures, up to 4 hours studio/workshop/tutorial per week

Restriction: B.Des.St.students - other students should check their Academic Program Rules re eligibility

Quota will apply

Incompatible: both DESST 1023 & DESST 1024

Assessment: Design work, assignments, class & tutorial participation

This course provides an introduction to the fundamentals of design with particular reference to the built environment including the relationships of climate/site, culture/history and technology, with the making of projects, and strategies for designing. The course engages students in active learning through research and project work, both individually and in collaboration with others, to translate ideas and concepts into form in a meaningful way. The course emphasises developing design communication skills: hand/manual and digital drawing, oral presentation with appropriate visual aids, and written communication.

DESST 1028

Natural and Urban Systems

3 units - semester 2

Up to 3 hours lecture/workshop per week

Restriction: B.Des.St.students - other students should check their Academic Program Rules re eligibility

Quota will apply

Incompatible: DESST 1006

Assessment: essays/reports

This course provides an introduction to: the concept of systems thinking, including 'natural' and human-made systems with an emphasis upon the built environment context; sciences of landscape, climate, biology, ecology, wetlands, arid landscapes, soil and water eco-units; particular characteristics of Australian and local 'natural' systems; relationship between 'natural' systems and design/construction as well as their impacts on each other; and the concept of sustainability of environmental systems. The course also provides an introduction to the notion of different stakeholders in natural and constructed environments, their needs and aspirations. The course develops effective communication skills especially through oral presentation with appropriate visual aids, and written communication following academic protocols.

DESST 1029

Construction and Design: Theories and Practice

6 units - semester 2

Up to 3 hours of lectures and 3 hours studio/tutorial per week

Restriction: B.Des.St.students - other students should check their Academic Program Rules re eligibility

Quota will apply

Incompatible: Both DESST 1008 & DESST 1014

Assessment: design projects, assignments

This course provides an introduction to the theories and practice of construction. Building and landscape constructions are investigated in relation to the cultural, technological and historical context in which they appear. The course introduces the students to materials and materiality, structural behaviour and construction techniques, and a small planting palette including the plants' performance, behaviour, form and maintenance. It also investigates the relationship between client, architect, engineer and builder.

Typical theoretical and practical work in this course includes: interpreting theoretical texts concerned with technological issues; writing concise theoretical texts; design of a small-scale site specific project; building scale models of a small-scale building and its site/topography; building scale models of construction details; reading scaled/working drawings; and representing ideas by applying the conventions used in professional graphical representations (ie. floor/site plans, elevation, section, detail, axonometric, sketch perspective).

DESST 1030

History of Settlements

3 units - semester 1

Up to 3 hours of lectures and tutorials per week

Restriction: B.Des.St.students - other students should check their Academic Program Rules re eligibility

Quota will apply

Incompatible: DESST 1018

Assessment: assignments, quizzes

This course introduces the historical and socio-cultural context as well as related design theories of human settlements prior to the 19th century. It fosters a global perspective as well as awareness of particular Australian and local manifestations.

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 the developments of human settlements. Practical exercises stimulate skills in research, critical analysis and debate, and academic writing protocols for short analytical texts.

DESST 1031 **Special Topic in Design Studies ID**

3 units - semester 2

Up to 3 hours lectures/tutorials/seminars per week

Restriction: B.Des.St.students - other students should check their Academic Program Rules re eligibility

Quota will apply

Assessment: assignments, projects

Course description will be provided by the School when specialist teaching is available.

DESST 1032 **Imaging Our World**

3 units - semester 1

Up to 3 hours lectures/tutorials/workshops per week

Restriction: B.Des.St students, Bachelor of Computer Graphics students

Quota will apply

Incompatible: DESST 1007

Assessment: assignments, projects

Cities are no longer just built, products are no longer just made, lives are no longer just lived, all are imaged. Imaging Our World is about the representation and communication of images with digital media. Both theory and practical work will explore these concepts through case studies and projects. Students will communicate their work through print and digital graphics.

LEVEL II

DESST 2000 **Special Topic in Design Studies IIC**

4 units - semester 1

Up to 4 hours lectures/seminars/studios per week, field study trips

Restriction: B.Des.St.students - other students should check their Academic Program Rules re eligibility

Quota will apply

Assessment: assignments, projects

Course description will be provided by the School when specialist teaching is available.

DESST 2003 **Islamic Architecture and Gardens II**

4 units - not offered in 2008

Up to 2 lectures, 2 tutorials per week

Restriction: B.Des.St.students - other students should check their Academic Program Rules re eligibility

Quota will apply

Incompatible: DESST 3023

Assessment: assignments

This is an introductory course to the history, themes and forms of Islamic architecture and gardens in both traditional and contemporary contexts. It introduces students to the historical development of the constructed environment in the Islamic world, to key building types, and to the elements of place making in urban settings. It discusses order in space, spatial organisation, and

spatial sensibility in the Islamic tradition as well as the religious and socio-cultural meanings associated with place making. It examines in some detail the notion of symbolism and the spiritual significance of form and space.

DESST 2006 **Special Topic in Design Studies IIB**

4 units - semester 2

Up to 4 hours lectures/seminars/studios per week, field study trips

Restriction: B.Des.St.students - other students should check their Academic Program Rules re eligibility

Quota will apply

Assessment: assignments, projects

Course description will be provided by the School when specialist teaching is available.

DESST 2010 **Conservation in the Built Environment II**

4 units - semester 2

Up to 4 hours per week

Restriction: B.Des.St.students - other students should check their Academic Program Rules re eligibility

Quota will apply

Assumed Knowledge: DESST 1027

Incompatible: DESST 3000

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 - not offered in 2008

Up to 2 lectures, 2 tutorials per week

Restriction: B.Des.St.students - other students should check their Academic Program Rules re eligibility

Quota will apply

Incompatible: Asian Architecture & Landscapes II/III (1996 only) or DESST 3012

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 - not offered in 2008

Up to 4 hours lectures/seminars/studios per week, field study trips

Restriction: B.Des.St.students - other students should check their Academic Program Rules re 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 - not offered in 2008

Up to 4 hours lectures/seminars/studios per week, field study trips

Restriction: B.Des.St.students - other students should check their Academic Program Rules re eligibility

Quota will apply

Assessment: assignments, projects

Course description will be provided by the School when specialist teaching is available.

DESST 2022

Special Topic in Design Studies IIA

4 units - semester 1

Up to 4 hours lectures/seminars/studios per week, field study trips

Restriction: B.Des.St.students - other students should check their Academic Program Rules re 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 1

Up to 2 lectures, 1 tutorial hour per week, occasional excursions

Restriction: B.Des.St.students - other students should check their Academic Program Rules re eligibility

Quota will apply

Incompatible: Art History & Theories, or DESST 1019

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 2

Up to 2 lectures, 1 tutorial hour per week, occasional excursions

Restriction: B.Des.St.students - other students should check their Academic Program Rules re eligibility

Quota will apply

Incompatible: Art History & Theories, or DESST 1019

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 2036

Technology in Design

8 units - semester 1

Up to 8 hours per week including lectures, studios, tutorials

Restriction: B.Des.St.students - other students should check their Academic Program Rules re eligibility

Quota will apply

Assumed Knowledge: Level I B.Des.St. core courses

Incompatible: Both DESST 2005, DESST 2034

Assessment: design projects, assignments, quizzes

This course explores the environmental and technological aspects of design of the built environments. Key topics include climate; thermal performance; thermal comfort; natural light; noise control; building structures; construction materials, techniques and processes; and the interrelationships between plants, hard landscape and domestic scale building construction. The course also introduces students to related Standards, Codes and Regulations on design. The projects encourages innovative and investigative designs that integrate environmental, human and technical issues, with the use

of different manual and digital techniques to express design as well as to apply the conventions of technical documentation.

DESST 2037

Cultures, Histories and Designed Environments

8 units - semester 2

Up to 8 hours per week including lectures, studios, tutorials

Restriction: B.Des.St.students - other students should check their Academic Program Rules re eligibility

Quota will apply

Assumed Knowledge: Level I B.Des.St. core courses

Incompatible: Both DESST 2016, DESST 2023

Assessment: design projects, assignments

This course is concerned with histories and theories of architecture, landscape architecture, and urban design, and related issues in design discourse since the 19th century. Formal and theoretical developments are placed in a coherent historical framework through which further spatial and cultural dimensions may be better understood. While focussing on the global reception and resistance to Modern (European) ideas and forms, the course also addresses issues of cultural difference, including differences in design disciplines and their respective (sub-cultures, and different social backgrounds, needs, preferences, and how these are reflected and responded to in the development of designed environments and urban form. Coursework entails both written and design assignments. These may include critical explorations of specific design theories and relationships through short analytical texts and three-dimensional compositions, as well as practical translations of theory into built form through the design of small buildings and landscapes in urban context.

DESST 2038

Digital Media II

4 units - semester 2

Up to 4 hours lectures/digital studio per week

Restriction: B.Des.St.students - other students should check their Academic Program Rules re eligibility

Quota will apply

Assumed Knowledge: DESST 1023 or DESST 1027

Incompatible: DESST 2008, DESST 2025

Assessment: digital design projects, 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.

LEVEL III

DESST 3000

Conservation in the Built Environment III

6 units - semester 2

Up to 5 hours per week

Restriction: B.Des.St.students - other students should check their Academic Program Rules re eligibility

Quota will apply

Assumed Knowledge: DESST 1027

Incompatible: DESST 2010

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 3005

Special Topic in Design Studies IIIA

6 units - semester 1

Up to 5 hours a week

Restriction: B.Des.St.students - other students should check their Academic Program Rules re eligibility

Quota will apply

Assessment: assignments, projects

Course description will be provided by the School when specialist teaching is available.

DESST 3012

Colonial and Contemporary Issues in South Asian Architecture III

6 units - not offered in 2008

Up to 2 lectures, 3 tutorials a week

Restriction: B.Des.St.students - other students should check their Academic Program Rules re eligibility

Quota will apply

Incompatible: Asian Architecture & Landscapes II (1996 only) or DESST 2012

Assessment: 2 tutorial assignments 40%, 5000 word final 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 3016
Special Topic in Design Studies IIIC

6 units - semester 1

Up to 5 hours a week

Restriction: B.Des.St.students - other students should check their Academic Program Rules re 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 - not offered in 2008

Up to 5 hours a week

Restriction: B.Des.St.students - other students should check their Academic Program Rules re 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 - not offered in 2008

Up to 5 hours a week

Restriction: B.Des.St.students - other students should check their Academic Program Rules re eligibility

Quota will apply

Assessment: assignments, projects

Course description will be provided by the School when specialist teaching is available.

DESST 3023
Islamic Architecture and Gardens III

6 units - not offered in 2008

Up to 2 lectures, 3 hours of tutorials a week

Restriction: B.Des.St.students - other students should check their Academic Program Rules re eligibility

Quota will apply

Incompatible: DESST 2003

Assessment: assignments

This is an introductory course to the history, themes and forms of Islamic architecture and gardens in both traditional and contemporary contexts. It introduces students to the historical development of the constructed environment in the Islamic world, to key building types, and to the elements of place making in urban settings. It discusses order in space, spatial organisation, and spatial sensibility in the Islamic tradition as well as the religious and socio-cultural meanings associated with place making. It examines in some detail the notion of symbolism and the spiritual significance of form and space.

DESST 3024
Special Topic in Design Studies IIIB

6 units - semester 2

Up to 5 hours a week

Restriction: B.Des.St.students - other students should check their Academic Program Rules re eligibility

Quota will apply

Assessment: assignments, projects

Course description will be provided by the School when specialist teaching is available.

DESST 3027
Design for Sustainable Community

6 units - semester 1

Up to 6 hours lectures/seminar/studios/tutorial per week - field camp may be required

Restriction: B.Des.St.students - other students should check their Academic Program Rules re eligibility

Quota will apply

Assumed Knowledge: Level II Des.St. core courses

Incompatible: DESST 3011 or DESST 3027

Assessment: main project, assignments

This course centres upon 'place-making' in urban and rural settled environments. It focuses on the diversity of philosophical positions which inform current contemporary 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. Topics typically include introduction to strategic and statutory planning and legislative frameworks, various 'sustainable' environmental systems, economic feasibility study of a design proposal, various standards and codes, and international agreements and impact on local practices. In teamwork and individual work students will explore an existing development and develop a 'sustainable' design/redemption proposal, presented in selective and concise graphical presentation using manual and digital techniques, as well as in concise professional report writing.

DESST 3028
Natural and Landscape Systems

6 units - semester 1

Up to 6 hours lectures/seminars/tutorials per week - field camp may be required

Restriction: B.Des.St.students - other students should check their Academic Program Rules re eligibility

Quota will apply

Assessment: assignments, presentations, posters, folios, field reports

This course explores in detail 'natural' systems including plant types, taxonomy, performance and maintenance; how they interact with design; and how they are addressed in landscape design. Also covered are hydrology, stormwater management systems, drainage, arid landscapes and wetland design. It specifically explores the issues related to the arid/mallee/coastal

and temperate environments of South Australia and how humans reside within and have manipulated the landscapes to their advantage and disadvantage.

DESST 3029 Architecture Design Studio

6 units - semester 2

Up to 6 hours lectures/studios per week

Restriction: B.Des.St.students - other students should check their Academic Program Rules re eligibility

Quota will apply

Assumed Knowledge: Level II Des.St. core courses & DESST 3011 or DESST 3027

Incompatible: DESST 3006

Assessment: assignments, final project

This course focuses on the exploration of contemporary architecture theories and their application to the design and development of medium scale building project(s). Emphasis will be placed on development of brief and program; developing design to respond to the local environments with the application 'passive' design principles, natural and artificial lighting, and building ergonomics; selecting building materials suitable for the construction; developing construction details; sizing of the structural elements; performing life-cycle cost analysis; and presenting design work with manual/hand and digital drawing and physical modelling using the conventions in architectural representation as well as using innovative digital techniques.

DESST 3030 Landscape Architecture Design Studio

6 units - semester 2

Up to 6 hours lectures/studios/workshops per week - field camp may be required

Restriction: B.Des.St.students - other students should check their Academic Program Rules re eligibility

Quota will apply

Assumed Knowledge: Level II Des.St. core courses, 3011 or DESST 3027 & DESST 1025 or DESST 2025 or DESST 3028

Incompatible: DESST 3022

Assessment: design projects, assignments, presentations

This course focuses on the exploration of contemporary landscape architecture theories and their application to the design and development of medium to large-scale landscape project(s). Emphasis will be placed on development of brief, process, and program; developing design to respond to the user needs assessed through community consultation and to local environments by taking into consideration topography, vegetation, soil/geology, hydrology and climatology; developing appropriate structure and construction details for the planting and hard scape design as well as irrigation systems; applying night lighting where appropriate; performing life-cycle cost analysis; and presenting design work with manual/hand and digital drawing and physical modelling using the conventions in architectural representation as well as using innovative digital techniques.

The course also introduces the use of Geographic Information System (GIS) in landscape projects.

DESST 3031 Digital Media Studio

6 units - semester 2

Up to 6 hours lectures/digital studio per week

Restriction: B.Des.St.students - other students should check their Academic Program Rules re eligibility

Quota will apply

Assessment: digital design projects, assignments

This course focuses on the concepts of rules, contingency, grammar and play in the design of virtual places. It explores interaction between the user/designer and virtual space and issues of narrative and animation. Designs will be developed in several digital media applications using visualisation techniques, including Web design, 3D modelling, animation and simulation using a general purpose solid modeller of the kind used in the digital film production industry, as well as 3D Studio Max. An introduction to non-linear editing and sound track production will be used as part of the electronic presentation of virtual design spaces.

HONOURS

DESST 4001A/B Honours Design Studies

24 units - full year

Restriction: approved Honours B.Des.St.students only

Assumed Knowledge: consult the Head of the School of Architecture, Landscape Architecture and Urban Design

Discussions with supervisor, occasional seminars, laboratory sessions as appropriate

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 & Landscape Architectural History
- Australian Architectural & Landscape Architectural History
- Australian Urban Design History & Practice
- Computer-Aided Design
- Computer Applications in Architecture, Landscape Architecture or Urban Design
- Conservation in the Built Environment
- Criticism and Architecture & Landscape Architecture
- Cross-Cultural Architectural & Landscape Architectural Topics
- Dryland Landscape Design
- Heritage Conservation & Cultural Landscapes
- Islamic Architecture and Garden Design

Issues in Sustainable Architecture & Urban Design
 Plants in Design
 Project Management
 South East Asian Architecture & Landscape Architecture
 Theories in Modern Architecture & Landscape Architecture
 Thermal Design of Buildings
 Urban Design Histories & Theories
 Urban Design in Islamic or South East Asian Places
 Urban Ecology.

Subject to the approval of the Head 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..

Development Studies

LEVEL I

DEVT 1001 Introduction to Development Studies

3 units - semester 1
 3 contact hours per week
 Available for Non-Award Study
 Assessment: tutorial papers/participation, essays

This course aims to provide students with an understanding of key perspectives and issues in development theory, policy, and practice. It focuses in particular on debates surrounding the effect of globalisation on poverty, the nature of 'capable states', the causes of civil war, and strategies for ensuring the sustainability of development, overcoming gender inequality, and rebuilding collapsed states. The course is intended to be multi-disciplinary in character in that it seeks to illustrate the way in which different disciplinary lenses can inform our understanding of what development is, how it occurs, and how it can be achieved.

LEVEL II

DEVT 2001 Gender, Community & Development

4 units - semester 1
 3 contact hours per week
 Prerequisite: 6 units Level I Humanities/Social Sciences
 Incompatible: DEVT 3001
 Assessment: essays, tutorial papers/participation

This course will investigate the crucial relationship between gender and development, examining the ways in which gender affects development processes and programs and how gender may be transformed in the process. It will deal with key concepts and theoretical frameworks of gender and development, particularly in terms of current issues in development discourse and

the anthropology of development. These include issues like poverty and gender; gender and the development of natural resources; land ownership and gender; religion and development; gender and the labour market; gendered violence, sex work and development; health, gender and development and the role of the state. It will focus on several case studies that will be studied in detail in order to allow for an analysis of practical, micro-level experiences of development, through which central concepts of development discourse, such as sustainable development, participatory development or empowerment theory for example, and theories of development and gender will be critically examined.

LEVEL III

DEVT 3001 Gender, Community & Development

6 units - semester 1
 3 contact hours per week
 Prerequisite: 8 units Level II Humanities/Social Sciences
 Incompatible: DEVT 2001
 Assessment: essay, tutorial papers/participation

This course will investigate the crucial relationship between gender and development, examining the ways in which gender affects development processes and programs and how gender may be transformed in the process. It will deal with key concepts and theoretical frameworks of gender and development, particularly in terms of current issues in development discourse and the anthropology of development. These include issues like poverty and gender; gender and the development of natural resources; land ownership and gender; religion and development; gender and the labour market; gendered violence, sex work and development; health, gender and development and the role of the state. It will focus on several case studies that will be studied in detail in order to allow for an analysis of practical, micro-level experiences of development, through which central concepts of development discourse, such as sustainable development, participatory development or empowerment theory for example, and theories of development and gender will be critically examined.

Economics

LEVEL I

ECON 1000 Principles of Macroeconomics I

3 units - summer semester or semester 1 or 2
 2 lectures, 1 tutorial per week
 Available for Non-Award Study
 Quota will apply
 Incompatible: not available to students who have passed ECON 1000
 Assessment: tutorial participation, mid semester test & final exam

This course provides an introduction to macroeconomic theory and policy in Australia. Provides a framework in which the interaction of labour, money, goods and services markets are developed to allow the students to understand how the process, unemployment, interest rates and production of goods and services are jointly determined. The framework is then used to understand how policies set by the central bank and the government affect the economy.

ECON 1002 Australia & the Global Economy I

3 units - semester 1

2 lectures, 1 tutorial a week

Available for Non-Award Study

Incompatible: not for students who have passed ECON 1002

Assessment: tutorial work, essays or papers, final exam

How does the global economy affect Australia and Australians? That is the topic of this course. Lecturers will examine current challenges such as greenhouse gas emissions, national security and the management of our seas. They will review debates about the way our growth is affected by China and the United States, about the impact of foreign investment and migration, and about the determinants of our interest rate and therefore our loan repayments.

The course will deepen students' understanding of the world around us and its impact on the way we live and work.

ECON 1004 Principles of Microeconomics I

3 units - summer semester or semester 1 or 2

2 lectures, 1 tutorial per week

Available for Non-Award Study

Quota may apply

Incompatible: not for to students who have passed ECON 1004

Assessment: mid semester exam & final exam

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

Incompatible: Beginners course - except with permission of Head of School, may not be taken by students who have performed satisfactorily in SACE Stage 2 Maths (Maths Studies or Specialist Maths) or equiv

Assessment: tutorial work, mid-semester test, final exam

The course is intended for students without sufficient SACE Stage 2 Maths who wish to obtain knowledge of mathematical techniques suitable for economic analysis. It 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 - summer semester or semester 1 or 2

2 lectures, 1 tutorial per week

Available for Non-Award Study

Quota: may apply

Incompatible: ECON 1008, STATS 1000 cannot both be counted toward degree

Assessment: tutorials, assignments, tests, final exam

This course introduces statistics as a way of using data and reasoning to better understand the world. The emphasis is on thinking and understanding the concepts and the interpretation and discussion of results rather than on definitions, maths, equations and theory.

Topics include descriptive statistics, correlation and simple regression, probability, an introduction to statistical inference, index numbers and time series analysis. Students are taught how to access a statistical database, and how to use a statistical package to do calculations.

ECON 1009 International Financial Institutions & Markets I

3 units - semester 1 or 2

2 lectures, 1 tutorial per week

Available for Non-Award Study

Quota may apply

Assessment: tutorial participation, written assignments, mid semester exam & final exam

This course provides an overview of modern and rapidly changing financial systems, with special reference to Australia. It covers the principal institutions, instruments and financial markets which make up the system. There is a throughout a focus on the economics of the financial markets - including an introduction to the efficient markets hypothesis and behavioural finance theory. Topics covered include the domestic and international flow of funds; the money, credit, capital and foreign exchange markets; the role of the deposit taking and long term savings

institutions; the role of the Reserve Bank of Australia as a modern central bank. Instruments discussed include traditional instruments such as equities, bills and bonds, and modern instruments such as asset backed securities. The 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 2

2 lecturers, 1 tutorial per week

Available for Non-Award Study

Assumed Knowledge: ECON 1004

Assessment: mid term test, final exam, tutorial presentation

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 1

2 lectures, 1 tutorial per week

Available for Non-Award Study

Assumed Knowledge: ECON 1004

Incompatible: not available to students who have already passed ECON 2001

Assessment: report, midterm, tutorial assignments & final exam

This course focuses on how economic activities impact the environment, and how economic policies can be designed to deal with these impacts. The course shows how standard economic analysis can be applied to a field where often markets do not exist. It covers general theory of environmental issues and applications to a variety of local, regional and global issues. Topics that may be covered include: air and water pollution, natural resource exploitation, waste disposal, global warming, and sustainable development.

ECON 2003 East Asian Economies II

4 units - semester 2

2 lectures, 1 tutorial

Available for Non-Award Study

Assumed Knowledge: ECON 1004 or ECON 1000 or any full first year of courses in Asian Studies

Assessment: tutorial work, essay & final exam

This course is designed to introduce students to the nature and structure of the economies of East Asia. The

course is divided into two parts. The first half will be more "technical" in nature, focusing on the macroeconomics and growth of the region as whole. The second part is more "interdisciplinary" in nature, emphasising the historical, political and cultural setting as well as economic forces that have shaped the development of their economic institutions. The contribution of these institutions to economic growth will also be closely examined. The course is jointly taught by staff from the School of Economics and the Centre for Asian Studies. Economics background is not a prerequisite for this course. This course is suitable to students majoring in development studies, international studies, politics, commerce, Asian Studies as well as economics, who wish to give an East Asian Economies focus to their own field of study.

ECON 2005 Mathematical Economics II

4 units - semester 1

2 lectures; 1 tutorial a week

Available for Non-Award Study

Assumed Knowledge: ECON 1004, ECON 1000

Assessment: exam, test

This course concentrates on the mathematical methods that are required to understand current economics and to investigate economic models. Topics may include optimisation with and without constraints; linear models; advanced matrix algebra, integration and functions. It is recommended that students intending to proceed to the Honours degree or Master of Economics successfully complete this course

ECON 2006 Economic and Financial Data Analysis II

4 units - summer semester or semester 1 or 2

2 lectures, 1 tutorial a week

Available for Non-Award Study

Prerequisite: ECON 1008 or STATS 1000 or equiv

Assumed Knowledge: ECON 1004, ECON 1000, Maths at least to level of ECON 1005

Incompatible: cannot be counted with STATS 2002 & STATS 2003

Assessment: tutorial participation, mid semester test & final exam

This course provides an introduction to the techniques used to analyse economic and financial data sets. It focuses on the ability to use and understand the methods involved. The first half of the course involve a revision of basic statistics and an introduction to simple and multiple regression analysis, which remains the most commonly used statistical technique in econometrics. In the second half of the course, we will consider several practical aspects of linear regression models such as the different functional forms of regression models commonly used in applied work, consider the consequences of violating some of the classical regression assumptions and suggest some remedial measures accordingly. Basic computing skills using a statistical package will also be developed.

ECON 2007 Australian Economic History II

4 units - not on offer in 2008

2 lectures, 1 tutorial a week

Available for Non-Award Study

Assumed Knowledge: ECON 1004, ECON 1000

Assessment: tutorial work, essay & final exam

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, economic growth and fluctuations, governments and markets, 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

Incompatible: not available to students who have passed ECON 2009

Assessment: mid semester exam & final exam

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

Assumed Knowledge: SACE 2 Maths or ECON 1005

Incompatible: not available to students who have passed ECON 2011

Assessment: mid semester exam & final 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 this course 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 or ECON 1009

Incompatible: not available to students who have passed ECON 2008

Assessment: assignments, mid-term test, final exam

This course is designed to provide both a self contained study of the principles of financial economics, and a bridge between courses such as International Financial Institutions and Markets 1 or Business Finance 2 and third year finance courses. It includes a critical discussion of the efficient markets theory, an overview of quantitative methods in finance, considers risk aversion in the context of utility theory, examines portfolio theory, the Capital Asset Pricing Model and multi-factor asset pricing models, covers bond pricing, duration and convexity, theories of the term structure of interest rates, the dividend discount and price-earnings models of share valuation, and introduces the top down approach to investment decisions.

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

Incompatible: not available to students who have passed ECON 3003

Assessment: project, tutorial assignments & final exam

This course studies the application of economic analysis to the management of the environmental and natural resources. We will consider the role of economic theory in understanding and solving environmental and resource problems and discuss empirical examinations of the theory. Domestic and international policy implications will be addressed. Topics that may be covered include: air and water pollution, sustainability, renewable and non-renewable resource management, and the impact of trade.

ECON 3006
Development Economics III

4 units - semester 1

2 lectures, 1 tutorial a week

Available for Non-Award Study

Assumed Knowledge: ECON 2011, ECON 2009

Assessment: mid semester exam, tutorial work, large assignment & final exam

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

Prerequisite: ECON 2006 or equiv

Incompatible: not to be undertaken with ECON 3023

Assessment: mid semester exam and final exam

The aim of this course is to teach students various aspects of estimation and inference for linear regression models. Particular attention is paid to the econometric theory, to the application of econometrics to real-world problems, and to the interpretation of the estimation results. Standard econometric packages are used for computer exercises. Topics include probability theory and statistics for economist (probability space, random variables, probability distributions, populations, parameters, random sampling, finite sample and asymptotic properties of estimators, interval estimation, and hypothesis testing), simple and multiple linear regression models for cross-sectional data (estimation, inference, OLS asymptotics), and multiple regression models with qualitative variables information (binary variables).

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 2005 or equiv

Assessment: assignments & final exam

This course provides an introduction to Game Theory. Game Theory is a mathematical framework which makes possible the analysis of the decision making process of interdependent subjects. It is aimed at explaining and predicting how individuals behave in a specific strategic situation, and therefore help improve decision making. A situation is strategic if the outcome of a decision problem depends on the choices of more than one person. Most decision problems in real life are strategic.

The course will explain in depth the standard equilibrium concepts (such as Nash Equilibrium, Subgame-Perfect

Nash Equilibrium, and others) in Game Theory. To illustrate the concepts, real-world examples, case studies, and classroom experiments might be used.

ECON 3017
Labour Economics III

4 units - not on offer in 2008

2 lectures, 1 tutorial a week

Available for Non-Award Study

Assumed Knowledge: ECON 2009

Assessment: midterm, final exam, project

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

Restriction: Civil & Env. Engineering students only

Prerequisite: C&ENVENG 3067

Assessment: project, tutorial assignments and final exam

This course studies the application of economic analysis to the management of the environmental and natural resources. We will consider the role of economic theory in understanding and solving environmental and resource problems and discuss empirical examinations of the theory. Domestic and international policy implications will be addressed. Topics that may be covered include: air and water pollution, sustainability, renewable and non-renewable resource management, and the impact of trade.

ECON 3021
International Trade III

4 units - semester 1

2 lectures, 1 tutorial per week

Available for Non-Award Study

Assumed Knowledge: ECON 2011, ECON 2009

Assessment: mid semester test & final exam

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 - semester 2

2 lectures, 1 tutorial a week

Available for Non-Award Study

Prerequisite: Credit standard in ECON 2006 or equiv

Assumed Knowledge: ECON 2009 or ECON 2011 & MATHS 1011/1012 or MATHS 1013 or ECON 2005

Incompatible: not to be undertaken with ECON 3013

Assessment: tutorial work, mid semester exam & final exam

Students who want to do the Honours degree are expected to complete this course successfully. The objective of this course is to study more advanced topics on econometrics. Students are expected to have knowledge in statistics and multiple regression models at the level of Applied Econometrics III or equivalent.

The topics in the course include heteroskedasticity, specification and data problems, regression analysis with time series data, panel data, instrument variables estimation, simultaneous equation models, and limited dependent variable models. The emphasis is on understanding the models in light of actual empirical applications. Through the course, we will apply the econometrics models to real-world data and interpret the estimation results in many respects. Standard econometric packages are used for computer exercises.

ECON 3024 **Public Economics III**

4 units - semester 1

2 lectures, 1 tutorial a week

Available for Non-Award Study

Assumed Knowledge: ECON 2009

Assessment: mid semester test & final exam

This course investigates the role of the public sector in the economic arena. We will attempt to explain why government intervention is needed (emphasising market failure and inequality), how it influences the behaviour of the private sector, what the welfare effects of such influences are, and so on. The two Welfare Theorems are key conceptual tools. We will also survey political economy, which regards actions of the public sector as determined by a political process. Much of the course is organised around the concepts of public goods, externalities, and collective action.

The course places these concepts firmly in the context of current developments such as globalization, networks, the Internet economy. Due attention is given to innovation, transaction costs, antitrust issues, and the nonprofit private sector, all of which are essential to understanding the role and tasks of the public sector.

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, ECON 2011 (one 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 2

2 lectures, 1 tutorial a week

Available for Non-Award Study

Assumed Knowledge: ECON 2011, ECON 2009, & ECON 2006 or both STATS 2002 & STATS 2003

Assessment: tutorial work, 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 the main concepts, principles and models in the theory and empirical works in those two key areas of International Finance; to apply analytical tools to understand the relevant policy issues in the global markets. Based on additional reading materials, 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

Prerequisite: Credit in ECON 2009, ECON 2011

Assessment: mid semester test & final exam

This subject presents an introduction to the advanced treatment of economic theory covered in ECON 2011 Macroeconomic Theory and Policy II/ECON 2009 Consumers, Firms and Markets II. The focus will be advanced analytical techniques. Topics covered may include general equilibrium, open economy models, advanced analysis of the role of wealth, expectations, monetary and fiscal policy, game theory, choice under uncertainty, insurance markets and risky assets.

ECON 3035 Money, Banking and Financial Markets III

4 units - semester 1

2 lectures, 1 tutorial per week

Assumed Knowledge: ECON 2011 or ECON 2012

Assessment: mid semester test, 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 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).

Public Finance III

4 units - semester 2

2 lectures, 1 tutorial a week

Available for Non-Award Study

Assumed Knowledge: ECON 2009

Assessment: tutorial work, mid semester exam & final exam

This course seeks to introduce the advanced undergraduate to formal models of public finance and topics in public finance that are of particular relevance in the Australian context. Basic models of public goods, externalities and optimal taxes are then developed in order to familiarize the student with the main characteristics of these market failures and their respective solutions. The course provides various typologies of taxes and introduces models that link optimal taxation to market characteristics such as elasticities. We shall examine the relationship between government finance and private-sector finance. The budgeting process and various funding instruments are discussed with special reference to Australian institutions. Finally, issues of fiscal federalism will be covered with a strong emphasis on the Australian institutional and historical context. These will be contrasted with current literature on fiscal federalism arising out of research inspired by issues concerning the European Union. This course is recommended for those students who wish to seek a career in government or the public sector and for those interested in further study in economics and finance, including corporate finance.

HONOURS

ECON 4003A/B 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

Restriction: Economic Honours students only

Prerequisite: B.Ec. (or equiv.) incl. ECON 3034, & ECON 3023 or ECON 3013 (or equiv.), plus high standard in degree courses, credit

or better in ECON 3034, econometrics course & at least one other level III economics course

Assumed Knowledge: students may proceed without ECON 2005, or MATHS 1007A/B or MATHS, only with approval of Head of School or nominee

Assessment: paper in each of Microeconomics, Macroeconomics (examined in June), papers in optional courses, [approx] 12000 word thesis

Honours students are required to undertake a research project and present a thesis. The thesis, to be commenced by the first week of February, counts for either 37.5% or 25% of the year's assessment, depending on whether 3 or 4 optional courses are selected under clause (see below). The thesis is to be completed and presented, typed and bound, towards the end of second semester: the exact date is notified in February.

Arrangements are possible for joint honours combining Economics with study in another department/centre. Details are available from the Head of the School or Honours Coordinator.

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 3 or 4 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 take place in semester 1 or 2

ECON 4005A/B Honours Finance

24 units - full year

Contact hours to be advised

Restriction: Finance Honours students only

Prerequisite: B.Fin (or equiv), ECON 3023, high standard in courses presented for degree

Assessment: coursework, papers, research project, thesis

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 25% - 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

Restriction: B.Teaching students only

Assessment: completion of observation journal, series of reflective exercises

This course will require students to complete the equivalent of 10 half days of observation and experience in a primary school selected for them. In addition, there will be 3 half-day compulsory seminars associated with this experience. These seminars are outside teaching weeks.

LEVEL II

EDUC 2000 **Issues in Contemporary Education**

4 units - semester 1

2 hours per week

Restriction: B.Teaching students only

Prerequisite: EDUC 1000

Assessment: case study, assignment, portfolio

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 - semester 2

3 hours per week (or equiv) including seminars & teaching placement

Restriction: B.Teaching students only

Prerequisite: EDUC 1000, EDUC 2000

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 3 half-day compulsory seminars associated with this experience which will be held outside normal teaching weeks.

LEVEL IV

EDUC 4301 **Teaching Practice UG Part 2**

3 units - semester 2

Restriction: B.Teaching students only

Prerequisite: EDUC 1000/2000/3000

Assessment: supervised teaching practice

Students will undertake one block of supervised teaching practice. Students who successfully complete the course are given a non-graded pass.

EDUC 4303 **Curriculum and Methodology B**

3 units -

6-7 hours per week

Restriction: B.Teaching students only

Assumed Knowledge: EDUC 4302

Assessment: essays, assignments relating to each teaching area - student must satisfy requirements in each 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 2008

2-3 hours per week

Restriction: 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 2008

2-3 hours per week

Restriction: 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 2008

3-4 hours per week

Restriction: B.Teaching students only

Assessment: essays, assignments

This course analyses curriculum theories and curriculum development in relation to Australian classrooms.

EDUC 4308A/B
Accounting Curriculum and Methodology (UG)

2 units - full year

Restriction: Bachelor of Teaching students only

Prerequisite: Pass in 6 semesters of accounting course

The course aims to present information on a range of methodologies and discuss a variety of skills to help students to be better prepared for the start of their teaching career.

EDUC 4309A/B
Adult Learner Curriculum & Methodology (UG)

2 units - full year

Restriction: Bachelor of Teaching students only

The course aims to present information on a range of methodologies and discuss a variety of skills to help students to be better prepared for the start of their teaching career.

EDUC 4310A/B
Biology Curriculum and Methodology (UG)

2 units - full year

Restriction: Bachelor of Teaching Students only

Prerequisite: pass in a Level III biological science course

Corequisite: EDUC 4731

Assessment: essay, unit of work, online tasks, designing pracs & investigations

The course aims to present information on a range of methodologies and discuss a variety of skills that will better equip students to be better prepared for the start of their teaching career in middle school science and senior school biology.

EDUC 4311A/B
Business Studies Curriculum & Method (UG)

2 units - full year

Restriction: Bachelor of Teaching students only

Prerequisite: pass in six semesters of business degree

The course aims to present information on a range of methodologies and discuss a variety of skills to help students to be better prepared for the start of their teaching career.

EDUC 4312A/B
Chemistry Curriculum and Methodology (UG)

2 units - full year

Restriction: Bachelor of Teaching students only

Prerequisite: pass in a Level III chemistry course

Corequisite: EDUC 4329

Assessment: essay, unit of work, online tasks, designing pracs & investigations

The course aims to present information on a range of methodologies and discuss a variety of skills that will better equip students to be better prepared for the start of their teaching career in middle school science and senior school chemistry.

EDUC 4313A/B
Chinese Curriculum and Methodology (UG)

2 units - full year

Restriction: Bachelor of Teaching students only

Prerequisite: Pass at Level III Chinese or equivalent

Corequisite: EDUC 4330

The course aims to present information on a range of methodologies and discuss a variety of skills to help students to be better prepared for the start of their teaching career.

EDUC 4314A/B
Classroom Music Curriculum & Methodology (UG)

3 units - full year

Restriction: Bachelor of Teaching students only

Prerequisite: degree in Music or pass in Level III music course

The course aims to present information on a range of methodologies and discuss a variety of skills to help students to be better prepared for the start of their teaching career.

EDUC 4315A/B
Economics Curriculum and Methodology (UG)

2 units - full year

Restriction: Bachelor of Teaching students only

Prerequisite: pass in six semesters of economics degree

The course aims to present information on a range of methodologies and discuss a variety of skills to help students to be better prepared for the start of their teaching career.

EDUC 4316A/B
English as a 2nd Language Curriculum & Method (UG)

2 units - full year

Restriction: Bachelor of Teaching only

Prerequisite: 4 UG linguistics courses or University of Adelaide TESOL Cert IV - Linguistics study must have been in English

Assumed Knowledge: High level of English literacy competency

Incompatible:

The course aims to present information on a range of methodologies and discuss a variety of skills to help students to be better prepared for the start of their teaching career

EDUC 4317A/B
Extended Specialist Curriculum (UG)

2 units - full year

Restriction: Bachelor of Teaching students only

Incompatible: only with agreement of Head of School

The course aims to present information on a range of methodologies and discuss a variety of skills to help students to be better prepared for the start of their teaching career

EDUC 4318A/B
French Curriculum and Methodology (UG)

2 units - full year

Restriction: Bachelor of Teaching students only

Prerequisite: pass at Level III French or equiv

Corequisite: EDUC 4330

The course aims to present information on a range of methodologies and discuss a variety of skills to help students to be better prepared for the start of their teaching career

EDUC 4319A/B
General English Curriculum & Methodology (UG)

2 units - full year

Restriction: Bachelor of Teaching students only

Prerequisite: four semesters of English literature

The course aims to present information on a range of methodologies and discuss a variety of skills to help students to be better prepared for the start of their teaching career

EDUC 4320A/B
Geography Curriculum and Methodology (UG)

2 units - full year

Restriction: Bachelor of Teaching students only

Prerequisite: pass in 6 semesters of geography course - in certain circumstances students with only 4 semesters may be accepted

Corequisite: EDUC 4334

The course aims to present information on a range of methodologies and discuss a variety of skills to help students to be better prepared for the start of their teaching career

EDUC 4321A/B
German Curriculum and Methodology (UG)

2 units - full year

Restriction: Bachelor of Teaching students only

Prerequisite: pass at Level III German or equiv

Corequisite: EDUC 4330

The course aims to present information on a range of methodologies and discuss a variety of skills to help students to be better prepared for the start of their teaching career

EDUC 4322A/B
History Curriculum and Methodology (UG)

2 units - full year

Restriction: Bachelor of Teaching students only

Prerequisite: pass in Level III history course - in certain circumstances students with Level II history courses may be accepted

Corequisite: EDUC 4334

The course aims to present information on a range of methodologies and discuss a variety of skills to help students to be better prepared for the start of their teaching career

EDUC 4323A/B
Indonesian Curriculum and Methodology (UG)

2 units - full year

Restriction: Bachelor of Teaching students only

Prerequisite: Pass at Level III Indonesian or equiv

Corequisite: EDUC 4330

The course aims to present information on a range of methodologies and discuss a variety of skills to help students to be better prepared for the start of their teaching career

EDUC 4324A/B
Information Technology Curriculum & Method (UG)

2 units - full year

Restriction: Bachelor of Teaching students only

Prerequisite: pass at Level III Computer Studies

Assessment: essay, unit of work, online tasks, designing pracs & investigations

The course aims to present information on a range of methodologies and discuss a variety of skills that will better equip students to be better prepared for the start of their teaching career in middle school science and senior school information technology.

EDUC 4325A/B
Instrumental Music Curriculum & Method (UG)

3 units - full year

Restriction: Bachelor of Teaching students only

Prerequisite: degree in Music, or a pass in Level III music course, recognised instrumental qualifications

Corequisite: EDUC 4314

The course aims to present information on a range of methodologies and discuss a variety of skills to help students to be better prepared for the start of their teaching career

EDUC 4326A/B
Italian Curriculum and Methodology (UG)

2 units - full year

Restriction: Bachelor of Teaching students only

Prerequisite: pass at Level III Italian or equiv

Corequisite: EDUC 4330

The course aims to present information on a range of methodologies and discuss a variety of skills to help students to be better prepared for the start of their teaching career

EDUC 4327A/B
Japanese Curriculum and Methodology (UG)

2 units - full year

Restriction: Bachelor of Teaching students only

Prerequisite: pass at Level III Japanese or equiv

Corequisite: EDUC 4330

The course aims to present information on a range of methodologies and discuss a variety of skills to help students to be better prepared for the start of their teaching career

EDUC 4328A/B
Junior Mathematics Curriculum & Methodology (UG)

2 units - full year

Restriction: Bachelor of Teaching students only

Prerequisite: pass in Mathematics I or equiv

The course aims to present information on a range of methodologies and discuss a variety of skills to help students to be better prepared for the start of their teaching career

EDUC 4329A/B
Junior Science Curriculum & Methodology (UG)

2 units - full year

Restriction: Bachelor of Teaching students only

Prerequisite: pass in two Level I physical & biological sciences courses

Assessment: [any three] reflective journal, concept map, misconceptions, journal article, information brochure, innovative science plan (lesson)

This course is aligned with the SACSA Companion Document Series [www.sacsa.sa.edu.au/companion] and is an introduction to the classroom applications and a study of the relationship of teachers and schools to the methods of teaching junior science. The course seeks to develop the knowledge, skills, and professional standards required to effectively instruct science at the junior- and middle-schools. Participants will be provided with insights into selecting and using a variety of instructional methods, resources and assessment strategies for teaching science to all learners. Workshop modules cover hands-on, inquiry, process and project-based approach to the teaching of science with a focus on conceptual teaching and learning. Knowledge of junior science content is emphasised throughout the course. The course content strongly reflects the curricular emphasis of DECS, and the standards articulated by the Australian Science Teachers Association [www.asta.edu.au/membership/benefits/recognition/profstds].

EDUC 4330A/B
Language Methodology (UG)

2 units - full year

Restriction: Bachelor of Teaching students only

Prerequisite: pass in a Level III language other than English course

The course aims to present information on a range of methodologies and discuss a variety of skills to help students to be better prepared for the start of their teaching career

EDUC 4331A/B
Physics Curriculum and Methodology (UG)

2 units - full year

Restriction: Bachelor of Teaching students only

Prerequisite: pass in Level III physics course

Corequisite: EDUC 4329

Assessment: essay, unit of work, online tasks, designing pracs & investigations

The course aims to present information on a range of methodologies and discuss a variety of skills that will better equip students to be better prepared for the start of their teaching career in middle school science and senior school physics.

EDUC 4332A/B
Senior English Curriculum & Methodology (UG)

2 units - full year

Restriction: Bachelor of Teaching students only

Prerequisite: six semesters of English literature

Corequisite: EDUC 4319

The course aims to present information on a range of methodologies and discuss a variety of skills to help students to be better prepared for the start of their teaching career

EDUC 4333A/B
Senior Mathematics Curric & Methodology (UG)

2 units - full year

Restriction: Bachelor of Teaching students only

Prerequisite: pass in Level III maths course

Corequisite: EDUC 4328

The course aims to present information on a range of methodologies and discuss a variety of skills to help students to be better prepared for the start of their teaching career

EDUC 4334A/B
Studies of Society and Environment (UG)

2 units - full year

Restriction: Bachelor of Teaching students only

Prerequisite: pass in 6 semesters Anthropology, Classical Studies, Economics, Geography, History, Law, Politics or other approved course - in certain circumstances 4 semesters may be accepted

The course aims to present information on a range of methodologies and discuss a variety of skills to help students to be better prepared for the start of their teaching career

EDUC 4335A/B
Spanish Curriculum & Methodology (UG)

2 units - full year

Restriction: Bachelor of Teaching students only

Prerequisite: pass at Level III Spanish or equiv

Corequisite: EDUC 4330

The course aims to present information on a range of methodologies and discuss a variety of skills to help students to be better prepared for the start of their teaching career

EDUC 4336A/B
Other Language Curriculum & Methodology (UG)

2 units - full year

Restriction: Bachelor of Teaching students only

Prerequisite: pass in appropriate language at Level III or equiv

Corequisite: EDUC 4336

The course aims to present information on a range of methodologies and discuss a variety of skills to help students to be better prepared for the start of their teaching career

EDUC 4337A/B **Vietnamese Curriculum and Methodology (UG)**

2 units - full year

Restriction: Bachelor of Teaching students only

Prerequisite: pass at Level III Vietnamese or equiv

Corequisite: EDUC 4330

The course aims to present information on a range of methodologies and discuss a variety of skills to help students to be better prepared for the start of their teaching career

EDUC 4338A/B **Modern Greek Curriculum & Methodology (UG)**

2 units - full year

Restriction: Bachelor of Teaching students only

Prerequisite: Major in Modern Greek or equiv

Corequisite: EDUC 4330

Assessment: practical assignments, essays

In this course, students will be introduced to current curriculum frameworks and learning methodologies in the teaching of Modern Greek from years 8 -12.

EDUC 4339A/B **Languages Education for TESOL (UG)**

2 units - full year

Restriction: Bachelor of Teaching students only

Prerequisite: 4 UG linguistics courses or University of Adelaide TESOL Cert IV - Linguistics study must have been in English

Corequisite: EDUC 4316

Assumed Knowledge: high level of English literacy competency

Languages Education for TESOL aims to equip students with the knowledge, skills and understandings required for the effective teaching of ESL to middle and senior year students in South Australian schools. In particular, the course aims to develop skills in effective classroom communication. Whilst relating to students is the primary focus of the course, at a wider level the course emphasises the importance of communication with staff, parents and the wider community. Lectures will introduce students to a range of teaching strategies in the context of current language learning theories. Migration trends and indigenous populations will be considered in exploring school curriculum development and policy in relation to teaching English as a second or other language. The course will give students tools for lesson and unit planning using the South Australian Curriculum Standards and Accountability Framework Directed group work will allow students to work collaboratively in building resources, establishing contacts and networking with practicing teachers.

EDUC 4340A/B **Psychology Curriculum & Methodology (UG)**

2 units - full year

2 hours per week

Prerequisite: major in Psychology or equiv

Assessment: practical assignments & essays

This course will introduce students to the new year 11 and 12 SACE Curriculum in Psychology and discuss appropriate learning methodologies for teaching it.

EDUC 4700 **Families, Schools & Students' Outcomes (UG)**

2 units - semester 2

2 hours per week

Restriction: Education students only

Assessment: 2500-3000 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 **Student-Teacher Interaction in the Classroom** **Pt 1 (UG)**

2 units - semester 1

3 hours per week

Restriction: B.Music Education students only

Assessment: practical exercises, 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

Restriction: B.Teach and B.Mus Ed students only

Prerequisite: BMusEd - at least one Curriculum & Methodology course - B.Teach - EDUC 1000, EDUC 2000, EDUC 3000

Corequisite: at least one Curriculum & Methodology course

Assessment: supervised teaching practice

Students will undertake one block of supervised teaching practice, and upon successful completion, are given a non-graded pass.

EDUC 4703 **Teaching Practice II (UG)**

3 units - semester 1 or 2

Restriction: B.Teach & B. Mus Ed students only

Prerequisite: BMusEd - at least one Curriculum and Methodology course - B.Teach - EDUC 1000, EDUC 2000, EDUC 3000

Corequisite: at least one Curriculum & Methodology course

Assessment: supervised teaching practice

Students will undertake one block of supervised teaching practice, and upon successful completion, are given a non-graded pass.

EDUC 4704
Professional Practice & ICT for Teachers (UG)

2 units - semester 1

4 hours per week

Restriction: Education students only

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 & Assessment of Learning (UG)

2 units - semester 2

3-4 hours per week

Restriction: Education students only

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
Student-Teacher Interaction in the Classroom (UG)

2 units - semester 2

3 hours per week

Restriction: Education students only

Assessment: practical exercises, 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 & Society (UG)

2 units - semester 1

2 hours per week

Restriction: Education students only

Assessment: 2000 word essay

This course will introduce students to theories around the construction of cultural identities in Australia. This will include an overview of some of the paradigms underpinning these constructions and how these then affect epistemologies, ontologies and pedagogies. It will examine how the teacher, classroom and school operate to reinforce hegemonic social 'norms' and some strategies that enable the provision of 'inclusive' education to culturally plural groups.

Engineering

LEVEL I

C&ENVENG 1001
Statics

2 units - summer semester

34 contact hours lectures, tutorials

Restriction: for students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assumed Knowledge: Physics, Mathematical Studies, Specialist Mathematics

Assessment: exam, quizzes - further details available at beginning of semester

This course familiarises students with the principles of static equilibrium by applying Newton's laws of motion to solve engineering problems. Topics will be taken from: introduction to forces; 2D and 3D equilibrium of particles and rigid bodies; centre of gravity and centroids; distributed loading and hydrostatics; friction; analysis of structures including trusses, frames and machines; and drawing shear and bending moment diagrams. Emphasis is placed on drawing free-body diagrams and self-checking strategies.

C&ENVENG 1008
Engineering Planning and Design 1A

3 units - semester 1

24 hrs lectures, 12 hours tutorials, 12 hours practicals/design)

Available for Non-Award Study

Assumed Knowledge: High school Physics & Maths (basic algebra, geometry & calculus)

Assessment: exam 60%, design practical 40%

Introduction to engineering: engineering planning and design methodology; basic systems concepts; creative aspects of design; economic, environmental and social evaluation of engineering projects; introduction to economic and environmental economics; decision theory; scheduling; engineering ethics; sustainability; engineering practice; case studies.

C&ENVENG 1009
Civil and Environmental Engineering 1A

3 units - semester 2

48 hours lectures, tutorials and design practicals

Available for Non-Award Study

Prerequisite: C&ENVENG 1010

Assumed Knowledge: High school Physics & Maths (basic algebra, geometry & calculus)

Assessment: design

This course provides an introduction to civil and environmental engineering design covering the sub-discipline areas of civil and environmental engineering: this 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 1010 **Engineering Mechanics - Statics**

3 units - semester 1

36 hours lectures, 12 hours tutorials

Available for Non-Award Study

Assumed Knowledge: High school Physics & Maths (basic algebra, geometry, calculus)

Assessment: exam 80%, tutorial quizzes 20%

This course familiarises students with the principles of static equilibrium by applying Newton's laws of motion to solve engineering problems. Topics will be taken from: introduction to forces; 2D and 3D equilibrium of particles and rigid bodies; centre of gravity and centroids; distributed loading and hydrostatics; friction; analysis of structures including trusses, frames and machines; and drawing shear and bending moment diagrams. The course finishes with an introduction to load paths and approximate analysis techniques for statically indeterminate structures. Emphasis is placed on drawing free-body diagrams and self-checking strategies.

C&ENVENG 1011 **Introduction to Mining Engineering 1A**

3 units - semester 2

48 hours lectures, practicals and a field trip

Available for Non-Award Study

Assumed Knowledge: High school Physics & Maths

Assessment: site visit report 50%, exam 50%

This course provides a basic introduction to the fundamental operations involved in mining engineering. Topics to be covered include resources evaluation, mine planning and design, surface and underground mining methods, drilling and blasting, rock support systems, haulage and hoisting, mineral processing, mine safety and environment. The course also covers introduction and tutorial exercises for an industrial-strength mine planning and design software. Site visits to working mines during mid-term break will also be included.

C&ENVENG 1012 **Engineering, Modelling and Analysis 1A**

3 units - semester 2

48 hours lectures, tutorials & practicals

Available for Non-Award Study

Assumed Knowledge: Year 12 Mathematics

Assessment: 3 hour exam - including theory & practical assignments - run in CAT suite

This course serves as an introduction to how engineers typically solve real world and complex problems. In many cases mathematical or analytical solutions are not available and numerical or computer methods must be used. This course will introduce this important area and provide training in its fundamental components. These include: Introduction to computer theory and computing environments; Development of programming skills in

Fortran 90/95, Visual Basic in Excel (VBA) and Matlab; Development of programs that are well-structured and can be easily maintained; Introduction to probability and statistics and Monte Carlo simulation techniques.

Introduction to numerical methods in engineering, including: Approximations and errors; Working with sorting and searching arrays; Solving large sets of Linear algebraic equations; Roots of equations; Numerical differentiation and integration; Solution of ordinary differential equations.

CHEM ENG 1004 **Introduction to Bio-Processing**

3 units - semester 1

3 hours lectures, 2 hours tutorials/practical classes

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Prerequisite: SACE Stage 2 Maths Studies, Chemistry

Assumed Knowledge: SACE Stage 2 Specialist Maths, 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 1006 **Introduction to Pharmaceutical Engineering**

3 units - semester 1

48 hours lectures, tutorials, projects

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolled if you are unclear

Available for Non-Award Study

Assumed Knowledge: SACE Stage 2 Math.Studies

Assessment: written exams, performance in tutorial classes; class assignments & projects - full details advised at beginning of course

An introductory subject with emphasis on integrating the molecular and cellular biosciences with the quantitative, systems-oriented engineering analysis and synthesis approach.

Topics include history of pharmaceuticals; introduction to the pharmaceuticals industry and its various sectors; engineering stages required for manufacture of active ingredients (primary manufacture) and its dosage forms (secondary manufacture) overview of economics (e.g bugs to \$); overlap of molecular sciences with traditional engineering disciplines; need for interdisciplinary work; particular case studies or examples (e.g. drug delivery systems, bioactive molecules from GMOs, etc).

CHEM ENG 1007 Process Engineering I

3 units - semester 2

33 hours lectures, 12 hours tutorials

Available for Non-Award Study

Assumed Knowledge: SACE Stage 2 Math.Studies, Specialist Maths, Physics

Assessment: Final exam, tests, quizzes, assignments

To provide students with the basic principles and knowledge which define chemical or process engineering and to demonstrate these through basic calculations and problem solving. Students are introduced to topics and theory related to the core tasks that process engineers undertake. The four main areas of chemical engineering are introduced: conservation principles, fluid mechanics, transfer processes and reaction engineering.

CHEM ENG 1008 Engineering Computing

3 units - semester 1

45 hours lectures and practical classes

Available for Non-Award Study

Assumed Knowledge: SACE Stage 2 Math.Studies, Specialist Maths, Physics

Assessment: projects, exam

The course will be focused on the use of computing in engineering application. The course consists of four parts, these are: Introduction to Engineering modeling techniques, advanced Spreadsheet for engineering calculations, introduction to the ANSI 'C' computing language, and introduction to engineering computing using MATLAB.

CHEM ENG 1009 Materials I

3 units - semester 2

48 hours lectures and tutorials

Available for Non-Award Study

Assumed Knowledge: SACE Stage 2 Math.Studies, Specialist Maths, Physics

Assessment: final exam, test, quizzes, assignments

To provide students with a basic understanding of the underlying science and the engineering performance of materials used in engineering applications. Topics covered include: atomic structure, imperfections in solids, diffusion in solids, mechanical properties of metals, dislocations and strengthening mechanisms, failure mechanisms, phase diagrams and phase transformations in metals, structures and properties of ceramics/polymers/composites, applications and processing of ceramics/polymers, corrosion and degradation of materials.

CHEM ENG 1010 Professional Practice I

3 units - semester 1

44 hours of lectures, workshops and site visits

Available for Non-Award Study

Assessment: 50% exams, 50% projects and class assessments

Since its formation in the late-1800s, the discipline of chemical engineering has grown and evolved from its early roots in the production of bulk chemicals, through the petrochemical age, until today where chemical engineers are at the forefront of industries such as biotechnology, pharmaceutical, advanced materials, nanotechnology, food & beverage, and many more. The discipline has a long history and an exciting future. This course is an introduction for new students of chemical engineering and related programs to their new discipline and to their new learning environment. This introduction is made through a mix of lectures, group-based activities, site visits, and presentations by practising chemical engineers

ELEC ENG 1008 Electrical Engineering IM

2 units - summer semester

42 hours lectures, tutorials

Restriction: Students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

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.

ELEC ENG 1009 Electrical & Electronic Engineering 1A

3 units - semester 1 or 2

73 hours lectures, tutorials and practicals

Restriction: Students in specified programs only

Available for Non-Award Study

Assessment: assignments, exams, performance in laboratory

Basic Circuits/DC Analysis: electrical quantities, components and sources, circuit analysis laws; Kirchhoff laws, series/parallel circuits, voltage/current divider, superposition, Thevenin theorem; controlled sources. Introduction to Electronics: electrical devices (diodes, transistors) and applications. Diodes, DC power supplies, transistors and op-amps. Introduction to Electrical Machines: introduction to magnetic circuits, transformers and DC and AC machines. Introduction to Digital Electronics: Boolean numbers and algebra, combinational components. Microcontroller Principles: microprocessor basics, interfacing and sensors. Digital Workshop: safety and basic skills; Design Project; electronic die, power supply, oscillator, logic gates, flip-flops and counters, an electrical machines lab session.

ELEC ENG 1010 **Electrical & Electronic Engineering 1B**

3 units - semester 2

77 hours lectures, tutorials and practicals

Restriction: Students in specified programs only

Available for Non-Award Study

Assumed Knowledge: ELEC ENG 1009

Assessment: assignments, exams, performance in laboratory

AC Analysis: sinusoidal AC signal characteristics; review of complex numbers; phasor representation and analysis; power energy. Mesh and Nodal analysis: Signals and Communication: resonance of RLC circuits; filters and frequency response; amplitude and frequency modulation concepts. Digital Electronics: sequential logic, advanced methods. Communications Skills and Professional Engineering: basic verbal skills including presentation; basic written skills for documents such as experimental reports; introduction to EEE degree programs. Analog Workshop: safety and basic skills; regulated power supply. Simple audio amplifier, hee-haw siren, preamplifier, crystal set, system project: AM radio.

MECH ENG 1000 **Dynamics**

2 units - summer semester

36 hours lectures, tutorials

Restriction: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assumed Knowledge: SACE Stage 2 Math. Studies, Specialist Maths, Physics

Assessment: mid-semester test, assignments, exam

This course teaches students how to apply Newtonian physics to relatively simple physical situations. It follows on from the Statics course, but considers systems that are not in equilibrium i.e. with velocity and acceleration. Some of the topics covered are pure kinematics (a mathematical description of motion only), while others are kinetic (determine motion in problems involving the concepts of force and energy). The course restricts itself to 2-D (planar) mechanisms.

MECH ENG 1006 **Design Graphics and Communication M**

3 units - semester 2

48 hours of lectures and tutorials

Available for Non-Award Study

Assessment: continuous assessment, final exam - details at beginning of semester

The course introduces students to internationally accepted standards of graphical engineering communication. Students learn manual as well as computer aided drawing practices and are introduced to basic engineering design and manufacturing philosophies. Effective written and oral communication skills are an integral part of the course

MECH ENG 1007 **Engineering Mechanics - Dynamics**

3 units - semester 2

48 hours lectures and tutorials

Available for Non-Award Study

Assumed Knowledge: SACE Stage 2 Math. Studies, Specialist Maths, Physics

Assessment: mid-semester test, assignments, exam

This course teaches students how to apply Newtonian physics to relatively simple physical situations. It follows on from the Statics course, but considers systems that are not in equilibrium i.e. with velocity and acceleration. Some of the topics covered are pure kinematics (a mathematical description of motion only), while others are kinetic (determine motion in problems involving the concepts of force and energy). The course restricts itself to 2-D (planar) mechanisms.

PETROENG 1005 **Introduction to the Petroleum Industry & Petroleum Geosciences**

3 units - semester 1

48 hours lectures and discussion/presentation sessions

Available for Non-Award Study

Assumed Knowledge: SACE stage 2 Maths Studies, Specialist Maths, Physics

Assessment: Written assignments, presentation and exam

This course is comprised of two parts. The first, an overview of the petroleum industry, is designed to provide a "big picture" context for future courses and roles (potential careers) of petroleum engineers. The main streams of petroleum engineering (reservoir, drilling, production and facilities engineering) will be covered along with topical industry issues. A key feature is the participation of petroleum engineers currently working in different parts of the industry. The second part starts with a broad introduction to geological concepts and principles. This is followed by a more focussed introduction to the kind of rocks and structures in which petroleum is generated (sources) and trapped (reservoirs).

PETROENG 1006 **Introduction to the Petroleum Engineering**

3 units - semester 2

24 hrs lectures, 24 hrs tutorials

Available for Non-Award Study

Assumed Knowledge: SACE Stage 2 Maths Studies, Specialist Maths, Physics

Assessment: assignments, exam

The aim of the course is to provide students with a broad overview of and introduction to petroleum engineering in order that advanced courses in subsequent years can be understood within their context in petroleum engineering. This course covers an overview of nature of oil and gas reservoirs, petroleum exploration, drilling, completion and production, reservoir mechanics, and improved oil recovery; fundamental understanding of rock and fluid properties encountered in petroleum reservoirs; composition and PVT properties of petroleum fluids; basic

physical and chemical properties of petroleum reservoir fluids related to reservoir processes and the production of oil and gas.

LEVEL II

C&ENVENG 2001 Stress Analysis (C)

2 units - semester 2

32 contact hours lectures, tutorials, practical work

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assessment: exam, practical work, quizzes - details available beginning of semester

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, transformation of plane 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

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assumed Knowledge: C&ENVENG 1001, MATHS 1011/1012

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: shear strength, 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.

C&ENVENG 2014 Engineering Modelling and Analysis II

2 units - semester 2

32 contact hours lectures, tutorials, practical work

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assumed Knowledge: C&ENVENG 1001, MATHS 1011/1012

Assessment: classwork 20%, final exam 80%, successful completion of computer practical sessions

Introduction to numerical methods in engineering: approximations and errors; 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 lectures, tutorials, practical work, site visits

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assessment: exam, assignments

Overview of the construction and engineering industries; Contracts; Specifications; Tendering; Occupational health safety and welfare; Industrial relations; Project management; Quality assurance; Environmental aspects of construction; Engineering ethics. Civil Construction - earthworks, embankments, foundations, retaining structures, pavements and tunnels. Construction in concrete, steel, timber, masonry. Residential construction. Construction of bridges, dams, tunnels, skyscrapers and domes. Introduction to civil engineering surveying: Linear measurement; Levelling.

C&ENVENG 2025 Strength of Materials IIA

3 units - semester 1

48 hours lectures, tutorials, practical work

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assumed Knowledge: Pass (not Conceded Pass) in C&ENVENG 1001, MATHS 1011/1012

Assessment: exam, assignments

Topics to be chosen from: elastic and elastic-plastic behaviour; 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; 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 lectures, tutorials, project work

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assessment: may include assignments and/or exam - details available at 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: Water quality - water quality parameters, water quality control / River health - river regulation, ecological barriers, environmental flows, stream bank erosion, blue-green algal blooms, salinity.

C&ENVENG 2032 **Structural Design IIA**

2 units - semester 1

32 hours lectures, tutorials, design, quizzes, practical work

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assumed Knowledge: C&ENVENG 1001, C&ENVENG 2025 or C&ENVENG 2036

Assessment: may include 2 major projects, 3 quizzes - details available at beginning of course

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 lectures, tutorials, practical work, design, directed study

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assumed Knowledge: C&1001, MATHS 1011/1012 or MATHS 1013/1014

Assessment: exam 75%, assignments and quizzes 5%, laboratories 7.5%, design 12.5%

An introduction to hydraulic engineering. Description and properties of fluids: hydrostatics; buoyancy and stability; 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; laminar flow; types of turbulent flow; viscous sublayer; 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 lectures, tutorials, design, quizzes & practical work

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assumed Knowledge: Passes (not Conceded Pass) in C&ENVENG 1001, MATHS 1011/1012

Assessment: may include 2 major projects, 3 quizzes - details available at beginning of semester

Iterative nature of the design procedure developed through a preliminary design of a reinforced concrete frame; steel beam test; limit states; load paths; wind loads; buckling load of slender columns in a structural frame; deflection for inelastic beams; fundamental principles that govern the behaviour of steel and composite structures; design of steel connections.

C&ENVENG 2035 **Water Engineering II S2**

2 units - semester 2

32 hours lectures, tutorials, project work

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assumed Knowledge: MATHS 1011/1012 or MATHS 1013/1014

Assessment: may include assignments &/or exam - details available at beginning of course

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).

C&ENVENG 2036 **Strength of Materials IIE**

2 units - semester 1

32 contact hours lectures, tutorials, practical work

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assumed Knowledge: Pass (not Conceded Pass) in C&ENVENG 1001, MATHS 1011/1012

Assessment: exam, assignments

Topics to be chosen from: elastic and elastic-plastic behaviour; 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; 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.

CHEM ENG 2000 **Chemical Engineering Thermodynamics**

2 units - semester 2

48 hours lectures, tutorials

Restriction: BE(Chem), BE(Chem)/LLB, BE(Chem)/BEc, BE(Chem)/BFin, BSc, BSc(Biotech), BE(Petrol) students

Available for Non-Award Study

Assumed Knowledge: CHEM ENG 1000

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

36 hours lectures, tutorials

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assumed Knowledge: MATHS 1011/1012, CHEM ENG 1000

Assessment: assignments, final exam

Chemical process principles: process calculations (material and energy balance calculations); numerical solution of mass and energy balances.

CHEM ENG 2002 **Process Heat Transfer**

2 units - semester 2

36 hours lectures, tutorials

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assumed Knowledge: MATHS 1011/1012, CHEM ENG 1000

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.

CHEM ENG 2003 **Introductory Process Fluid Mechanics**

3 units - semester 1

48 hours lectures, tutorials

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assumed Knowledge: MATHS 1011/1012, CHEM ENG 1000

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

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assessment: project report, exam

Lectures on the principles of process design and plant engineering, electrical safety, selection of electrical machines and electrical distribution. An introductory design project, focussing on mass and energy balances, is undertaken.

CHEM ENG 2007 **Essay and Seminar (Environmental)**

2 units - semester 2

Tutorials, discussion with supervisor

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

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 & Biomolecular)**

2 units - semester 2

Tutorials, discussion with supervisor

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

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.

ELEC ENG 2007 **Signals and Systems**

3 units - semester 2

36 hours lectures, tutorials

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assumed Knowledge: ELEC ENG 1006

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 discrete-time signals and systems. Analysis and characterisation of LTI systems using Laplace

transform methods: system transfer function, pole zero representation, difference equation characterisation, transfer function of interconnected systems.

ELEC ENG 2008 Electronics II

3 units - summer semester or semester 1

45 hours lectures, tutorials

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assumed Knowledge: ELEC ENG 1006

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, tutorials

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assumed Knowledge: ELEC ENG 1006, APP MATH 2002, PHYSICS 1100/1200

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, practical work

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Prerequisite: ELEC ENG 2010A

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.

MECH ENG 2002 Stress Analysis and Design

3 units - semester 2

60 hours lectures/tutorials, practicals

Restriction: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assumed Knowledge: MECH ENG 1000, C&ENVENG 1001

Assessment: assignments, quizzes, finite element labs, laboratory experiments, exam

Concept of stress and strain, characterisation of stress-strain curves and failure of common structural materials such as metals, plastics and wood, Hooke's law in tension/compression and shear, axially loaded members, non-linear deformations, statically indeterminate structures, thermal stresses, torsion of circular bars and tubes, bending, stresses in beams, combined loading, deflection of beams, buckling instability, analysis of stress and strain, Mohr's circle, generalized Hooke's law, strain energy, intro to plasticity, intro to theories of failure, intro to design of columns, shafts, pressure vessels, welded joints, fasteners and springs and intro to the finite element analysis of truss and beam structures.

MECH ENG 2011 Mechatronics IM

2 units - semester 2

36 hours lectures, tutorials, 4 hours laboratory classes

Restriction: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assumed Knowledge: ELEC ENG 1008, MECH ENG 1000, MECH ENG 2021

Assessment: assignments, in-class quizzes, laboratory experiments, exam

To provide an introduction to the application of electronic control systems in mechanical and electrical engineering. To give framework of knowledge that allows students to develop an interdisciplinary understanding and integrated approach to mechatronic engineering.

MECH ENG 2015 Electronics IIM

3 units - semester 1

36 hours lectures, tutorials, 12 hours laboratory classes

Restriction: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assumed Knowledge: ELEC ENG 1008

Assessment: practical work, assignments, final exam

Amplifier models and imperfections. Operational amplifiers and their applications. 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, and Timer 555.

MECH ENG 2018 Design Practice

4 units - semester 1

20 hours lectures, 56 hours tutorials, 6 hours laboratory classes, 40 hours workshop practice (mid-year break)

Restriction: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assumed Knowledge: MATHS 1011/1012, C&ENVEG 1001, MECH ENG 1000

Assessment: assignments, achievement of design goals, concept report, final report, practicals, 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.

In Workshop Practice component, organized during the semester break, students will become familiar with basic workshop practices, including machining and the use of hand tools.

MECH ENG 2019 Dynamics and Control I

3 units - semester 2

48 hours lectures, tutorials, 9 hours laboratory experiments

Restriction: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assumed Knowledge: MECH ENG 1000 APP MTH 2000, ELEC ENG 1006

Assessment: small tests, assignments, laboratory experiments, final exam

Students will be introduced to various applications of feedback control systems and develop fundamentals associated with modelling, analysis, design and simulation of automatic control systems. This course also aims to introduce the basic concepts of machine dynamics and their engineering applications, and deals with the analysis, design and application of a variety of mechanisms.

MECH ENG 2020 Materials and Manufacturing

3 units - semester 1

48 hours lectures

Restriction: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assumed Knowledge: CHEM ENG 1003

Assessment: assignments, final exam

Relationship between structure and properties of materials; mechanical behaviour, testing and manufacturing properties of ferrous, non-ferrous, polymeric, ceramic and composite materials; strengthening of materials (alloying, heat-treatment); manufacturing processes, design considerations and economics for forming and shaping engineering materials (casting, forging, rolling, extrusion, injection moulding, machining)

MECH ENG 2021 Thermo-Fluids I

3 units - semester 1

48 hours lectures, 4 hours laboratory experiments

Restriction: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assumed Knowledge: MATHS 1011/1012, PHYSICS 1003

Assessment: assignments, practicals, 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.

PETROENG 2001 Reservoir Thermodynamics and Fluid Properties

3 units - semester 2

Lectures, tutorials/practicals/labs

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling.

Available for Non-Award Study

Assessment: assignments, exam

Fluid properties and the application of mass and energy balances to a variety of petroleum systems. Introduction to phase behaviour and chemical reaction equilibria (flash calculations with k-values); and equation of state applications and modeling.

PETROENG 2005 Sedimentology and Stratigraphy

3 units - semester 2

Lectures, tutorials/practicals, field trip

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling.

Available for Non-Award Study

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. The class would undertake a field trip.

PETROENG 2009 **Formation Evaluation, Petrophysics** **& Rock Properties**

3 units - semester 2

Lectures, tutorials/practicals

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

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.

PETROENG 2010 **Drilling Engineering**

3 units - semester 1

45 hours lectures and practicals

Assumed Knowledge: Higher Maths, Physics, Chemistry

The aim of the course is to provide the basic understanding in petroleum well drilling procedures, its mechanics, and design methodology. The course covers the overview of drilling rig operations and its equipments, offshore drilling and advanced drilling tools; drillstring design; directional and multilateral drilling, well trajectory calculations, drilling bit, bit economics and optimization, drilling hydraulics, drilling mud; pore pressure and fracture pressure, casing depth determination; basic well control; well planning and rig selections.

TECHCOMM 2000 **Project Management for New Ventures**

3 units - summer semester or winter semester

Intensive lectures, tutorials and practicals

Restriction: At least 2 years full-time UG study or equiv

Available for Non-Award Study

Assessment: Individual assignment, practicals, exam

Types and importance of project plans; Project Manager's responsibilities, goals and success factors; Microsoft Project; charts and other tools; time, money and quality relationships.

TECHCOMM 2001 **Foundations of Entrepreneurship**

3 units - summer semester or winter semester

13 hours Lecture, 26 hours tutorial, 6 hours workshop

Restriction: Students must have at least 24 units of UG study

Available for Non-Award Study

Assessment: individual assignment 20%, team project 40%, exam 40%

The nature and importance of entrepreneurship; the entrepreneurial process; the entrepreneurial mind; creativity, ideas and innovation; screening entrepreneurial opportunities; identifying resources to support entrepreneurial activities; intellectual property issues; accessing finance and other resources; the entrepreneurial team; assessing risk; business structure and ethics; entrepreneurial strategy; finding and reaching customers and marketing innovation; feasibility planning.

LEVEL III

C&ENVENG 3001 **Structural Mechanics IIIA**

3 units - semester 1

48 hours lectures, tutorials

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assumed Knowledge: Pass (not Conceded Pass) in C&ENVENG 2025

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

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assumed Knowledge: C&ENVENG 2033, C&ENVENG 2035

Assessment: exams, assignments

Water treatment processes; environmental geotechnics, groundwater processes and contamination.

C&ENVEG 3005 Structural Design III (Concrete)

3 units - semester 2

48 hours lectures, tutorials, project work

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assumed Knowledge: C&ENVEG 2032, C&ENVEG 2034, C&ENVEG 2025, C&ENVEG 3001

Assessment: may include assignments and/or exam or quizzes - 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&ENVEG 3007 Structural Design (Steel)

3 units - semester 1

48 hours of lectures, tutorials and project work

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assumed Knowledge: C&ENVEG 2032, C&ENVEG 2034, C&ENVEG 2025, C&ENVEG 3001

Assessment: may include assignments and/or exam or quizzes - 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&ENVEG 3008 Engineering Modelling and Analysis III

2 units - semester 2

32 hours lectures, tutorials, computer practicals, directed study

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assumed Knowledge: C&ENVEG 2014, APP MTH 2010

Assessment: exam 90%, 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&ENVEG 3009 Environmental Engineering and Design III

3 units - semester 1

48 hours lectures, tutorials, design

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assumed Knowledge: C&ENVEG 2033, C&ENVEG 2035

Assessment: exam, assignments

Water treatment processes, environmental geotechnics, groundwater processes and contamination. In addition students will carry out an environmental design.

C&ENVEG 3011 Engineering Management and Planning

2 units - semester 2

32 hours lectures, tutorials, directed study

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assessment: may include assignments and/or exam - details 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&ENVEG 3012 Geotechnical Engineering Design III

3 units - semester 2

48 hours lectures, tutorials, practical work, design, directed study

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assumed Knowledge: C&ENVEG 2006

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&ENVEG 3013 Water Engineering & Design IIIA

2 units - semester 1

32 hours lectures, design work, practical work, project work, directed study

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assumed Knowledge: C&ENVEG 2033

Assessment: may include exams, laboratory reports, design work, quizzes, projects & assignments - details 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&ENVEG 3014 **Water Engineering & Design IIIB**

2 units - semester 2

32 hours lectures, design work, practical work, site visit, directed study

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assumed Knowledge: C&ENVEG 2033, APP MTH 2010

Assessment: exam 75%, assignments/laboratories/design 25%

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&ENVEG 3066 **Engineering Communication and Language (ECL)**

3 units - semester 1 or 2

36 hours lectures, workshops

Restriction: International students from NES backgrounds who present IELTS/TOEFL for admission, or who enter via Found.St Prog or students resident in Australia with admission based on Yr 12 matric studies in a LOTE or were eligible to take an ESL unit in Yr 11/12

Corequisite: enrolment in an Engineering program

Incompatible: C&ENVEG 3000 or PURE MTH 3016 or MATHS 3015

Assessment: written assignments, formal oral presentations, discussion groups, attendance, participation, regular language work, project

Part A - This 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.

Part B - A supervised written project extending English language skills developed in Part A.

C&ENVEG 3067 **Environmental Science and Policy**

2 units - semester 1

38 hours lectures, tutorials, practical work

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assumed Knowledge: CHEM 1100

Assessment: Part A - 30 min. written exam 40%, written prac reports 30%, essay 30%; Part B - written assignments & exam - details 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.

CHEM ENG 3001 **Materials III(CH)**

2 units - semester 1

36 hours lectures, tutorials

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Prerequisite: CHEM ENG 1003

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

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

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**

4 units - full year

108 hours lectures, tutorials, practical work

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Prerequisite: CHEM ENG 2001A/B, CHEM ENG 2004

Corequisite: CHEM ENG 3015, CHEM ENG 3018, CHEM ENG 3017, CHEM ENG 3006

Assumed Knowledge: CHEM ENG 2002, CHEM ENG 2003

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 3005 **Separation Processes**

2 units - semester 2

36 hours lectures, tutorials

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assumed Knowledge: CHEM ENG 2001A/B

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

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assumed Knowledge: 6 units of Level II Applied Mathematics

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 3007WT **Winery Engineering III**

3 units - semester 1

2 lectures, 1 tutorial, 3 hours practical/project exercises per week

Restriction: students in specified programs only, please check relevant Academic Rules

Available for Non-Award Study

Assumed Knowledge: AGRONOMY 2012RW or CHEM ENG 1001, or equiv

Assessment: final exam, tutorials, project work

Application of engineering principles and practices to winemaking. 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

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assessment: exam, assignments

Introduction to the fundamentals of microbiology; proteins and enzymes; kinetics of enzyme-catalysed 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

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assumed Knowledge: CHEM ENG 1000

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

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Prerequisite: CHEM ENG 2001A/B, CHEM ENG 2004

Assessment: project report, exam

Principles of process design and plant engineering. An introductory design project is solved using computer-aided process design techniques.

CHEM ENG 3015 **Process Control and Instrumentation**

2 units - semester 2

36 hours lectures, tutorials

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assumed Knowledge: 6 units of Level II Applied Maths courses, CHEM ENG 2001A/B

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

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assumed Knowledge: 6 units of Level II Applied Maths courses, CHEM 210, CHEM 2204

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

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Prerequisite: CHEM ENG 2003

Assessment: assignments, exam

Description of particulate systems. Multiphase systems: fundamentals and application to design and analysis of physical separation and transport processes.

ELEC ENG 3015 Communications, Signals & Systems

3 units - semester 1

36 hours lectures, tutorials, assignments

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assumed Knowledge: ELEC ENG 2007, ELEC ENG 2008, STATS 2004

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 lectures, tutorials

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assumed Knowledge: ELEC ENG 2007, APP MATH 2000, APP MATH 2002, STATS 2004

Assessment: written exam, 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 lectures, tutorials, computer laboratory exercises

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assumed Knowledge: ELEC ENG 1006, ELEC ENG 2008

Assessment: written exam, assignments

Integrated Circuits - overview of implementation technologies and economics. Datapath design and arithmetic/logic units; adders and multipliers. State machine design - synchronous 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 lectures, laboratory/tutorial sessions

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assumed Knowledge: ELEC ENG 2008, ELEC ENG 2009

Assessment: written exam, 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 lectures, practical work

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Prerequisite: ELEC ENG 2010A/B, ELEC ENG 3019A

Corequisite: ELEC ENG 3018, ELEC ENG 3016

Assessment: practical exercises with informal reports, practical exercises with formal reports, laboratory & 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 lectures, tutorials, problem based learning project

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assumed Knowledge: ELEC ENG 1006, either COMP SCI 2000 or MECH ENG 3032

Assessment: written exam, assignments, project work

Review of computer architecture; organisation of microprocessor systems; memory types; input/output. Instruction set architecture and hardware interfaces. 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 lectures, tutorials

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assumed Knowledge: ELEC ENG 1006, ELEC ENG 2009

Assessment: written exam, 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 lectures, tutorials, programming exercises

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assumed Knowledge: ELEC ENG 1006, COMP SCI 2000

Assessment: assignment, 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 lectures, tutorial

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assumed Knowledge: ELEC ENG 1006 I or ELEC ENG 1008

Assessment: written exam, 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 lectures, tutorials, group project

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assumed Knowledge: ELEC ENG 2007, ELEC ENG 2008

Assessment: written exam, 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.

ENG 3002 **Engineering Communication ESL/EAL**

2 units - semester 1 or 2

24 hours lectures, workshops

Restriction: International students from NES background who present English language score (IELTS/TOEFL) for admission, or entered via Found.St.Prog or students resident in Australia with admission based on Yr 12 matric LOTE or eligible to take ESL unit in Yr 11/12

Corequisite: Engineering students only

Incompatible: not to be counted together with MATHS 3015
PURE MTH 3015

Assessment: assignment 90%, attendance 10%

This 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 is task-based. Tasks and assignments are focussed on academic writing, research and preparing evidence-based papers, reading, informal academic discussion and formal oral presentation.

MECH ENG 3014 **Mechatronics II**

2 units - semester 1

12 hours lectures, tutorials, 24 hours laboratory classes

Restriction: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assumed Knowledge: MECH ENG 2011, MECH ENG 2019

Assessment: assignments, in-class quizzes, final exam

Advanced PLC programming and implementation, memory and data types, program structure, mathematic functions, floating point operation and PLC industrial applications.

MECH ENG 3016 **Aeronautical Engineering**

2 units - semester 2

36 hours lectures, tutorials

Restriction: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

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 **Sustainability and the Environment**

2 units - semester 1

36 hours lectures, tutorials

Restriction: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assessment: assignments, final exam

Engineering ethics, noise assessment and control, air pollution assessment and control, water pollution assessment and control, sustainability, sustainable design and manufacture, sustainable buildings, sustainable energy, environmental impact statements, legislative requirements.

MECH ENG 3020 **Heat Transfer**

2 units - semester 1

36 hours lectures, tutorials, 2 hours laboratory classes

Restriction: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assumed Knowledge: MECH ENG 2021

Assessment: assignments, practical, 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, condensation, evaporation and boiling, mass transfer, heat transfer enhancement and solar radiation.

MECH ENG 3025 **Space Vehicle Design**

2 units - semester 1

36 hours lectures, tutorials

Restriction: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

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, tutorials

Restriction: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assumed Knowledge: CHEM ENG 1003, APP MTH 2000, APP MTH 2002, MECH ENG 2002

Assessment: assignments, quizzes, finite element labs, laboratory experiment, exam

Concepts of stress and strain tensors, elasticity, plasticity, viscoelasticity and creep, elementary solutions of theory of elasticity and plasticity, plane stress and plane strain states, Airy's stress function, application of the principle of minimum potential energy, contact problems, finite element analysis of 2D and 3D structures, elastic waves in solids and into fracture mechanics.

The course also 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 **Engineering Systems Design and Communication**

3 units - semester 2

60 hours lectures, tutorial, design office

Restriction: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assessment: 30% assignments, 70% final exam

This course demonstrates an Engineering Systems approach to Design Project management using a problem based learning approach. As well as covering the required engineering design considerations, the course also includes effective team work practices and project management. An essential aspect of engineering design is effective communication. Therefore 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 relevant to their current studies and intended professional careers. Areas covered include logical cohesion, writing a research paper, integrating evidence and the effective presentation of individual and group seminars. Particular attention is given to explicit engineering report writing skills.

MECH ENG 3028 **Dynamics and Control II**

3 units - semester 2

48 hours lectures, tutorials, 4-6 hours laboratory experiments

Restriction: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assumed Knowledge: 6 units of Level II Applied Maths courses, MECH ENG 2019

Assessment: assignments, laboratory experiments, final exam

Dynamic systems are found everywhere, from musical instruments to transportation vehicles such as automobiles and aircraft. Even static civil structures such as bridges and buildings exhibit a dynamic response, which must be considered during design and construction of such systems.

This course introduces the fundamental concepts of vibrating dynamical systems, from single degree of freedom systems through to continuous and multi-degree of freedom systems. Design of vibration control devices, such as vibration isolators and vibration absorbers, is also considered.

Concurrently with the introduction to vibratory systems described above, this course also addresses how to control such dynamic systems using modern state-space control. This involves time domain descriptions of dynamic systems using state-space system models. The characteristics responsible for the dynamic response (poles, zeros, eigenvalues) are presented. Control laws using state-space are introduced, including specification of controller characteristics, controller design using pole placement and optimal (LQR) control (introduction). State observers are presented, including observer design using both pole placement and optimal (Kalman) observers (introduction). Finally, a computer aided control system design methodology is applied to a real MIMO Aerospace platform and several other unstable MIMO systems.

MECH ENG 3029 **Manufacturing Engineering**

2 units - semester 2

36 hours lectures, tutorials, site visit

Restriction: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assessment: assignments, final exam

Plastics manufacturing, 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

60 hours lectures, tutorials, 8 hours laboratory classes

Restriction: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assumed Knowledge: MECH ENG 2002, 6 units of Level II Applied Maths courses

Assessment: assignments, final exam

Concepts of stress and strain tensor, elasticity, plasticity, viscoelasticity and creep, elementary solutions of theory of elasticity and plasticity, plane stress and plane strain states, Airy's stress function, application of the principle of minimum potential energy, contact problems, finite element analysis of 2D and 3D structures, elastic-waves in solids, intro to fracture mechanics, 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, tutorials, 4 hours laboratory classes

Restriction: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assumed Knowledge: MECH ENG 2021, Level II Applied Maths courses with aggregate value of 6 units

Assessment: assignments, practicals, final exam

Flow of in-viscid and viscous fluids; laminar and turbulent flow in pipes and boundary layers; friction and local losses in pipe systems; matching of pumps, fans and turbines to flow systems; 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

Restriction: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assumed Knowledge: CHEM ENG 1002, MECH ENG 2011

Assessment: assignments, 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 newly developed

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 communication. 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 and Structures**

3 units - semester 1

48 hours lectures, tutorials

Restriction: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assumed Knowledge: CHEM ENG 1003, APP MTH 2000, APP MTH 2002, MECH ENG 2002

Assessment: assignment, quizzes, finite element labs, laboratory experiment, exam

Concepts of stress and strain tensors, elasticity, plasticity, viscoelasticity and creep, elementary solutions of theory of elasticity and plasticity, plane stress and plane strain states, Airy's stress function, application of the principle of minimum potential energy, contact problems, finite element analysis of 2D and 3D structures, elastic waves in solids and into fracture mechanics.

The course also 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, tutorials

Restriction: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assumed Knowledge: MECH ENG 1000

Assessment: assignment, final exam

This course introduces the student to a variety of CAD, CAM and CAE packages that are currently available and in common use by the automotive industry. There will be hands on opportunities and the function and theories behind of each piece of software reviewed. Students are encouraged to familiarise themselves with the operation of the software through problem based assignments.

MECH ENG 3035 **Automotive Combustion Technology**

2 units - semester 2

36 hours lectures, practicals

Restriction: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assumed Knowledge: MECH ENG 2021

Assessment: assignments, practical, final exam

This subject introduces the students to internal combustion engines, their efficiency and pollutant emissions. It looks at the various emerging power technologies in the automotive industry and the current and alternatives fuels and combustion processes. Choice of fuel and the design of efficient engine operating parameters and their by products will all be discussed.

MECH ENG 3036 **Automotive Power Train and Vehicle Dynamics**

2 units - semester 2

36 hours lectures, tutorials, 3 hour laboratory class

Restriction: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assumed Knowledge: MECH ENG 2021, MECH ENG 2019

Assessment: assignment, laboratory experiment, final exam

Powertrain: Engine design and performance parameters, Real engine operating characteristics, Transmission types and analysis, Driveline design, Hybrid powertrains.

Vehicle Dynamics: Vehicle control stability and handling, tyre construction, tyre operation and analysis, steady state handling, 2 degree-of-freedom model of vehicle dynamics, stability and control derivatives, steady state vehicle response and transient vehicle response.

PETROENG 3001 **Reservoir Simulation**

3 units - semester 2

Lecture, tutorials

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling.

Available for Non-Award Study

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 3005 **Reservoir Characterisation and Modelling**

3 units - semester 1

Intensive short course of integrated lectures and computer based worked examples

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

Restriction: for students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

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 3019 **Structural Geology and Seismic Methods**

3 units - semester 2

Lectures, practicals

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

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: Principles of reflection seismology, such as wave propagation phenomena, and seismic velocity and resolution. Data acquisition and processing methods, mechanics of seismic interpretation. Velocity anomalies and depth conversion. Techniques for evaluating reservoir and fluid properties, such as seismic attributes, DHIs and AVO, and time lapse seismology

PETROENG 3020 **Production Engineering and Optimisation**

3 units - semester 1

Project discussions, project work, presentation

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

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).

PETROENG 3025 Reservoir Engineering

3 units - semester 2

Lectures, tutorials/practicals

Available for Non-Award Study

Assumed Knowledge: PETROENG 1001

Assessment: assignments, exam

Darcy's Law and Applications, Concepts of permeability, Relative permeability, Capillary pressure, Wettability, Material Balance Equations for Different Types of Reservoirs and Drives, Aquifer Behaviour and Water Influx, Immiscible Displacement, Buckley-Leverett theory, Gravity-Stable Displacement, Water and Gas Injection, Coning and Cupping.

PETROENG 3023 Well Completion

3 units - semester 2

45 hours lectures and practicals

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Prerequisite: PETROENG 2010

Assumed Knowledge: Higher Maths, Physics, Chemistry

Assessment: Assignments, exams

The objective of this course is to provide students the broad understanding of petroleum well completion process. The course covers the fundamental principles of the design and evaluation of well completions, casing design in various loading condition with various downhole situations, placement of casing, liners and well tubing; cementing techniques; perforation techniques; gravel packing; sand control and measurement, use of different sand control devices; fundamentals of fracturing including acid fracturing and hydraulic fracturing. This course also covers the broad overviews of various completion techniques, tools, and wellhead types, and their limitations.

PETROENG 3024 Petroleum Exploration and Management

3 units - semester 1

Lectures, seminars and exercises

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assessment: assignments, exams

The course illustrates geoscience and management concepts and methods that are used in petroleum exploration. Petroleum systems are reviewed with emphasis on source rock organic geochemistry and hydrocarbon generation, expulsion and migration. The concepts of petroleum plays and prospects are introduced

and illustrated with examples from around Australia. Management strategies associated with hydrocarbon exploration and reserve estimation are also covered.

TECHCOMM 3000 Innovation and Creativity

3 units - summer semester or winter semester

Intensive: 13 hours lectures, 26 hours tutorial, 6 hours workshop

Restriction: At least 2 years full time undergraduate study

Available for Non-Award Study

Assumed Knowledge: TECHCOMM 2001

Individual and group creativity; barriers to creativity and approaches for overcoming these; methods for generating or recognising ideas; alternatives or possibilities to solve commercial or operational problems; turning creativity into innovation that benefits the customer and the business venture; bringing creativity and innovation into the organisation and building an environment to support these activities; creative scenarios for the future for the organisation.

TECHCOMM 3001 New Venture Planning

3 units - summer semester or winter semester

Intensive: Lectures and practicals

Restriction: At least 2 years full-time UG study

Available for Non-Award Study

Assumed Knowledge: TECHCOMM 2001

Assessment: Individual assignments, group project, journal

The strategic planning process; the business planning framework; feasibility planning; undertaking a strategic analysis; developing strategies for the marketing, production, organisational and financial aspects of the business; innovation strategy planning; financial forecasting for entrepreneurs; business planning in practice; presenting the deal.

LEVEL IV

C&ENVENG 4003A/B Civil and Structural Engineering Research Project

6 units - full year

120 hours directed study

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Prerequisite: all Level I, II & III courses to be passed before entering Level IV except by permission of Head of Discipline - students must enrol in Part A in semester prior to Part B

Assessment: evaluation of research including: research report, conference paper, literature review, poster & oral presentations

Students work in groups on a research project under the supervision of an academic staff member.

C&ENVEENG 4005A/B **Civil and Environmental Research Project**

6 units - full year

120 hours directed study

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Prerequisite: All Level I, II & III courses to be passed before entering Level IV except by permission of Head of Discipline - students must enrol in Part A in semester prior to Part B

Assessment: evaluation of research including: research report; conference paper; literature review; poster & oral presentations.

Students work in groups on a research project under the supervision of an academic staff member.

C&ENVEENG 4034 **Engineering Management IV**

3 units - semester 1

24 hours lectures, workshop sessions, project work

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Prerequisite: all Level I, II & III courses to be passed before entering Level IV except by permission of Head, of Discipline

Assessment: may include assignments &/or exam - further details available at beginning of 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. These skills are developed through group projects, presentations and a competitive project proposal.

C&ENVEENG 4037 **Introduction to Environmental Law**

3 units - semester 2

24 hours lectures, tutorials

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Prerequisite: all Level I, II & III courses to be passed before entering Level IV except by permission of Head of Discipline

Assessment: may include assignments &/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&ENVEENG 4068 **Computer Methods of Structural Analysis and Design**

3 units - semester 2

24 hours lectures, tutorials, practicals; directed study

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Prerequisite: all Level I, II & III courses to be passed before entering Level IV except by permission of Head of Discipline

Assessment: may include assignments &/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&ENVEENG 4069 **Advanced Reinforced Concrete**

3 units - offered in odd years

25 hours lectures, tutorials, directed study

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Prerequisite: all Level I, II & III courses to be passed before entering Level IV except by permission of Head of Discipline

Corequisite: Students must be enrolled in an Engineering degree

Assessment: design, tutorials, exam

This course is intended to provide students with a deeper fundamental understanding of the behaviour of reinforced concrete (RC) structures. Emphasis will be placed on inelastic behaviour of RC members. Topics covered will include: elastic and inelastic response of RC members; confinement of RC columns; behaviour of RC beams in shear; and use of new and advanced materials in RC

C&ENVEENG 4070 **Structural Dynamics due to Wind and Earthquakes**

3 units - not offered in 2007

24 hours lectures, tutorials, directed study

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Prerequisite: all Level I, II & III courses to be passed before entering Level IV except by permission of Head of Discipline

Assessment: coursework 40%, final exam 60%

Students will learn in this course how the basic stiffness method of structural analysis for static loading is extended to analyse the dynamic response of structures subject to dynamic loading such as that caused by blast, wind and earthquake. Emphasis will be placed on practical elastic and inelastic analysis techniques. Importantly, simplified

methods for characterisation of dynamic loads as “equivalent” static forces and the treatment of structural damping will also be covered.

C&ENVENG 4071 **Special Topics in Civil and Structural Engineering IV**

3 units - semester 1 or 2

24 hours lectures, tutorials, directed study

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Prerequisite: all Level I, II & III courses to be passed before entering Level IV except by permission of Head of Discipline

Assessment: may include assignments and/or exam - details at beginning of semester

Advanced topics in civil and structural engineering.

C&ENVENG 4073 **Water Distribution Systems and Design**

3 units - semester 2

24 hours lectures, tutorials, directed study

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Prerequisite: all Level I, II & III courses to be passed before entering Level IV except by permission of Head of Discipline

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 **Water Resources Optimisation and Modelling**

3 units - semester 2

24 hours lectures, tutorials, project work

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Prerequisite: all Level I, II & III courses to be passed before entering Level IV except by permission of Head of Discipline

Assessment: may include assignments, presentations, projects &/or exam - details at beginning of semester

Topics selection from: Optimisation and computer simulation techniques applied to the planning and management of water resources systems; multiobjective planning; assessment of risk, uncertainty and reliability; design project.

C&ENVENG 4077 **Coastal Engineering and Design**

3 units - semester 2

24 hours lectures, tutorials, project work

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Prerequisite: all Level I, II & III courses to be passed before entering Level IV except by permission of Head of Discipline

Assessment: exam 60%, design 30%, tutorials 10%

The course is based on waves and wave theories, tides, sediment transport, nearshore coastal processes, wave generation, ocean outfalls, coastal management.

C&ENVENG 4079 **Deep Foundation Engineering and Design**

3 units - semester 1

24 hours lectures, tutorials, project work

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Prerequisite: all Level I, II & III courses to be passed before entering Level IV except by permission of Head of Discipline

Assessment: exam 50%, coursework 50%

Advanced topics in the design of deep foundations, including numerical methods: analysis and design of pile foundations for vertical and/or lateral loading; dewatering of excavations.

C&ENVENG 4081 **Expansive Soils and Footing Design**

3 units - not offered in 2008

24 hours lectures, tutorials, project work

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Prerequisite: all Level I, II & III courses to be passed before entering Level IV except by permission of Head of Discipline

Assessment: coursework

The nature, behaviour and distribution of expansive soils in the urban environment. Soil suction and its measurement. The definition, measurement and accuracy of instability index and surface heave. Design of footings on expansive soils using the deemed-to-comply method, the Mitchell and Walsh computer models, and a probabilistic approach. The influence of trees and vegetation on expansive soil behaviour and footing design. Assessment of houses damaged as a result of expansive soil movement. Techniques to mitigate the influence of expansive soils. At the end of this course, students will be able to design residential footings to current practice.

C&ENVENG 4085 **Traffic Engineering and Design**

3 units - semester 1

24 hours lectures, tutorials, directed study

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Prerequisite: all Level I, II & III courses to be passed before entering Level IV except by permission of Head of Discipline

Assessment: may include assignments &/or exam - details 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 4087 **Environmental Modelling, Management and Design**

3 units - not offered in 2007

24 hours of lectures, assignment, design & directed study

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Prerequisite: all Level I, II & III courses to be passed before entering Level IV except by permission of Head of Discipline

Assessment: may include assignments & exam - details at beginning of semester

The course addresses the major steps in the development of engineering models, and how they are used for decision-making, with a particular emphasis on water quality. Topics to be covered include one or more of the following: 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, environmental decision-making.

C&ENVENG 4090 **Special Topics in Civil and Environmental Engineering IV**

3 units - semester 1 or 2

24 hours lectures, tutorials, directed study

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Prerequisite: all Level I, II & III courses to be passed before entering Level IV except by permission of Head of Discipline

Assessment: may include assignments & exam - details at beginning of semester

Advanced topics in civil and environmental engineering.

C&ENVENG 4091 **Waste Management Analysis and Design**

3 units - semester 2

24 hours lectures, tutorials, directed study

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Prerequisite: all Level I, II & III courses to be passed before entering Level IV except by permission of Head of Discipline

Assessment: may include assignments & exam - details 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

24 hours lectures, tutorials, project work

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Prerequisite: all Level I, II & III courses to be passed before entering Level IV except by permission of Head of Discipline

Assessment: may include written assignments & exam - details at beginning of semester

Characteristics of wastewater; primary, secondary and tertiary treatment methods; sludge disposal; project: design of wastewater treatment plant.

C&ENVENG 4096 **FRP Retrofitting of Concrete Structures**

3 units - not offered in 2008

24 hours lectures, tutorials, directed study

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Prerequisite: all Level I, II & III courses to be passed before entering Level IV except by permission of Head of Discipline Assumed Knowledge: undergraduate structural design principles

Assessment: 2 design reports and/or quizzes - details at beginning of semester

The maintenance, upgrade, strengthening and stiffening of existing reinforced concrete structures is a large growth area in civil engineering. A new retrofitting technique using externally bonded plates, in particular fibre reinforced polymer (FRP) plates, is being developed and applied in practice worldwide and has been found to be convenient, inexpensive and unobtrusive. The fundamental principles behind this new retrofitting technique, the development of new design rules and their application in practice are described. The course covers: the use of all types of plates such as FRP and steel plates; externally bonded, near surface mounted and bolted plates; all debonding mechanisms; strength, stiffness and ductility of plated beams; plating for strength and serviceability; increasing the flexural and shear strength by plating; and examples of retrofitting of plating in practice.

C&ENVENG 4097 **Analysis of Rivers and Sediment Transport**

3 units - not offered in 2008

24 hours lectures, tutorials/design, practicals

Available for Non-Award Study

Assumed Knowledge: C&ENVENG 2033, C&ENVENG 2035 S2, C&ENVENG 3013, C&ENVENG 3014 or equiv

Assessment: exam 50%, tutorials/design 30%, practicals 20%

This course will examine advanced topics in open Channel Flow such as curvilinear flows, unsteady flow, super-critical transitions. These will be followed by an introduction to River Mechanics and modelling flow in 2D and 3D situations, such as meandering channels and flow around piers and other structures. The course will then introduce concepts in sediment transport and examine techniques to predict the threshold of motion, sediment transport rates as well as local scour and morphology changes. The lectures will be used to introduce topics and the students will be expected to gain a greater understanding of the material through the design and tutorials and through their own self study.

C&ENVENG 4098 **Water Resources Sustainability and Design**

3 units - semester 1

24 hours lectures, tutorials, design

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Prerequisite: all Level I, II & III courses to be passed before entering Level IV except by permission of Head of Discipline

Assumed Knowledge: C&ENVENG 2033, C&ENVENG 2035, C&ENVENG 3013, C&ENVENG 3014

Assessment: essay, short talk, design project, exam

Reliability and sustainability issues of water resources; drought assessment; multi objective evaluation of water resources projects; sustainability assessment and modelling; design project.

C&ENVENG 4099 **Structural Response to Blast Loading**

3 units - Odd Years only

24 hours lectures

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Prerequisite: all Level I, II & III courses to be passed before entering Level IV except by permission of Head of Discipline

Assessment: assignments and/or quizzes

With the increased world tension, terrorist bombing attacks are becoming a more and more realistic threat to society. These terrorist attacks usually target populated facilities such as office buildings and hotels, as well as diplomatic and military facilities, resulting in not only enormously economic loss, but also injuries and fatalities, social disruption and psychological impact to society. To reduce the consequences, it is essential to study characteristics of structural response to blast loading and to develop effective blast resistant systems that can be applied to protect the building's occupants. In this course,

theory of wave propagation in media is addressed first; then empirical formulae to estimate blast loads around a structure at difference scaled distances are described; after that material models for reinforced concrete and masonry under high strain rate are reviewed; later on characteristics of structural response to blast loading is analysed and blast design procedures for structural members are introduced; finally retrofitting technologies are developed to strengthen RC and masonry structures against blast loading

CHEM ENG 4001 **Special Studies in Chemical Engineering**

2 units - semester 1 or 2

36 hours lectures, tutorials or equiv

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Assumed Knowledge: as prescribed by Head, Chem. Engineering

Assessment: may include written assignments and/or exam - 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

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Incompatible: by permission of Head, Chem. 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

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assumed Knowledge: CHEM ENG 3015

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

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assessment: assignments, exam

The application of chemical engineering principles to minerals processing operations, including flotation, size reduction, gravity separation and hydrometallurgy

CHEM ENG 4006 Special Management Studies

2 units - semester 1 or 2

36 hours lectures, tutorials

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assessment: assignments, exam

Specialist management topics, including quality improvement through the application of statistical methods.

CHEM ENG 4008 Biochemical Engineering

2 units - semester 1

36 hours lectures, tutorials

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

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

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assumed Knowledge: CHEM ENG 3018, CHEM ENG 3006

Assessment: assignments, exams

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

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assumed Knowledge: material contained in Level I-III courses in BE (Chem) program, CHEM ENG 3005

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 4014 Plant Design Project

6 units - semester 2

184 hours lectures, tutorials, practical work

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Corequisite: CHEM ENG 4010

Assumed Knowledge: CHEM ENG 3014

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 4018 Industrial Economics and Management

2 units - semester 2

36 hours lectures, tutorials

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

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

100 hours practical work/seminars

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

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

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

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 4024 **Environmental Engineering**

2 units - semester 1

36 hours lectures, tutorials

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

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

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Corequisite: CHEM ENG 4010

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

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

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

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

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 - semester 1

36 hours lectures, tutorials

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assumed Knowledge: CHEM ENG 3014

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 2008

184 hours lectures, tutorials, practical work

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Corequisite: CHEM ENG 4010

Assumed Knowledge: CHEM ENG 3014

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 and Development**

2 units - semester 1

36 hours lectures, tutorials

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

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 - semester 2

184 hours lectures, tutorials, practical work

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Corequisite: CHEM ENG, CHEM ENG 4024

Assumed Knowledge: CHEM ENG 3014

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..

ELEC ENG 4032 **Advanced Electromagnetics**

2 units - not offered 2008

24 hours lectures, tutorials

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assumed Knowledge: ELEC ENG 4044

Assessment: written exam, within-semester quizzes, 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 lectures, tutorials

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assumed Knowledge: ELEC ENG 4046

Assessment: written exam, 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 4035 **Communications IV**

2 units - semester 1

24 hours lectures, tutorials

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assumed Knowledge: ELEC ENG 3015, ELEC ENG 2007

Assessment: written exam, 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 practical work

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Prerequisite: ELEC ENG 3015, ELEC ENG 3016, ELEC ENG 3017, ENG 3019A/B, ELEC ENG 3020

Assessment: performance during project work, 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 lectures, project work

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assumed Knowledge: ELEC ENG 2008, ELEC ENG 3017 or equiv

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 lectures

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

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 4040

Management and Professional Practice for Engineers

2 units - semester 1

24 hours lectures

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

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 lecture, tutorials

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Corequisite: ELEC ENG 4035

Assumed Knowledge: principles of transmission line propagation - ELEC ENG 2008, ELEC ENG 3015, ELEC ENG 3018, ELEC ENG 4044

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 lectures, tutorials

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assumed Knowledge: ELEC ENG 1006 or ELEC ENG 1008, ELEC ENG 2008 or equiv

Assessment: written exam, quizzes, semester assignments

Power electronics: characteristics of power electronic devices and classes of power converters. Power supplies (uninterruptible, 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 lectures, tutorials

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assumed Knowledge: ELEC ENG 2008

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 lectures, tutorials

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assumed Knowledge: ELEC ENG 3018

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 lectures, tutorials

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assumed Knowledge: ELEC ENG 2007

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 localisation and multiresolution.

ELEC ENG 4046 **Telecommunications IV**

2 units - semester 1

24 hours lectures, tutorials

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assumed Knowledge: ELEC ENG 3015

Assessment: written exam, assignments

Circuit-switched networks: performance, Signalling System #7, ISDN. 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 - not offered 2008

24 hours lectures, tutorials

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assumed Knowledge: as prescribed by the Head of Discipline

Assessment: may include tests, written exam, assignment - details provided at the start of semester

Special topics in Electrical and Electronic Engineering, as determined by the Head of the School.

ELEC ENG 4048 **Automotive Electrical and Electronic Systems**

2 units - semester 1

36 hours of lectures, tutorials

Available for Non-Award Study

Assumed Knowledge: ELEC ENG 1006, MATHS 1012

Assessment: Quizzes, assignment

History and timeline of automotive electrical systems. Conventional automotive electrical systems including power sources, power generation and distribution, auxiliary instrumentations including sensors, control and protection circuits. Electric motors used in automobiles, associated control systems, drive circuits and selection criteria. Advanced automotive systems: future energy resources including fuel cells, hybrid and all-electric automobiles and drive systems, efficiency and performance comparisons, case studies of real and proposed cars, control bus with distributed power systems, advanced accessories including drive by wire and active suspension, torque control. Other issues including principles of intelligent roads, line tracking, eye tracking.

ELEC ENG 4049 **Analog Microelectronic Systems**

3 units - semester 2

45 hours lectures, tutorials and practical work

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assumed Knowledge: ELEC ENG 3017, ELEC ENG 3018 or equiv

Assessment: project work, written exam, tests during semester

Review of fabrication processes, design rules and transistor models. Layout issues; ASIC design flow; simulators and performance estimation; current sources and references; operational and transconductance amplifiers; current mode circuits; data conversion systems; switched capacitor systems; phase locked loops. A major project involving the design of a mixed signal microelectronic circuit

ELEC ENG 4050 **Systems Engineering**

2 units - semester 2

30 hours lectures, tutorials

Assessment: exam, assignment.

The principles of systems engineering. Specification, design, verification, implementation, integration, testing and though-life maintenance of complex systems as in interdisciplinary activity. Systems thinking. Relationship to project management.

ELEC ENG 4051 **Introduction to Electronic Defence Systems**

2 units - semester 2

24 hours lectures, 6 hours tutorials

Assumed Knowledge: ELEC ENG 3018, ELEC ENG 2007, ELEC ENG 2009

Assessment: tests, computer-based simulation, assignment

This subject aims to introduce student to the basic operating principles of electronic defence systems such as radar, electronic warfare and satellite navigation systems

ELEC ENG 4052 **Special Studies in EEE**

3 units - semester 1 or 2

Available for Non-Award Study

Topics as specified by Head of School

MECH ENG 4002 **Combustion Technology and Emissions Control**

2 units - semester 1

36 hours lectures, tutorials

Restriction: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assumed Knowledge: MECH ENG 2021, MECH ENG 3031, MECH ENG 3020

Assessment: assignments, project, virtual combustion laboratory, 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, modelling and safety.

MECH ENG 4003 Fracture Mechanics

2 units - semester 2

36 hours lectures, tutorials

Restriction: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assumed Knowledge: MECH ENG 2002, MECH ENG 3030, APP MTH 2000

Assessment: assignments, FE project, final exam

The focus of this course is on the principles of linear elastic and elasto-plastic fracture mechanics and their application to engineering design. The material is presented in a conversational, yet rigorous, manner with the focus on basic concepts, models and techniques devised to solve specific engineering problems. The choice of the subject matter was determined largely by needs of aeronautical and mechanical engineering, although it is believed that the subject matter will be found just as useful for automotive, civil engineering and naval architecture.

MECH ENG 4004 Engineering Acoustics

2 units - semester 1

36 hours lectures, tutorials

Restriction: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assumed Knowledge: Level II Applied Maths courses with aggregate value of 6 units, MECH ENG 3017

Assessment: assignments, laboratory class, final exam

The 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, mufflers.

MECH ENG 4011 Advanced Automatic Control

2 units - semester 1

36 hours lectures, tutorials

Restriction: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assumed Knowledge: MECH ENG 2019, MECH ENG 3028

Assessment: tutorials, assignments, laboratories, exams (written & 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, tutorials

Restriction: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assumed Knowledge: MECH ENG 3020

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; energy efficiency in buildings.

MECH ENG 4020 Advanced Vibrations

2 units - semester 1

36 hours lectures, tutorials, 6 hours laboratory experiments

Restriction: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assumed Knowledge: MECH ENG 3028

Assessment: assignments, laboratory experiments, final exam

Students will be introduced to advanced multi-degree of freedom system analysis techniques for vibroacoustic systems. including modal analysis, statistical energy analysis and finite element analysis

MECH ENG 4023 Advanced Topics in Fluid Mechanics

2 units - semester 2

36 hours lectures, tutorials, project work

Restriction: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assumed Knowledge: C&ENVENG 1001, MECH ENG 1000, MECH ENG 2021, MECH ENG 3031

Assessment: assignments, project, final exam

The course provides an overview of modern flow measurement and analysis techniques and the methods used to interpret velocity and flow data. The course then introduces the concepts and techniques of flow topology and vortex dynamics, and uses these to describe the flow phenomena associated with fundamental flows, engineering flows and flows in nature. A project is undertaken by each student, involving a literature review, analysis or experiment. Projects are assessed on the basis of a short report and a presentation to the class.

MECH ENG 4024 **Materials Selection and Failure Analysis**

2 units - semester 2

36 hours lectures, tutorials

Restriction: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assumed Knowledge: CHEM ENG 1003

Assessment: written exam 70%, assignments 30%

To introduce students to various tools that can be used to select the appropriate material for a given application. Examination of various failure modes to allow students to identify these modes in real samples and apply material selection and failure analysis techniques to failure prevention.

MECH ENG 4026 **Environmental and Architectural Acoustics**

2 units - semester 2

36 hours lectures, tutorials

Restriction: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assumed Knowledge: MECH ENG 3017

Assessment: assignment, project, final exam

This course will provide an introduction to the use of computer modelling in environmental, architectural and the general noise level and acoustic performance prediction.

MECH ENG 4027 **Robotics M**

2 units - semester 1

24 hours lectures, 12 tutorials

Restriction: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assumed Knowledge: MATHS 1011/1012, MECH ENG 2019 I, MECH ENG 3028

Assessment: assignments, project, exam

Classification of robotic systems; transformation of coordinates; robotic arm kinematics and inverse kinematics; Jacobians and robot dynamics; trajectory generation; robotic modelling; control loops for robots; mobile robots, machine vision basics; other robots

MECH ENG 4028 **Mechatronics IIIM**

2 units - semester 2

36 hours lectures, tutorials

Restriction: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assumed Knowledge: MECH ENG 2015, MECH ENG 2011, MECH ENG 2019, MECH ENG 3028

Assessment: assignments, exam

Practice oriented course; design of advanced mechatronics systems; the use of Digital Signal

Processors (DSP) and Field-Programmable Gate Arrays (FPGA) in mechatronics applications; Artificial Intelligence (AI) algorithms and AI applications for robotics and mechatronics.

MECH ENG 4033 **Mechanical Signature Analysis**

2 units - semester 2

36 hours lectures, tutorials

Restriction: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assumed Knowledge: MECH ENG 2011, APP MTH 2000

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 and fault diagnosis; rotor balancing.

MECH ENG 4034 **Aerospace Navigation and Guidance**

2 units - semester 2

36 hours lectures, tutorials

Restriction: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assessment: assignment, final exam

The fundamentals of navigation technology, coordinate frames, navigation principles, inertial navigation technology, radio navigation, satellite navigation, navigation error modelling, integrated navigation and Kalman filtering, aircraft flight planning, optimal launch and flight path planning.

MECH ENG 4036 **Aerospace Propulsion I**

2 units - semester 1

36 hours lectures, tutorials

Restriction: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

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

36 hours lectures, tutorials

Restriction: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assessment: assignment, final exam

Introduction to advanced rocket and air-breathing (gas turbines, ramjets, ducted rockets, scramjets) jet propulsion systems. Prediction of thrust, combustion reactions, specific fuel consumption and operating performance. Aerothermodynamics of inlets, combustors, nozzles, compressors, turbines.

MECH ENG 4038 **Engineering Management and Professional Practice**

2 units - semester 1

40 hours lectures, tutorials

Restriction: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assessment: assignments, final exam

Management of people, management of technical risk, management of safety and environmental risk, management of economic and financial risk, marketing, business engineering, legal issues and responsibilities, ethics and project management.

MECH ENG 4039 **Finance for Engineers**

2 units - semester 2

36 hours lectures, tutorials

Restriction: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

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.

MECH ENG 4040 **High-Speed Aerodynamics**

2 units - semester 1

36 hours lectures, tutorials

Restriction: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assessment: assignments, final exam

The aim of this course is to introduce students to the fundamentals and practical aspects of supersonic and hypersonic flows and the design and operation of high-speed vehicles. The course deals with the theory of compressible flow; flow in pipes, variable-area ducts and engine intakes; supersonic external flow around wings and bodies; hypersonic flows theory and the flow around hypersonic vehicles, including re-entry vehicles.

MECH ENG 4041A/B **Mechanical Design Project Level IV**

8 units - full year

360 hours project work

Restriction: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling

Incompatible: 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 school 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, tutorials

Restriction: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assessment: project, practical class, assignments, final exam

The lectures will cover the following topics: building fire safety fundamentals, basic concepts of fire and explosion, zone and field fire modelling, 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.

MECH ENG 4043 **Automotive NVH and Aerodynamics**

2 units - semester 1

36 hours lectures, tutorials

Restriction: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assessment: laboratory, assignment, final exam

Introduction to Vehicle Refinement, Characteristics of sound, Exterior noise and control, Interior noise and control, Vehicle ride improvement, Introduction to and fundamentals of road vehicle aerodynamics, aero-acoustics, vehicle aerodynamic design, Special topics and Industry lectures.

MECH ENG 4044 **Automotive Safety**

2 units - semester 2

36 hours lectures, tutorials

Restriction: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assessment: laboratory, assignment, final exam

This subject will cover vehicle and road safety topics and teach impact dynamics from a crash safety perspective. Students will be able to solve problems involving impact dynamics.

MECH ENG 4045 Advanced Manufacturing and Quality Systems

2 units - semester 2

36 hours lectures, tutorials

Restriction: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assessment: assignment, final exam

The course will cover the principles of quality management and continual improvement, including: Justification for quality management and continual improvement, Overview of quality management system types, TQM, Lean Systems and The Six-Sigma Process, Advanced Product Quality Planning, Design Failure Mode Effect Analysis (DFMEA), Process Failure Mode Effect Analysis (PFMEA), Design Verification Plan and Report (DVP&R) and Case Studies.

MECH ENG 4046 CFD for Engineering Applications

2 units - semester 1

36 hours lectures, tutorials

Restriction: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assessment: assignment, final exam

The course will equip the students with the necessary knowledge to use advance computational techniques to solve problems related to flow mechanics. In particular, students will have hands on experience in using computational fluid dynamics to solve engineering problems. Numerical representation of flow behaviour and solution schemes and convergence criteria will also be covered in the course.

MECH ENG 4048A/B Automotive Design Project Level IV

8 units - full year

360 hours project work

Restriction: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling

Incompatible: 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 school research, with a primary emphasis on engineering design. Emphasis will also be placed on management and effective communication.

MECH ENG 4050A/B Mechatronics Design Project Level IV

8 units - full year

360 hours project work

Restriction: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling

Incompatible: 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 school research, with a primary emphasis on engineering design. Emphasis will also be placed on management and effective communication.

MECH ENG 4051A/B Aerospace Design Project Level IV

8 units - full year

360 hours project work

Restriction: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling

Incompatible: 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 school research, with a primary emphasis on engineering design. Emphasis will also be placed on management and effective communication.

MECH ENG 4053 Advanced Digital Control

2 units - semester 2

36 hours lectures, tutorials

Restriction: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assessment: assignments, final exam

Design and analysis of mechatronic systems; microcontroller and high end processors for mechatronic system control; artificial intelligence algorithms and their applications, digital state-space control design.

MECH ENG 4054 Introduction to Biomedical Engineering

2 units - Not offered in 2008

36 hrs Lectures, tutorials

Restriction: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assessment: Assignments

Some important transport processes in the human body, major differences in transport phenomena in engineering and physiology. Momentum, heat and mass transfer equations, applications and summary of transport-rate and equations of state, bioheat transfer processes, body temperature regulation, energy expended in respiratory gases, mixing of two gas samples, Heat exchange

between two bodies, flow of energy in biological world. Material balances in living systems, material balances around a normal lung, and around an artificial kidney.

MECH ENG 4055 **Stresses in Plates and Shells**

2 units - semester 2

36hrs Lectures, tutorials

Restriction: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assumed Knowledge: APP MTH 2000, APP MTH 2002, APP MTH 2009

Assessment: Assignments, exam

The course examines fundamentals of the theory of surfaces, Kirchhoff Hypotheses, fundamental equations of the classical plate theory, symmetrical bending of circular plates, bending of rectangular plates, anisotropic plates and plates of various shapes, Navier's solution and Levy's method for rectangular plates, special and approximate methods in theory of plates and shells, thermal stresses in plates, theory of edge effect, buckling, membrane theory of shells, bending theory of axisymmetrically loaded circular cylindrical shells and its application to pipes, tanks and pressure vessels, finite element analysis of plate and shell structures.

MECH ENG 4057 **Biomechanical Engineering**

2 units - semester 2

36 hrs Lectures, tutorials

Restriction: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assessment: Assignments, exam

This course will provide an introduction to the fundamentals of the structure and mechanics of the musculoskeletal system with application of mechanics to bone, tendon, cartilage, ligaments and other biological materials. The structure and function of the major joints in the body will be covered, such as the hip, knee and spine as well as multiple joint systems such as the shoulder, wrist and hand. Experimental and analytical methods used to understand the function of joints and artificial joints will be discussed throughout the course. At completion of this course, students will understand the concept of joint biomechanics and their function, and how artificial joints function, why they fail, as well as their limitations and emerging new technologies in the biomechanics field.

MECH ENG 4059 **Finite Element Analysis of Structures**

2 units - semester 1

36 hours lectures, tutorials

Restriction: available to students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assumed Knowledge: CIV ENG 1001, MECH ENG 1000, MECH ENG 2002, MECH ENG 2021, APP MTH 2000

Assessment: assignments, projects & final exam

The course will equip the students with the necessary knowledge to use computational techniques to solve problems related to solid mechanics. In particular, students will have hands-on experience in using finite element analysis to solve realistic engineering problems.

MECH ENG 4061 **Corrosion Principles and Prevention**

2 units - semester 2

36 hours lectures and tutorials

Restriction: Available to students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assessment: assignments and final exam

Fundamentals of corrosion: free energy of oxidation, oxidation and reduction reactions, Pourbaix diagrams, corrosion kinetics, polarisation curves, passivation. Design against corrosion. Investigating corrosion failures. Atmospheric and general corrosion, bimetallic corrosion. Differential aeration corrosion; pitting, corrosion, MIC. Environmentally assisted cracking, erosion. Case studies into corrosion failures, identifying mechanisms and evaluating mitigation strategies

MECH ENG 4062 **Aircraft Design**

2 units - semester 1

36 hours lectures/tutorials/other

Assessment: assignments 30%, exam 70%

The course focuses on aircraft conceptual design methods and techniques. It firstly introduces the weight estimation methods of an aircraft. It is followed by sensitivity analysis and sizing diagram calculation of target flying vehicles, as well as pros and cons of different layout schemes of aircraft. The course is concluded by presenting design projects and discussing the achieved results by the students.

MECH ENG 4063 **Advanced Topics in Aerospace Engineering**

2 units - semester 2

36 hours lectures and tutorials

Restriction: Available to students in specified programs only, please check Academic Rules in which you are enrolling

Available for Non-Award Study

Assessment: assignments, final exam

The course focuses on design and analysing the new and advanced types of flying vehicles. It firstly introduces the methods of calculating the stability, aerodynamic derivatives and handling quality parameters of an aircraft. It is followed by flight test analysing as well as unmanned aerial vehicle design methods. The course is concluded by introducing the satellite, hypersonic vehicle and helicopter design method.

PETROENG 4002 **Enhanced Oil Recovery**

3 units - semester 1

Lectures, tutorials

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

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 **Development Geology**

2 units - semester 1

Lectures, tutorials

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

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 4004A/B **Petroleum Engineering Honours Project**

6 units - full year

240 hours minimum: project work & discussions, project work presentation

Restriction: Honours students only

Assessment: major research/study assignment & written report, presentation of project - students are expected to work a minimum four weeks on projects

Honours 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 honours 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.

PETROENG 4007 **Oil and gas Resources and Reserves**

2 units - semester 1

Lectures & tutorials

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

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 4009 **Integrated Reservoir Management**

2 units - semester 2

Lectures, tutorials

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

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 4022 **Integrated Field Development and Economics Project**

3 units - semester 2

Lectures, tutorials

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assessment: assignments, project (written & oral presentation)

Field Development Planning for oil and gas fields, 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 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. Participants work in small teams and have to submit written plans and give presentations in front of a panel.

PETROENG 4024 Decision Making Under Uncertainty

2 units - semester 1

Intensive short course of integrated lectures & computer based worked examples

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

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. The many uncertainties inherent to the oil and gas business (estimating current 'states-of-the-world/nature' and predicting future events) create considerable uncertainty in the value that can be realised from 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 the decision-making process, multi-objective decision making, decision-tree analysis, decision criteria, Monte Carlo simulation, attitudes to risk and some of the psychological and judgemental aspects of how people respond to uncertainty. The techniques learned in this course will also be useful in making personal decisions.

PETROENG 4027 Advanced Managerial Decision Making and Risk Analysis

3 units - semester 1

Intensive short course of integrated lectures and computer based examples

Restriction: students in specified programs only. Students should check academic rules of the program in which you are enrolling

Available for Non-Award Study

Incompatible: Cannot be taken in combination with PETROENG 4024

Assessment: Assignments, group discussions and exam

This course is an extension to PETROENG 4024. In addition to the material covered in Decision Making under Uncertainty, this course introduces the application of economics and decision analysis to valuing managerial flexibility using real options analysis, and to portfolio management decisions

PETROENG 4028 Project Management

2 units - semester 2

Lectures and tutorials

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

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 4030 Petroleum Project Economics

2 units - semester 2

Lectures, tutorials and computerised worked examples

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Available for Non-Award Study

Assessment: assignments, exam

Economic evaluations provide the main source of information by which investment and operational decisions are made regarding the most effective use of enterprise resources. There are many subtleties and assumptions that underlie the apparently straightforward calculations that are often seen. Consequently, a fundamental understanding of the concepts behind economic evaluation and of techniques for performing them, are essential skills. Topics to be included are: economic and business concepts, cash-flows and fiscal regimes, time-value of money, discounted cash flow, net present value and other economic indicators, sensitivity analysis, real options and portfolio management, analysis of various project situations.

HONOURS

ELEC ENG 4039A/B **Honours Project**

6 units - full year

240 hours practical work

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Prerequisite: ELEC ENG 3015, ELEC ENG 3016, ELEC ENG 3017, ELEC ENG 3018, ELEC ENG 3019A/B, ELEC ENG 3020

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.

MECH ENG 4007A/B **Mechanical Honours Project Level IV**

8 units - full year

360 hours project work

Restriction: 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 school research, with emphasis on project management and effective communication.

MECH ENG 4019A/B **Mechatronics Honours Project Level IV**

8 units - full year

360 hours individual project work

Restriction: mechatronics engineering students selected for honours

Assessment: preliminary report, exhibition, seminar for presentation of results & report

The aim of the project is to provide solutions to engineering problems related to industry or to school research, with emphasis on project management and effective communication.

PETROENG 4020A/B **Petroleum Engineering Design Project**

6 units - full year

320 hours minimum: project work & discussions, project work presentation

Restriction: 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 eight weeks on their projects.

MECH ENG 4035A/B **Aerospace Honours Project Level IV**

8 units - full year

360 hours project work

Restriction: aerospace 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 school research, with emphasis on project management and effective communication.

MECH ENG 4047A/B **Automotive Honours Project Level IV**

8 units - full year

360 hours project work

Restriction: automotive engineering honours students only

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 school research, with emphasis on project management and effective communication.

English

LEVEL I

ENGL 1101 **Introduction to English: Ideas of the Real**

3 units - semester 1

3 contact hours per week

Available for Non-Award Study

Assessment: participation, essays, exam

This course will introduce students to a number of texts from the nineteenth and twentieth centuries that deal with issues of reality and its representation. These texts will include a variety of genres including fiction, short fiction and poetry. Students will be introduced to the terms Realism, Romanticism, Modernism and Postmodernism and their relevance to literary texts. 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

3 contact hours per week

Available for Non-Award Study

Assessment: participation, assignment, essay, exam

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 - semester 1 or 2

Lecture online, 2 hour workshop per week, provision for individual consultations

Quota may apply

Incompatible: Not available to students who have completed SACE Stage 2 HESS English Restricted or General (or equiv), ENGL 2016, ENGL 2104, ENGL 3016

Assessment: participation, written assignments, in-class writing exercises, 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; job application packages; informative summaries and analysis; academic writing skills; grammar, tone and fluency.

ENGL 1105 **Film Studies**

3 units - semester 2

3 contact hours per week

Available for Non-Award Study

Assessment: essay, participation, exam

Film Studies provides an introduction to the analysis of narrative films. The course explores a range of aspects of film, including origins, techniques, industry, genre, narrative, and audience. The course examines examples from various film industries, including Australia, America (Hollywood) and other international cinemas.

ENGL 1106 **Landmarks in English Literature: Chaucer to Austen**

3 units - semester 1

3 contact hours 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 2009 **A Festival of Contemporary Writing**

4 units - semester 1

3 contact hours per week (or equiv)

Prerequisite: 6 units Level I Humanities/Social Sciences

Incompatible: ENGL 3009

Assessment: 1000 word report on Writers' Week 20%, seminar exercises 30%, essay/creative writing piece 50%

This course is designed as an extension of Writers' Week, which, as part of the Adelaide Festival of Arts, brings major writers to Adelaide from all over Australia and elsewhere in the world to read from and discuss their work and to discuss ideas with other writers in a public forum. The course will extend and develop themes and ideas presented in the Writers' Week program. Recent Australian writing will be discussed in relation to recent writing from elsewhere in the world. Students will be introduced to creative writing techniques and will be encouraged to respond to topics through creative writing. Please note: attendance at a selection of Writers' Week sessions is compulsory.

ENGL 2015 **Dangerous Liaisons: Writing Out of Africa**

4 units - semester 2

3 contact hours per week

Prerequisite: 6 units Level I Humanities/Social Sciences

Incompatible: ENGL 3015

Assessment: seminar participation, seminar paper, essay

This course will examine a range of African and diasporic African texts that focus on dispossession and dispersal in the aftermath of the colonial period. Topics will include the construction of race, gender and identity in the contexts of homelessness at home, slavery, migration and exile. Texts will include contemporary writing from Botswana, Ghana, Nigeria, Tanzania, UK, USA, West Indies and Zimbabwe.

ENGL 2016 **English for Professional Purposes**

4 units - semester 1

Lectures online, 2 hour workshop per week

Prerequisite: 6 units Level I in any discipline

Incompatible: ENGL 1104, ENGL 2104, ENGL 3016

Assessment: participation, class exercises, written 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 2021 **Women's Writing: The Nineteenth Century**

4 units - semester 1

3 contact hours per week

Prerequisite: 6 units Level I Humanities/Social Sciences

Incompatible: ENGL 3021

Assessment: essays, tutorial participation

Women's Writing provides an introduction to the nineteenth century through the eyes of the women writers who served to forge the novel in this period and establish a female literary tradition. Students will have an opportunity to study the historical and social contexts in which nineteenth century women wrote and to consider the relationship of female experience to the process of writing. Women's Writing represents a difference of view: the analysis of texts will include a consideration of the way social values are encoded in literary texts and were contested by these writers, with special reference to notions of sexuality, gender roles, and selfhood. The course aims to develop students' analytic and critical skills. Oral presentations together with written work will enhance their capacities to argue from evidence, to communicate ideas effectively, and to think creatively.

ENGL 2026 **Self Writing**

4 units - semester 2

3 contact hours per week

Prerequisite: 6 units level I Humanities/Social Sciences

Incompatible: ENGL 3026

Assessment: participation, seminar presentation, critical essay, take-home exam

In this course students will read a range of life narratives in the context of theories of self-representation. The course will focus on variations in the genre of self-writing, and will examine the evolution of autobiographical texts - and the changing significance attributed to the speaking "I" - from St Augustine's Confessions of the 4th century to contemporary models of self-writing. Set texts will include not only those conventionally understood as autobiography but also those which deliberately blur the line between biography and autobiography (such as Gertrude Stein's *Autobiography of Alice B. Toklas*) and those which are collaboratively produced (such as oral histories). The course will allow students to produce a piece of self-writing or an oral history project as part of their assessment. They will develop their skills in reading texts within the context of cultural and literary history, and have the opportunity to explore intersections between critical and creative writing.

ENGL 2029 **Reading and Writing Poetry**

4 units - semester 2

2 lectures, 1 tutorial per week

Incompatible: ENGL 3029

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 certainly 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

Restriction: 6 units level I Humanities/Social Sciences

Incompatible: ENGL 3031

Assessment: essay, exam, seminar presentation/paper, participation (may include online writing forum participations 8/or in-class research skills diagnostic)

This course will cover the Hollywood film industry's history, with reference to key developments in film form and key genres. 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.

ENGL 2032 **Australian Classics: Literature & Film**

4 units - semester 1

3 contact hours per week

Prerequisite: 6 units Level I Humanities/Social Sciences

Incompatible: ENGL 3032

Assessment: seminar paper, participation, exam

This course examines a range of Australian literary and filmic texts that have come to be regarded as 'classics'. The course aims to set texts in their historical context, exploring the social functions they might have served for their original audiences. In addition, it analyses the construction of literary and filmic canons, and asks why these texts attained a status as Australian 'classics'. There will be an emphasis on how literature and film deals with

conflicts and tensions within Australian culture - both for its original and subsequent audiences.

ENGL 2034 **Representing Truth and Reconciliation**

4 units - summer semester

3 contact hours per week

Prerequisite: 6 units Level I Humanities/Social Sciences

Incompatible: ENGL 3034

Assessment: Assignments, seminar paper, research essay

The aims of this course are to familiarise students with key issues in post-apartheid South African literature, to introduce students new to literary studies to some major procedures of literary criticism, and to expand on the critical skills of those students experienced in literary analysis. In order to develop an understanding of the contemporary literary climate, we will read four of the most important and widely acclaimed post-apartheid South African literary texts in the context of the Truth and Reconciliation Commission (TRC). For the informing political context, we turn to official reportage, documentary video material and recordings of the TRC process, but also examine the contribution literature makes to the key debates relating to the TRC. A major focus will thus be the aesthetics and ethics of autobiographical, journalistic and fictional approaches to social inequality and social transformation. Central to the course will be the following question: 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?

ENGL 2040 **The Art of Crime: Fictions of Transgression**

4 units - semester 2

3 contact hours per week

Prerequisite: 6 units at level I from any Faculty

Assumed Knowledge: English studies at level I

Incompatible: ENGL 3040

Assessment: 2500 word essay 40%, 3 hour exam 50%, participation 10%

This course is concerned with the literary representations of crime (and sometimes punishment) in relation to social and moral transgression. It will examine some narratives from the mid-nineteenth century to the present, with a focus on the relationship of crime to historically shifting practices in narrative technique such as plotting, voice, irony and the construction of a reader position. The course will be thematically structured around a series of topics to include: (i) behind closed doors: domesticity, marriage, and Gothic crime; (ii) family secrets: crimes of kinship and inheritance; (iii) femmes fatales: some murderous women of fiction; (iv) enemies of the state: spies, terrorists and subversives; (v) open secrets: surveillance, confession, and betrayal and; (vi) true crime: fiction, history and reportage.

Texts to be studied will include M.E. Braddon, *Lady Audley's Secret*; Wilkie Collins, *The Moonstone*; Angela Carter, *The Fall River Axe Murders & Lizzie's Tiger*; Joseph Conrad, *Under Western Eyes*; Jonathan Raban, *Surveillance*; Helen Garner, *Joe Cinque's Consolation*.

ENGL 2104 **Professional English (ESL)**

4 units - semester 1 or 2

Lectures online, 2 hour workshop per week, provision for individual consultations

Quota may apply

Prerequisite: 6 units Level I in any discipline

Incompatible: not available to students who have completed SACE Stage 2 HESS English Restricted (or equiv), ENGL 1104, ENGL 2016, ENGL 3016, may not be counted for major in English.

Assessment: participation, written assignments, in-class writing exercises, 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; job application packages; informative summaries and analysis; academic writing skills; grammar, tone and fluency.

LEVEL III

ENGL 3009 **A Festival of Contemporary Writing**

6 units - semester 1

3 contact hours per week (equivalent)

Prerequisite: 8 units Level II Humanities/Social Sciences

Incompatible: ENGL 2009

Assessment: 1500 word report on Writers' Week 20%, seminar exercises 30%, essay/creative writing piece 50%

This course is designed as an extension of Writers' Week, which, as part of the Adelaide Festival of Arts, brings major writers to Adelaide from all over Australia and elsewhere in the world to read from and discuss their work and to discuss ideas with other writers in a public forum. The course will extend and develop themes and ideas presented in the Writers' Week program. Recent Australian writing will be discussed in relation to recent writing from elsewhere in the world. Students will be introduced to creative writing techniques and will be encouraged to respond to topics through creative writing. Please note: attendance at a selection of Writers' Week sessions is compulsory.

ENGL 3015 **Dangerous Liaisons: Writing Out of Africa**

6 units - semester 2

3 contact hours per week

Prerequisite: 8 units Level II Humanities/Social Sciences

Incompatible: ENGL 2015

Assessment: seminar participation, seminar paper, essay

This course will examine a range of African and diasporic African texts that focus on dispossession and dispersal in the aftermath of the colonial period. Topics will include the construction of race, gender and identity in the contexts of homelessness at home, slavery, migration and exile. Texts will include contemporary writing from Botswana, Ghana, Nigeria, Tanzania, UK, USA, West Indies and Zimbabwe.

ENGL 3016 **English for Professional Purposes**

6 units - semester 1

Lectures online, 2 hour workshop per week

Prerequisite: 8 units Level II in any discipline

Incompatible: ENGL 1104, ENGL 2016, ENGL 2104

Assessment: participation, class exercises, written 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 3021 **Women's Writing: The Nineteenth Century**

6 units - semester 1

3 contact hours per week

Prerequisite: 8 units Level II Humanities/Social Sciences

Incompatible: ENGL 2021

Assessment: essays, tutorial participation

Women's Writing provides an introduction to the nineteenth century through the eyes of the women writers who served to forge the novel in this period and establish a female literary tradition. Students will have an opportunity to study the historical and social contexts in which nineteenth century women wrote and to consider the relationship of female experience to the process of writing. Women's Writing represents a difference of view: the analysis of texts will include a consideration of the way social values are encoded in literary texts and were contested by these writers, with special reference to notions of sexuality, gender roles, and selfhood. The course aims to develop students' analytic and critical skills. Oral presentations together with written work will enhance their capacities to argue from evidence, to communicate ideas effectively, and to think creatively.

ENGL 3026 **Self Writing**

6 units - semester 2

3 contact hours per week

Prerequisite: 8 units level II Humanities/Social Sciences

Incompatible: ENGL 2026

Assessment: participation, seminar presentation & paper, critical essay, take-home exam

In this course students will read a range of life narratives in the context of theories of self-representation. The course will focus on variations in the genre of self-writing, and will examine the evolution of autobiographical texts - and the changing significance attributed to the speaking "I" - from St Augustine's Confessions of the 4th century to contemporary models of self-writing. Set texts will include not only those conventionally understood as autobiography but also those which deliberately blur the line between biography and autobiography (such as Gertrude Stein's *Autobiography of Alice B. Toklas*) and those which are collaboratively produced (such as oral histories). The course will allow students to produce a piece of self-writing or an oral history project as part of their assessment. They will develop their skills in reading texts within the context of cultural and literary history, and have the opportunity to explore intersections between critical and creative writing.

ENGL 3029 **Reading and Writing Poetry**

6 units - semester 2

2 lectures, 1 tutorial per week

Prerequisite: 8 units Level II Humanities/Social Sciences

Incompatible: ENGL 2029

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

Incompatible: ENGL 2031

Assessment: essay, exam, seminar presentation/paper, participation (may include online writing forum &/or in-class research skills diagnostic)

This course will cover the Hollywood film industry's history, with reference to key developments in film form and key genres. 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.

ENGL 3032

Australian Classics: Literature & Film

6 units - semester 1

3 contact hours per week

Prerequisite: 8 units Level II Humanities/Social Sciences

Incompatible: ENGL 2032

Assessment: seminar paper, assignments, participation, exam

This course examines a range of Australian literary and filmic texts that have come to be regarded as 'classics'. The course aims to set texts in their historical context, exploring the social functions they might have served for their original audiences. In addition, it analyses the construction of literary and filmic canons, and asks why these texts attained a status as Australian 'classics'. There will be an emphasis on how literature and film deals with conflicts and tensions within Australian culture - both for its original, and for subsequent, audiences.

ENGL 3034

Representing Truth and Reconciliation

6 units - summer semester

3 contact hours per week

Prerequisite: 8 units Level II Humanities/Social Sciences

Incompatible: ENGL 2034

Assessment: assignments, seminar paper, research essay

The aims of this course are to familiarise students with key issues in post-apartheid South African literature, to introduce students new to literary studies to some major procedures of literary criticism, and to expand on the critical skills of those students experienced in literary analysis. In order to develop an understanding of the contemporary literary climate, we will read four of the most important and widely acclaimed post-apartheid South African literary texts in the context of the Truth and Reconciliation Commission (TRC). For the informing political context, we turn to official reportage, documentary video material and recordings of the TRC process, but also examine the contribution literature makes to the key debates relating to the TRC. A major focus will thus be the aesthetics and ethics of autobiographical, journalistic and fictional approaches to social inequality and social transformation. Central to the course will be the following question: 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?

ENGL 3040

The Art of Crime: Fictions of Transgression

6 units - semester 2

3 contact hours per week

Prerequisite: 8 units at level II from any Faculty

Assumed Knowledge: English Studies at level I

Incompatible: ENGL 2040

Assessment: seminar paper 15%, essay 35%, exam 50%

This course is concerned with the literary representations of crime (and sometimes punishment) in relation to social and moral transgression. It will examine some narratives from the mid-nineteenth century to the present, with a focus on the relationship of crime to historically shifting practices in narrative technique such as plotting, voice, irony and the construction of a reader position. The course will be thematically structured around a series of topics to include: (i) behind closed doors: domesticity, marriage, and Gothic crime; (ii) family secrets: crimes of kinship and inheritance; (iii) femmes fatales: some murderous women of fiction; (iv) enemies of the state: spies, terrorists and subversives; (v) open secrets: surveillance, confession, and betrayal; (vi) true crime: fiction, history and reportage.

Texts to be studied will include M.E. Braddon, *Lady Audley's Secret*; Wilkie Collins, *The Moonstone*; Angela Carter, *The Fall River Axe Murders & Lizzie's Tiger*; Joseph Conrad, *Under Western Eyes*; Jonathan Raban, *Surveillance*; Helen Garner, *Joe Cinque's Consolation*.

HONOURS

ENGL 4401A/B

Honours English

24 units - full year

Prerequisite: UG degree, high credit average in courses contributing to major in English or equiv approved by English Honours Sub-Committee

Assessment: coursework (3 courses), 15000 word thesis

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.

The work for the Honours year consists of three courses and the writing of a thesis. A list of courses for 2008 will be available from the English Office late in 2007 and students should consult the English Honours Handbook on the Discipline's website.

In some circumstances Honours English can be studied part-time over two years or can be combined with Honours in another discipline.

ENGL 4402A/B Honours Creative Writing

24 units - full year

Prerequisite: UG degree, high credit average in courses contributing to major in English or equiv approved by Creative Writing Honours Sub-Committee; presentation of suitable portfolio of creative writing - see Creative Writing Coordinator for details

Assessment: coursework (3 courses), major (12000 word) piece of creative writing, 3000 word exegetical essay

Students wishing to take Honours Creative Writing should consult the Honours Coordinator prior to commencing level II to ensure that appropriate course choices are made in preparation for Honours.

The Honours year in creative writing allows students to extend skills in creative writing demonstrated in the portfolio which is a prerequisite for the course. The portfolio may include creative writing developed and presented in undergraduate studies in English. The work for the year consists of three courses: one a creative writing workshop and the others courses that focus on the reading and analysis of literary texts in which you prepare for your exegetical essay, which explores the cross-flow between critical and creative writing and reading. In the second semester students complete a major piece of creative writing and accompanying exegetical essay. Students should consult the 2007 Creative Writing Honours Handbook for further information although some details have changed - see the Discipline's website for further information.

In some circumstances Honours Creative Writing can be studied part-time over two years.

Environmental Biology

LEVEL II

ENV BIOL 2000 Zoology EB II

4 units - semester 2

3 lectures per week, 1 practical per week

Assumed Knowledge: 6 units of approved Level I Biology courses or permission of Head of Discipline

Assessment: practical work, essay, exam

The course begins with the relationship between structure and function. Concepts of phylogeny will be introduced and the enormous diversity of animals will be examined in a phylogenetic framework. The major events in animal evolution as demonstrated by adaptations to parasitism, the marine environment and life on land will be provided. The section on invertebrate diversity will be concluded with a state-of-the-art lecture on the extraordinary discoveries that are currently being made of new species and even new groups and how scientists determine where they fit in the tree of life. The biology of the vertebrates will follow groups from fishes to terrestrial vertebrates, including the amphibians, reptiles, birds and mammals. We will flavour these with interesting lectures

on animal adaptations and some of the major evolutionary hurdles in vertebrate evolution. Topics in animal physiology relevant to both vertebrates and invertebrates will include the flow of energy through organisms, the process of respiration and the function of the nervous and sensory systems as well as muscle function.

ENV BIOL 2001 Evolutionary Biology EB II

4 units - semester 1

3 lectures, 1 practical per week

Assumed Knowledge: 6 units of approved Level I Biology courses or permission of Head of Discipline

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 2001RW Evolutionary Biology EB II

4 units - semester 1

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: 6 units of Level I Biology courses

Incompatible: ENV BIOL 2901A/B, ENV BIOL 2005

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 populations and 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 Ecology E

3 units - semester 2

3 lectures per week, 2 tutorials per semester, 3-4 day field camp (first week of mid-semester break)

Restriction: Engineering students only, or special permission of Course Coordinator

Incompatible: ENV BIOL 2901A/B, ENV BIOL 2005, ENV BIOL 2003

Assessment: assignments &/or exam - details available at beginning of semester

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 populations and 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 2006 Botany II

4 units - semester 1

3 Lectures, 4 hour practical per week

Assumed Knowledge: BIOLOGY 1101/1102

Incompatible: PLANT SC 2001WT, Botany EBII, Biology of Plants & Animals

The course gives a general introduction to the biology of plants. The first half of the lectures and practicals cover physiology and basic biochemistry, plant nutrition and responses to environmental stress. The lectures in the second half explore plant structure, classification, plant diversity and evolutionary influences. The related practicals cover plant anatomy and plant identification. The course provides a valuable background for further plant-related courses.

LEVEL III

ENV BIOL 3002 Australian Biota: Past, Present and Future

3 units - semester 2

2 lectures, 4 hours practical/project work/tutorial work per week

Assumed Knowledge: ENV BIOL 2001

Incompatible: Biodiversity and Evolution of Plants III

Assessment: exams, tutorials, practical assignments, field excursion

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 vertebrate fauna; Australian marine organism, 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 and marine environments, and the evolution of vertebrate reproductive strategies.

ENV BIOL 3003 Ecophysiology of Animals III

3 units - semester 2

2 lectures, 1 tutorial, 4 hours practical work a week

Assumed Knowledge: 8 units of Level II Environmental Biology courses, SACE Stage 2 Chemistry &/or Physics

Assessment: quizzes, practical work & 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, 4 hours practical work per week

Assumed Knowledge: 8 units of Level II Environmental Biology courses (Science students), ENV BIOL 2005, or approval of Head for BE students

Incompatible: Aquatic Plant Biology, Freshwater Ecology

Assessment: 2 assignments 25% each, a written test 50%

The course provides theoretical understanding and practical implications of the ecology and restoration of freshwater habitats. It distinguishes habitats of lakes, wetlands, streams and rivers by varying circulation types, nutrient cycles and food webs. Complementary practicals will be conducted in order to provide skills for the identification of algae, zooplankton and water plants as well as for monitoring, assessment and management of drinking water reservoirs, urban and floodplain wetlands, and rivers.

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, STATS 1000 or STATS 1003 or equiv

Incompatible: 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 emphasised, 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 3008 Conservation and Restoration

3 units - semester 2

2 lectures, 3 hours practical work per week, 4-5 days fieldwork (during semester or mid semester break)

Assumed Knowledge: ENV BIOL 2003 or equiv

Incompatible: ENV BIOL 3023, ENV BIOL 3008

Assessment: exams, practical & project assignments

This course will examine theoretical and practical aspects of conservation biology, 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). Edge effects, corridors, succession, endangered species management, conservation genetics, abundant species management, biological and mechanical control of unwanted species, rehabilitation, re-introduction and translocation biology will also be covered. Establishing adequate and effective monitoring programs, reserve design and risk assessment, as well as 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 conservation 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 BIOL2006 or PLANT SC 2001WT

Incompatible: Ecophysiology of Plants, Terrestrial Plant Ecophysiology Ecophysiology of Terrestrial Plants

Assessment: exam & 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 parasitic plants. 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 Level II Environmental Biology courses (or equiv), ENV BIOL 3006

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 3011 **Evolution and Diversity of Insects**

3 units - semester 1

2 lectures, 4 hours practical work per week, 1 day field trip

Assumed Knowledge: ENV BIOL 2000 or equiv

Incompatible: ENV BIOL 3011WT

Assessment: exams, tutorials, practical assignments, field excursion

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 - Not offered in 2008

24 hours lectures, 48 hours practical work in field & laboratory

Assumed Knowledge: ENV BIOL 2003 or SOIL&WAT 2005WT or AGRONOMY 2000ARW/BRW

Assessment: theory, practicals/assignments

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 characterised 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 3121 **Concepts in Ecology EBIII**

3 units - semester 1

2 lectures, 3 hours practical per week, 4 day field trip

Corequisite: ENV BIOL 3006

Assumed Knowledge: ENV BIOL 2003 or equiv

Assessment: exams, practical assignments

This course aims to provide advanced insights into the fundamental ecological principles that underpin the understanding of the ecology of specific systems, and the application of ecology to the management of natural resources and conservation of biodiversity.

ENV BIOL 3122 **Evolution and Palaeobiology III**

3 units - semester 1

2 lectures, 3 hours practical per week, 1 day field trip

Assumed Knowledge: ENV BIOL 2001 or equiv

Assessment: exams, tutorials, practical assignments, field excursion

This course aims to provide advanced understanding of fundamental principles and modern advances in techniques for systematics, evolution and the fossil record, and the application of these to the study of the evolution and conservation of biodiversity. Topics discussed will include: Evolution, phylogeny and evidence; Human evolution; ancient DNA; Evolution of Life History data, adaptations and co-evolution; marine biogeography, palaeoceanographic transformation and environmental forcing of evolution; stratigraphy, extinction and the origin and diversification of major animal groups; 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 3123 **Issues in Evolutionary Biology**

3 units - semester 2

4 - 6 hours project work/seminars per week

Restriction: BSc (Evolutionary Biology) students only

Assessment: essays, project assignments

This course comprises advanced level project work and a series of seminars by invited speakers that covers the latest issues as they relate to the two majors in the degree: paleontology/systematics and molecular evolution

ENV BIOL 3124 **Frontiers in Marine Biology**

3 units - Not offered in 2008

1 x 2hr lecture; 1 x 2hr tutorial

Restriction: BSc (Marine Biology) students only

Assumed Knowledge: Level I/II BSc (Marine Biology) or equiv

Assessment: tutorials, assignments

This course is about contemporary frontiers in marine biology, which will be presented by researchers that are actively pushing these boundaries. Each researcher will provide several research examples relating to their particular frontier (lectures and reading material) that will form the basis of lively discussion (tutorials). The exact identity of frontiers change as new issues and government priorities arise, hence topics will change frequently but are likely to include the science and politics of marine protected areas, novel approaches to fisheries biology and management, use of marine parasitologists in improving multi-million dollar aquaculture and fisheries ventures, new possibilities in use of molecular techniques, and the emerging crisis of coastal water pollution locally (South Australia) and globally.

ENV BIOL 3220 **Issues in Sustainable Environments**

3 units - semester 2

2 hour seminar/discussion, 3-4 hours of project/tutorial per week

Restriction: BSc (Sustainable Environments) & BSc (Natural Resources) students only

Assumed Knowledge: Level I & II BSc (Sust.Env.) or equiv

This course comprises a series of seminars by invited speakers that covers the latest issues as they relate to the three majors in the BSc (Sustainable Environments) program: Conservation and Wildlife Ecology, Land and Water Management and Deep Earth Resources

ENV BIOL 3221 **Research Methods in Marine Biology**

3 units - Not offered in 2008

2 hour lecture, 2 hour tutorial, 4 hour laboratory

Restriction: BSc (Marine Biology) students only

Assumed Knowledge: Level I /II BSc (Marine Biology) or equiv

Assessment: Research reports and a poster

This course demonstrates fundamental approaches and specialist techniques required of contemporary investigations in marine biology and ecology. It promotes an awareness of modern research programs of governmental and non-governmental agencies and demonstrates key analytical techniques, many of which are not taught at Australian universities at any undergraduate or postgraduate level. The course combines current thinking (theory) and practical measurement (practice) used to understand natural influences and human domination of top-down processes (e.g. Marine Protected Areas and fishing) and bottom-up processes (e.g. waste water treatment, catchment management) that maintain and disrupt ecosystem function and sustainability. Particular emphasis is placed on temperate coasts for which the Australian population is largest and most dense, coastal-ocean problems most expensive and intense, and career opportunities most diverse and numerous.

HONOURS

ENV BIOL 4000A/B **Honours Environmental Biology**

24 units - full year

Prerequisite: credit standard in 9 units of Level III courses offered by Environmental Biology or related disciplines, agreement from supervisor appropriate for research project

Assessment: research thesis, seminar, literature review, research proposal, 2 essays

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 4001A/B **Honours B.Environmental Science** **(Environmental Biology)**

12 units - full year

Prerequisite: credit or higher in at least 2 Level III Environmental Biology or related courses approved by Head of Discipline, agreement from supervisor appropriate for research project

Assessment: project, average of coursework result

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 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 4002A/B **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.

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 4010A/B **Honours Environmental Biology (B.Nat Res.)**

24 units - full year

Prerequisite: credit standard in 9 units of Level III Environmental Biology or related disciplines, agreement from a supervisor appropriate for research project

Assessment: research thesis and seminar, literature review and research proposal, 2 essays

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.

European Studies

LEVEL I

EUST 1000 **Modern Imagination in Europe**

3 units - semester 2

3 contact hours per week

Available for Non-Award Study

Assessment: 1200 word essay 30%, journal 10%, participation based on class contribution 10%, class presentation 15%, 2 hour exam 35%

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, and New Wave cinema. We will be reading classic works such as Camus's *The Outsider*, Sartre's *Nausea*, Flaubert's *Madame Bovary* and Kafka's *The Trial*. 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 2013 **European Film Movements**

4 units - semester 2

5.5 contact hours per week (includes 2.5 hour screening)

Prerequisite: 6 units Level I Humanities/Social Sciences

Incompatible: EUST 3013

Assessment: 1500 word screening diary 25%, 1000 word tutorial paper 25%, 2500 word essay 50%

This course gives an overview of the principal periods and movements in European Cinema from its early years to the 1960s. Topics to be studied include: Russian Formalism, German Expressionism, French Poetic Realism, Italian Neo-Realism, British Cinema of the 1950s

and French Nouvelle Vague. These will be studied through background readings as well as by film analysis that focuses upon a significant film from each period. The theoretical framework for the course is provided by the concept of National Cinema.

EUST 2014 **Ancient Philosophy: Wise Men, Critics & Cranks**

4 units - semester 2

3 contact hours per week

Prerequisite: 6 units Level I Humanities/Social Sciences

Incompatible: EUST 3014

Assessment: 2 x 1500 word essays 40%, seminar summaries 10%, short seminar presentation & 500 word outline 10%, 2 hour exam 40%

The aim of the course is to introduce the main ideas of Greek and Roman philosophers, place them in their historical context and study their impact upon the development of philosophy and Western thought. The main topics considered in chronological order are: natural philosophers (Pre-Socratics); urban elites in fifth-century Athens (Sophists and Socrates); great ideas of the classical period: Plato and Aristotle; philosophies of the Hellenistic and Roman periods: Cynics, Stoics and Epicureans; satirical and Christian critiques of Greek philosophers (Lucian, Justin Martyr and Tertullian); and the new Platonism of Plotinus (205-275 AD).

EUST 2015 **Music and Politics: German Song and Society**

4 units - semester 1

3 contact hours per week

Prerequisite: 6 units Level I Music/Humanities/Social Sciences

Incompatible: EUST 3015; any German Studies II/III course where student has chosen modified/reduced version of Music & Politics as part

Assessment: 1000 word seminar paper 20%, 1500 word essay 30%, 2500 word major essay 50%

In this course we examine some of the complex interrelationships between music and politics by considering aspects of German song in the context of historical and social developments in the 19th and 20th centuries. The course begins by exploring the importance of folk song, its interpretation as an expression of national character and its contribution to nationalist and other political movements. Folk song also formed the basis for German art song and under this heading the course considers major composers and their Lieder as well as the influence of such factors as men's singing groups (Liedertafeln), salons and other forms of domestic music-making, the introduction of the piano and the effects of gender expectations on both composition and performance.

The second half of the course traces the evolution of German song in the 20th century. Topics include the role of songs in the Wandervogel movement, Weimar cabaret, the Brecht songs of Weill and Eisler and the use of songs in Nazi Germany.

LEVEL III

EUST 3013 European Film Movements

6 units - semester 2

5.5 contact hours per week (includes 2.5 hour screening)

Prerequisite: 8 units Level II Humanities/Social Sciences

Incompatible: EUST 2013

Assessment: 2500 word screening diary 25%, 1500 word tutorial paper 25%, 4000 word essay 50%

This course gives an overview of the principal periods and movements in European Cinema from its early years to the 1960s. Topics to be studied include: Russian Formalism, German Expressionism, French Poetic Realism, Italian Neo-Realism, British Cinema of the 1950s and French Nouvelle Vague. These will be studied through background readings as well as by film analysis that focuses upon a significant film from each period. The theoretical framework for the course is provided by the concept of National Cinema.

EUST 3014 Ancient Philosophy: Wise Men, Critics & Cranks

6 units - semester 2

3 contact hours per week

Prerequisite: 8 units Level II Humanities/Social Sciences

Incompatible: EUST 2014

Assessment: 2 x 2500 word essays 40%, seminar summaries 10%, short seminar presentation & 500 word outline 10%, 2 hour exam 40%

The aim of the course is to introduce some of the main ideas of Greek and Roman philosophers, place them in their historical context and study their impact upon the development of philosophy and Western thought. The main topics considered in chronological order are: natural philosophers (Pre-Socratics); urban elites in fifth-century Athens (Sophists and Socrates); great ideas of the classical period: Plato and Aristotle; philosophies of the Hellenistic and Roman periods: Cynics, Stoics and Epicureans; satirical and Christian critiques of Greek philosophers (Lucian, Justin Martyr and Tertullian); and the new Platonism of Plotinus (205-275 AD).

EUST 3015 Music and Politics: German Song and Society

6 units - semester 1

3 contact hours per week

Prerequisite: 8 units Level II Music/Humanities/Social Sciences

Incompatible: EUST 2015; any German Studies III/III course where student has chosen modified/reduced version of Music & Politics as part

Assessment: 1500 word seminar paper 20%, 2000 word essay 30%, 4000 word major essay 50%

In this course we examine some of the complex interrelationships between music and politics by considering aspects of German song in the context of historical and social developments in the 19th and 20th centuries. The course begins by exploring the importance of folk song, its interpretation as an expression of

national character and its contribution to nationalist and other political movements. Folk song also formed the basis for German art song and under this heading the course considers major composers and their Lieder as well as the influence of such factors as men's singing groups (Liedertafeln), salons and other forms of domestic music-making, the introduction of the piano and the effects of gender expectations on both composition and performance.

The second half of the course traces the evolution of German song in the 20th century. Topics include the role of songs in the Wandervogel movement, Weimar caberet, the Brecht songs of Weill and Eisler and the use of songs in Nazi Germany.

HONOURS

EUST 4401A/B Honours European Studies

24 units - full year

Prerequisite: major sequence in European Studies with Level III credit standard, at least 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 Science

LEVEL I

FOOD SC 1001 Consumers, Food and Health

3 units - semester 1

2 lectures, 2 hours tutorial per week

Assessment: assignments, student diary, student led discussion, participation, exam

Overview, social, cultural and economic influences, mass media models, consumers, consumer lifestyles, market segmentation, consumer perceptions of foods, consumers' food concerns, cuisines and population food consumption patterns, the food system, food policies and agencies, food shopping, food labels, biological and social psychological influences on food consumption, appetite mechanisms, satiety, taste aversions.

Healthy eating, food composition, dietary guidelines, food groups, functions of principal nutrients, vegetarianism, dietary supplementation, weight control practices, under nutrition, the nutrition transition, obesity and non-communicable disease.

FOOD SC 2001RG**Food Engineering Principles**

2 units - semester 1

Average 6 hours per week including lectures, tutorials, &/or practicals

Assumed Knowledge: CHEM ENG 1001, PHYSICS 1008

Assessment: to be advised

Hydronic systems, refrigeration systems, cold storage, psychrometrics, heat loads, heat sterilization systems, boilers and heat exchange systems, compressed air and vacuum systems, food process engineering principles, corrosion principles, material selection, food processing equipment, programmable controllers, Newtonian and non-Newtonian fluids, food rheology, process mass and energy balances, and safety associated with food engineering systems. Visits will be made to food processing and storage facilities to illustrate the application of food engineering principles.

FOOD SC 2002WT**Nutrition II**

4 units - semester 2

Average 7 hours per week including lectures, tutorials, &/or practicals

Assumed Knowledge: BIOCHEM 2106

Assessment: to be advised

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

FOOD SC 2003RG**Food Microbiology II**

4 units - semester 2

Average 7 hours per week including lectures, tutorials, &/or practicals

Assumed Knowledge: APP ECOL 2003WT, PLANT SC 2004WT

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.

FOOD SC 2105RG**Food Preservation and Packaging A**

4 units - semester 1

Average 7 hours per week including lectures, tutorials, &/or practicals

Restriction: B.Food Science & Technology students only

Assumed Knowledge: FOOD SC 1000RG

Incompatible: FOOD SC 3003RG

Assessment: written exam, laboratory reports, assignments/ presentations

Advanced food preservation and packaging: heat and cold preservation including chilling, freezing, freezing systems, retorting, pasteurisation, sterilisation 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.

FOOD SC 2205RG**Plant Food Processing A**

4 units - semester 2

Average 7 hours per week including lectures, tutorials, &/or practicals

Restriction: B.Food Science & Technology students only

Assumed Knowledge: FOOD SC 2105RG

Incompatible: FOOD SC 3026RG

Assessment: written exam, assignments

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.

FOOD SC 3011RG**Food Chemistry**

3 units - semester 1

Average 6 hours per week including lectures, tutorials, &/or practicals

Assumed Knowledge: BIOCHEM 2106WT

Assessment: to be advised

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.

FOOD SC 3014RG**Food Quality and Regulation**

3 units - semester 2

Average 6 hours per week including lectures, tutorials, &/or practicals

Assumed Knowledge: FOOD SC 2105RG

Assessment: to be advised

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 sanitisers, verification of sanitiser action, equipment design to minimise process failure and health risk. Product recall and national and international food legislation including role of FSANZ, Food Standards Code, legislation hierarchy and audit.

FOOD SC 3020AWT/BWT**Research Project B (Food Technology & Management)**

12 units - full year

Assessment: thesis, a supervisor mark, final presentation

A research project on a food related topic.

FOOD SC 3021RG**Food Product Development**

3 units - semester 1

Average 6 hours per week including lectures, tutorials, &/or practicals

Assumed Knowledge: FOOD SC 2105RG

Assessment: to be advised

Product Development: Scale of new product development in market place, concept generation, consumer testing, quality function deployment. Research and Development 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.

FOOD SC 3025RG**Animal Food Processing**

3 units - semester 2

Average 6 hours per week including lectures, tutorials, &/or practicals

Assessment: to be advised

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.

FOOD SC 3027WT**Sensory Evaluation of Foods**

3 units - semester 2

Average 6 hours per week including lectures, tutorials, &/or practicals

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.

HONOURS

FOOD SC 4000AWT/BWT**Honours Food Science & Technology**

24 units - full year

40 hours a week

Prerequisite: Credit or higher in 2 relevant Level III courses in B.Food Sc.Tech.

Assessment: thesis, seminars, research proposal; remainder as deemed appropriate to the student's program.

This course comprises a substantial research project of the student's choosing on a topic acceptable to the Discipline of Plant and Food Science, two seminars on that topic, and coursework, essays or other assignments deemed appropriate to the individual student's honours program.

French Studies

LEVEL I

FREN 1002

French IA: Beginners' French

3 units - semester 1

5 contact hours per week

Available for Non-Award Study

Incompatible: not available to students who have obtained more than 14/20 in SACE Stage 2 French (or equiv)

Assessment: regular assignments, tests, written 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 IB: Beginners' French

3 units - semester 2

5 contact hours per week

Available for Non-Award Study

Prerequisite: FREN 1002

Assessment: regular assignments, tests, written exam

This course continues the intensive language training undertaken in French IA. In the second half of the semester, the language laboratory class will be replaced by a class devoted to the development of reading skills.

FREN 1011

French ISA: Language and Culture

3 units - semester 1

5 contact hours 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 is designed for students who have studied French at high school to Year 12 level (or equivalent). It consolidates the language skills already acquired 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 interpretation of different kinds of texts and other cultural artefacts.

FREN 1012

French ISB: Language and Culture

3 units - semester 2

5 contact hours per week

Available for Non-Award Study

Prerequisite: FREN 1011 (or equiv)

Assessment: regular tests, language assignments, essays, language exam

This course continues the intensive language training undertaken in French ISA and introduces other aspects of French and Francophone culture and society. A lecture series will introduce students to the history of the French language and to the varieties of French spoken around the world today.

LEVEL II

FREN 2002

French IIA: Language and Culture

4 units - semester 1

5 contact hours per week

Prerequisite: FREN 1003

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 the first year beginners' course. In addition to the development of language skills, students will acquire knowledge of current issues in French society, as well as develop critical and analytic skills through the study of various texts and resources.

FREN 2003

French IIB: Language and Culture

4 units - semester 2

5 contact hours per week

Prerequisite: FREN 2002

Assessment: regular written assignments, oral exercises, written class tests, essays, oral exam, language exam

This course continues the intensive language training undertaken in French IIA and introduces other aspects of French and Francophone culture and society. A lecture series will introduce students to the history of the French language and to the varieties of French spoken around the world today.

FREN 2007

French Studies II

4 units - semester 1 or 2

Culture Topic - 2 contact hours per week or Language Topic - 5 contact hours per week

Prerequisite: Culture Topic - FREN 1012 or FREN 2003; Language Topic - sem 1, 6 units Level I Humanities/Social Sciences; sem 2 - French Studies II: Language Topic (Semester 1)

Incompatible: Language Topic - not available to students who have studied French at any level

Assessment: Culture Topic - tutorial papers, essays, tests; Language Topic - regular assignments, tests, exam 60%, 2000 word essay in English on French culture 40%

Culture

The Culture topic involves an individual research project (topic to be negotiated with the course coordinator) and a cultural studies course. In semester 1, the cultural studies course will be French Poetry, and in semester 2 students will study the Contemporary French Novel. Students can do either Semester 1 or 2, or both semesters.

Language

The Language topic offers the opportunity for students in second year to undertake an introductory French language and culture course, but 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 area of European Studies 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. Students intending to do Semester 2 of the language topic must first complete Semester 1.

FREN 2011 **French IISA: Language and Culture**

4 units - semester 1

5 contact hours per week

Prerequisite: FREN 1012

Assessment: regular oral & written exercises, class tests, end of semester exam for language; tutorial papers, essays, tests for cultural studies component

Language training in the speaking and writing of French builds on the skills and knowledge acquired in first year. The language program will include grammar exercises and written expression. The cultural studies component will be devoted to the study of French Poetry.

FREN 2012 **French IISB: Language and Culture**

4 units - semester 2

5 contact hours per week

Prerequisite: FREN 2011

Assessment: regular oral & written exercises, class tests, end of year 3 hour exam, oral interview for language; tutorial papers, essays, tests for cultural studies component

Language training in the speaking and writing of French builds on the skills and knowledge acquired in first semester. The language program will include grammar exercises and written expression. The cultural studies component will be devoted to the study of the Contemporary French Novel.

LEVEL III

FREN 3002 **French IIIA: Language and Culture**

6 units - semester 1

5 contact hours per week

Prerequisite: FREN 2003

Assessment: oral & written exercises, class tests, end of semester exam for language; tutorial papers, essays, tests for cultural studies component

Language training in the speaking and writing of French builds on the skills and knowledge acquired in second year (beginners' stream). The language program will include grammar exercises and written expression. The cultural studies component will be devoted to the study of French Poetry.

FREN 3003 **French IIIB: Language and Culture**

6 units - semester 2

5 contact hours per week

Prerequisite: FREN 3002

Assessment: oral & written exercises, class tests, end of year 3 hour exam, oral interview for language; tutorial papers, essays, tests for the cultural studies component

Language training in the speaking and writing of French builds on the skills and knowledge acquired in semester 1. The language programme will include grammar exercises and written expression. The cultural studies component will be devoted to the study of the Contemporary French Novel.

FREN 3007 **French Studies III**

6 units - semester 1 or 2

Culture Topic - 2 contact hours per week; or Language Topic - 5 contact hours per week

Prerequisite: Culture Topic - consult Course Coordinator; Language Topic - sem 1, 8 units Level II Humanities/Social Sciences, sem 2, French Studies III: Language Topic (Semester 1)

Incompatible: Language Topic not available to students who have studied French at any level

Assessment: Culture - tutorial papers, essays, tests; Language - regular assignments, tests, exam 60%, 3000 word essay in English on French culture 40%

Culture

The Culture topic involves an individual research project (topic to be negotiated with the Course Coordinator) and a cultural studies course. In semester 1 the cultural studies course will be the Nineteenth-Century French Novel, and in semester 2 students will study French Cinema of the 1930s. Students can do either Semester 1 or 2, or both semesters.

Language

The Language topic offers the opportunity for students in third year to undertake an introductory French language and culture course, but 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 area of European Studies 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. Students intending to do semester 2 of the language topic, must first complete Semester 1.

FREN 3011 **French IIISA: Language and Culture**

6 units - semester 1

4 contact hours per week

Prerequisite: FREN 2012

Assessment: oral & written exercises, class tests, end of semester exam for language; tutorial papers, essays, tests for cultural studies component

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 the study of the Nineteenth-Century French Novel.

FREN 3012 **French IIISB: Language and Culture**

6 units - semester 2

4 contact hours per week

Prerequisite: FREN 3011

Assessment: oral and written exercises, class tests, end of year 3 hour exam, oral interview for language; tutorial papers, essays, tests for the cultural studies component

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, translation and syntax, through regular assignments and class exercises (oral and written). The cultural studies strand involves the study of French Cinema of the 1930s.

FREN 3103WT **Technical French (Oenology)**

3 units - semester 2

5 contact hours per week

Restriction: B.Science (Oenology) students only

Assessment: written and oral assignments, class tests, oral and written exams

This is an intensive French course for beginners, which has been specifically designed for students of oenology. The language component of the course enables students to acquire basic skills in conversation and comprehension, and additional vocabulary lists will be supplied to assist students in acquiring elements of the language of wine culture in France. The reading component will focus on the language of wine production in France and Australia, looking at such topics as winegrowing areas, grape varieties and characteristics, soils and climates, and the

wine industry. Students are welcome to suggest areas of interest and documents they wish to study.

HONOURS

FREN 4401A/B **Honours French Studies**

24 units - 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 focusing on literary translations and advanced written and oral skills; Cultural Studies - two hours per week in each semester on a cultural topic (to be negotiated with the Honours coordinator); a 12,000 word thesis in French and an oral interview on the thesis topic. Students enrolling in French Honours from French III (beginners' stream) 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, Work and Social Inquiry

LEVEL I

GWSI 1001/1001EX **Social Sciences in Australia**

3 units - semester 1

Online; Internal - 3 contact hours per week

Available for Non-Award Study

Assessment: online tutorial participation, assignments

The social sciences are a group of disciplines which seek to understand the structure of society. Together they offer a range of approaches to investigating social problems and the dynamics of social change. This introductory course provides an overview of the ways that different social science disciplines contribute to an understanding of Australian society. The course utilises certain case studies of topical issues in contemporary Australia to introduce key concepts of: class/socioeconomic status, gender, ethnicity, family, work and location as structuring aspects of society.

GWSI 1002 **Image, Text and Representation**

3 units - semester 2

3 contact hours per week

Available for Non-Award Study

Assessment: lecture, tutorial participation & tutorial exercises, approx. 2000 word analysis of magazine/cover advertisement 40%, two in-class quizzes 5%, 2000 word news analysis assignment 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 with particular reference to gender and race; popular culture and globalisation; reading and decoding magazines and advertisements; 'us' and 'them' in the news; mythmaking, stereotypes and resistance; media concentration and ownership; and changing strategies in advertising and news production.

GWSI 1003/1003EX
Gender, Work and Society

3 units - semester 2

External - students work independently; Internal - 3 contact hours per week

Assessment: essays & participation in on-line discussion boards

Gender, Work and Society is designed to develop your knowledge and understanding of work and the ways in which the practices of work- paid and unpaid- is gendered. Women's and men's experiences are different, and have been since time immemorial. The two sexes do different jobs in the workplace and in the home, they work different hours in many places, their training, education, skills and rewards are often different. While there are many differences between men, and between women, sexed-based, systematic differences also exist. The course considers their origins and explanations. It examines links between broad societal changes and women's and men's changing roles, especially relating to the economy, education, technology, consumerism, individualism, the decline of trade unionism, reduction in welfare and the changing patterns of family life. Furthermore the course considers likely developments in employment regarding increasing flexibility, privatisation, contracting out and home work. During the semester the course will cover current issues in the Australian workforce that are receiving media attention such as the 'reform' of the Industrial Relations system, the 'work-life collision'.

GWSI 1004
Introduction to Gender Studies

3 units - semester 1

3 contact hours per week

Available for Non-Award Study

Assessment: workshop/tutorial participation, written work

Gender is encountered in every aspect of our lives. It informs public debate, legislation, how much money we earn, how much housework we do and our exposure to sexual violence. 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? The ways that ethnicity, 'race' and class modify and give meaning to gender debates will also be a central concern.

LEVEL II

GWSI 2003/2003EX
Gender & Race in Australian History

4 units - semester 1

External - students study independently; Internal - 3 contact hours per week

Prerequisite: 6 units Level I Humanities/Social Sciences

Incompatible: GEND 2001, GEND 3001, GWSI 3003

Assessment: 3000 word applied research essay, 1500 word seminar paper, seminar participation or on-line discussion 1000 word equiv

Gender and Race in Australian History begins by problematising 'women', 'men', 'race', 'Australia' and 'history'. It aims to introduce students to recent work in gender history and critical race and whiteness studies drawing largely on Australian material, but referring also to relevant international material. The content spans a wide variety of topics including work, religion, political and social struggles, ideology, shopping and dancing, sexuality, war, education and migration, and explores issues of class, 'race', whiteness, Indigeneity and ethnicity.

In this course you will learn about race and gender in Australian history in the period until c1945 and will gain knowledge about some of the major debates in the field. You will learn how to read historical writing and primary sources in a critical manner. You will become more adept at using various concepts to analyse historical materials. Your skills in research, critical reading and analytical writing will be developed. You will have the opportunity to carry out an Oral History project. You will become a more independent researcher. You will learn more about how to develop coherent arguments, both in written and oral work.

GWSI 2012
Fashion, Work and Identity

4 units - semester 1

2 hour lecture, 1 tutorial per week

Prerequisite: 6 units Level I Humanities/Social Sciences

Incompatible: GWSI 3012

Assessment: essays, other written work

Drawing upon labour, gender and cultural studies perspectives, this course employs an interdisciplinary approach to the study of the fashion industries. Students will develop a critical understanding of labour relations,

work processes and the impact of globalisation on the nature of the fashion industry through the study of issues such as: the decline of the Australian textile industries; work in the fashion/modelling industries; the use of outworkers and piece workers; the rise of maquiladoras in the third world; together with an examination of consumer, labour and community campaigns against sweatshops and specific manufacturers such as Nike's work practices. Students will develop critical analytical methods informed by cultural and gender studies and will examine the increasing emphasis on the expression of identity through consumption choices. They will also consider ways in which ideas about work and identity are circulated through particular fashion conventions and styles such as the business suit, uniforms, street wear and 'work clothes' (such as steel capped boots and work jackets). The commodification of sub-cultural styles and examples of particular marketing strategies by major fashion companies such as Benetton, Calvin Klein and Nike will also be examined.

GWSI 2015 Social Research

4 units - semester 2

3 contact hours per week

Prerequisite: 6 units Level I Humanities/Social Sciences

Incompatible: GWSI 3015

Assessment: essays, other written work

The aim of Social Research is to develop students' knowledge and understanding of research- how and why it is done- and to expose students to different theoretical perspectives and methodologies employed by researchers to conduct social research. Students will learn new skills including how to formulate a research question, how to design a study, how to obtain and interpret information and to present findings. Students will gain experience in conducting surveys, interviews and participant observation, focus groups, content analysis and discourse analysis. Students will be taught to consider the dilemmas, opportunities and possibilities associated with conducting social research.

GWSI 2016 Gender, Social Policy & Citizenship in Australia

4 units - semester 2

3 contact hours per week

Prerequisite: 6 units Level I Humanities/Social Sciences

Incompatible: GWSI 3016

Assessment: 2000 word essay 40%, 3000 word research project 50%

The course examines the nexus between gender, social policy and citizenship in Australia. It has a focus of the role and place of women and men in historical and contemporary constructions of Australian citizenship and how these constructions both impact upon and are shaped by social policy. A key focus for analysis will be the representation of gender issues (work, family, health, unemployment and leisure, and the law) within a social policy framework drawing attention to the ways different theoretical approaches give rise to gender issues and

how these issues are constructed in policy. The course also examines emerging gendered debates on the social, political and economic definitions and re-definitions of citizenship. Current debates in the broad areas of power relations, political and social rights and the future of welfare policy in an era of economic rationalism and globalisation are examined. A selection of case studies drawing on current research will be used to provide a framework for understanding the gendered, social policy and citizenship dimensions in Australian society. This course has an applied focus through which students develop policy analysis skills.

LEVEL III

GWSI 3003/3003EX Gender & Race in Australian History

6 units - semester 1

External - students work independently; Internal - 3 contact hours per week

Prerequisite: 8 units Level II Humanities/Social Sciences

Incompatible: GEND 2001, GEND 3001, GWSI 2003

Assessment: essays, other written work

Gender and Race in Australian History begins by problematising 'women', 'men', 'race', 'Australia' and 'history'. It aims to introduce students to recent work in gender history and critical race and whiteness studies drawing largely on Australian material, but referring also to relevant international material. The content spans a wide variety of topics including work, religion, political and social struggles, ideology, shopping and dancing, sexuality, war, education and migration, and explores issues of class, 'race', whiteness, Indigeneity and ethnicity.

In this course you will learn about race and gender in Australian history in the period until c1945 and will gain knowledge about some of the major debates in the field. You will learn how to read historical writing and primary sources in a critical manner. You will become more adept at using various concepts to analyse historical materials. Your skills in research, critical reading and analytical writing will be developed. You will have the opportunity to carry out an Oral History project. You will become a more independent researcher. You will learn more about how to develop coherent arguments, both in written and oral work.

GWSI 3012 Fashion, Work and Identity

6 units - semester 1

2 hour lecture, tutorial per week

Prerequisite: 8 units Level II Humanities/Social Science

Incompatible: GWSI 2012

Assessment: essays, other written work

Drawing upon labour, gender and cultural studies perspectives, this course employs an interdisciplinary approach to the study of the fashion industries. Students will develop a critical understanding of labour relations,

work processes and the impact of globalisation on the nature of the fashion industry through the study of issues such as: the decline of the Australian textile industries; work in the fashion/modelling industries; the use of outworkers and piece workers; the rise of maquiladoras in the third world; together with an examination of consumer, labour and community campaigns against sweatshops and specific manufacturers such as Nike's work practices. Students will develop critical analytical methods informed by cultural and gender studies and will examine the increasing emphasis on the expression of identity through consumption choices. They will also consider ways in which ideas about work and identity are circulated through particular fashion conventions and styles such as the business suit, uniforms, street wear and 'work clothes' (such as steel capped boots and work jackets). The commodification of sub-cultural styles and examples of particular marketing strategies by major fashion companies such as Benetton, Calvin Klein and Nike will also be examined.

GWSI 3015 Social Research

6 units - semester 2

3 contact hours per week

Prerequisite: 8 units Level II Humanities/Social Sciences

Incompatible: GWSI 2015

Assessment: essays, other written work

The aim of Social Research is to develop students' knowledge and understanding of research - how and why it is done - and to expose students to different theoretical perspectives and methodologies employed by researchers to conduct social research. Students will learn new skills including how to formulate a research question, how to design a study, how to obtain and interpret information and to present findings. Students will gain experience in conducting surveys, interviews and participant observation, focus groups, content analysis and discourse analysis. Students will be taught to consider the dilemmas, opportunities and possibilities associated with conducting social research.

GWSI 3016 Gender, Social Policy & Citizenship in Australia

6 units - semester 2

3 contact hours per week

Prerequisite: 8 units Level II Humanities/Social Sciences

Incompatible: GWSI 2016

Assessment: essays, research project

The course examines the nexus between gender, social policy and citizenship in Australia. It has a focus of the role and place of women and men in historical and contemporary constructions of Australian citizenship and how these constructions both impact upon and are shaped by social policy. A key focus for analysis will be the representation of gender issues (work, family, health, unemployment and leisure, and the law) within a social policy framework drawing attention to the ways different theoretical approaches give rise to gender issues and

how these issues are constructed in policy. The course also examines emerging gendered debates on the social, political and economic definitions and re-definitions of citizenship. Current debates in the broad areas of power relations, political and social rights and the future of welfare policy in an era of economic rationalism and globalisation are examined. A selection of case studies drawing on current research will be used to provide a framework for understanding the gendered, social policy and citizenship dimensions in Australian society. This course has an applied focus through which students develop policy analysis skills.

HONOURS

GWSI 4401A/B Honours Gender, Work and Social Inquiry

24 units - full year

Prerequisite: UG degree, minimum credit average in courses contributing to major in Gender, Work and Social Inquiry, or equiv approved by the Discipline

Assessment: 2 coursework topics with written work of approx. 6500-7500 words 25% each, 15000-18000 word thesis 50%

Students wishing to take Honours should consult the Honours Coordinator prior to commencing level III to ensure appropriate course choices are made in preparation for Honours.

The Honours program consists of two seminar courses and an Honours thesis. A list of Honours seminar courses 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 Heads of Discipline on advice from their respective Honours Coordinators.

In some circumstances this course 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

Restriction: MBBS students only

Assessment: oral presentation 10%, written tutorial assignment 30%, group presentation 10%, 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. They 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 IHS**

4 units - semester 1 or 2

3 hour session per week

Restriction: B.Hlth.Sc. students only

Assessment: oral presentation 10%, written tutorial assignment 30%, group presentation 10%, 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. They 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 4000AHO/BHO **Honours Primary Health Care**

24 units - full year

Restriction: B.Med.Sc. students, appropriately qualified B.Hlth.Sc. students, or 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: BIOLOGY 1101/1102 - other students should contact Genetics II Coordinator

Incompatible: GENETICS 2102, GENETICS 2106

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. Other topics include bacterial genetics and regulation of gene expression in prokaryotes and eukaryotes.

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

Restriction: BSc (Molecular Biology) students only

Prerequisite: BIOLOGY 1101/1102 - other students should contact Genetics II Coordinator

Incompatible: GENETICS 2100

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. Other topics include bacterial genetics and regulation of gene expression in prokaryotes and eukaryotes. This course is equivalent to the lecture and tutorial component in GENETICS 2100.

GENETICS 2106 **Genetics IIA (Biomedical Science)**

4 units - semester 1

3 lectures, 1 tutorial, 1 practical per week

Restriction: BSc (Biomed Sc) students only

Prerequisite: BIOLOGY 1101/1102 - other students should contact Genetics II Coordinator

Incompatible: GENETICS 2100

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. Other topics include bacterial genetics and regulation of gene expression in prokaryotes and eukaryotes.

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 2107 **Genetics IIA (Med Surg)**

3 units - semester 1

3 lectures, 1 tutorial per week

Restriction: Medicine Surgery Students Only

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. Other topics include bacterial genetics and regulation of gene expression in prokaryotes and eukaryotes.

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: BIOLOGY 1101/1102 - other students should contact Genetics II Coordinator

Assumed Knowledge: GENETICS 2100

Incompatible: GENETICS 2202, GENETICS 2206

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 structure and function of nuclear and organellar genomes, genetic dissection of the cell cycle, cancer as a genetic disease, human genetics 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

Restriction: BSc (Molecular Biology) students only

Prerequisite: BIOLOGY 1101/1102 - other students should contact Genetics II Coordinator

Assumed Knowledge: GENETICS 2102

Incompatible: GENETICS 2200

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 structure and function of nuclear and organellar genomes, genetic dissection of the cell cycle, cancer as a genetic disease, human genetics 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

Restriction: BSc (Biomedical Science) students only

Prerequisite: BIOLOGY 1101/1102 - other students should contact Genetics II Coordinator

Assumed Knowledge: GENETICS 2106

Incompatible: GENETICS 2200

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 structure and function of nuclear and organellar genomes, genetic dissection of the cell cycle, cancer as a genetic disease, human genetics 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 aims to develop advanced literature research skills, teamwork experience, and written and oral presentation skills.

GENETICS 2207 **Genetics IIB (Med Surg)**

3 units - semester 2

3 lectures, 1 tutorial per week

Restriction: Medicine Surgery Students Only

Assessment: exam, tutorial assessment

This course aims to provide an appreciation of the power of genetic analysis, building on the concepts developed in GENETICS 2107. Topics include structure and function of nuclear and organellar genomes, genetic dissection of the cell cycle, cancer as a genetic disease, human genetics and genetic control of embryo development. The course concludes with an overview of molecular evolution and the genetics of populations.

GENETICS 3110 Advanced Molecular Biology IIIA (Genetics)

6 units - semester 1

3 x 1hr lectures; 5hr practical; 1hr tutorial

Restriction: Only for BSc (Molecular Biology) students

Prerequisite: BIOCHEM 2102 & 2202, GENETICS 2100 or 2102 & GENETICS 2200 or 2201

Incompatible: BIOCHEM 3125, GENETICS 3111, BIOCHEM 3002,3000

Assessment: written exam on lecture material, written & oral reports on practicals and tutorials

This course combines lectures from GENETICS 3111 with practical exercises and/or laboratory placements in professional research laboratories. It includes a special set of tutorial/Problem Based Learning (PBL) exercises, not offered in any other course, which are designed to provide students with a perspective of how cutting-edge molecular biology principles and techniques are applied to major research questions. The PBL segment of course will include aspects of biochemistry, genetics, microbiology/immunology and chemistry. This course will illustrate that cross-disciplinary approaches are essential in modern research.

GENETICS 3111 Genes, Genomes and Molecular Evolution

6 units - semester 1

6 lectures, 1 tutorial, 3 four hour practicals per fortnight

Available for Non-Award Study

Prerequisite: GENETICS 2100 & GENETICS 2200 or GENETICS 2102 & GENETICS 2202 or GENETICS 2106 & GENETICS 2206, or GENETICS 2100 for BSc(Biotech) students only

Incompatible: GENETICS 3110, GENETICS 3000, 3002

Assessment: exam, practical component, written reports

The DNA molecules that comprise the informational basis of inheritance in living organisms are collectively referred to as the genome. In this course the organisation, origin and mechanisms of change of prokaryotic and eukaryotic genomes are explored using cytogenetic and molecular genetic analyses. Topics include - structure and function of genomes and chromosomes; chromosomes in disease; genomics; genome evolution; interactions between nuclear, mitochondrial and chloroplast genomes; mechanisms for the generation and maintenance of diversity in eukaryotes; the roles of natural selection and chance as drivers of molecular evolution; molecular phylogeny.

GENETICS 3210 Advanced Molecular Biology IIIB (Genetics)

6 units - semester 2

3 x 1hr lectures; 1 x 5hr practical; 1 x 1hr tutorial

Restriction: Only for BSc (Molecular Biology) students

Prerequisite: BIOCHEM 2102 & 2202, GENETICS 2100 or 2102 & GENETICS 2200 or 2201

Assumed Knowledge: GENETICS 3110

Incompatible: BIOCHEM 3225, GENETICS 3006

Assessment: written exam on lecture material, written and oral reports on practicals and tutorials

This course combines lectures from GENETICS 3211 Gene Expression and Human & Development Genetics with practical exercises and/or laboratory placements in professional research laboratories. It includes a special set of tutorial/Problem Based Learning (PBL) exercises, not offered in any other course, which are designed to provide students with a perspective of how cutting edge molecular biology principles and techniques are applied to major research questions. The PBL segment of course will include aspects of biochemistry, genetics, microbiology/immunology and chemistry. This course will illustrate that cross-disciplinary approaches are essential in modern research.

GENETICS 3211 Gene Expression and Human & Developmental Genetics

6 units - semester 2

6 lectures, 1 tutorial, 3x4 hour practicals per fortnight

Available for Non-Award Study

Prerequisite: GENETICS 2100 & GENETICS 2200 or GENETICS 2102 & GENETICS 2202 or GENETICS 2106 & GENETICS 2206, GENETICS 2100 - BSc(Biotech) students only

Assumed Knowledge: GENETICS 3111

Incompatible: GENETICS 3210, GENETICS 3005, 3006

Assessment: exam, practical component, written reports

This advanced genetics course examines the diverse molecular mechanisms that control the expression of genes in prokaryotes and eukaryotes. It continues with a description of the human genome and a description of how genes are regulated during development. Topics include the regulation of gene expression; epigenetic events; the genetic and epigenetic basis of human disease (including cancer); neurogenetics; gene therapy; genetic control of development.

GENETICS 3212 Gene Expression and Human & Development Genetics (Biomed)

6 units - semester 2

6 lectures, 1 tutorial, 3x4 hour practicals per fortnight

Restriction: BSc. (Biomed.) students only

Prerequisite: GENETICS 2100 & GENETICS 2200, or GENETICS 2106 & GENETICS 2206

Incompatible: GENETICS 3211, GENETICS 3005, 3006

Assessment: exam, reports of practical component

This advanced genetics course examines the diverse molecular mechanisms that control the expression of

genes in prokaryotes and eukaryotes. It continues with a description of the human genome and a description of how genes are regulated during development. Topics include - the regulation of gene expression; epigenetic events; the genetic and epigenetic basis of human disease (including cancer); neurogenetics; gene therapy; genetic control of development.

Subject to availability, the practical component of this course is a placement within a genetic research laboratory which will be arranged by the course convenor.

HONOURS

GENETICS 4000A/B 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.

Geographical and Environmental Studies

LEVEL I

GEST 1001 Globalisation, Justice and a Crowded Planet

3 units - semester 2

3 contact hours per week, fieldwork

Incompatible: GEOG 1004

Assessment: tutorial participation, attendance, exercises 20%, workshop participation and attendance 20%, essay 20%, exam 40% - total approx 4500 words

This course is concerned with three of the most important global forces operating on human populations at local, national and international scales: (i) population growth and migration, (ii) processes of globalisation and (iii) environmental scarcity and degradation. The course examines these global forces as it presents different ways of conceptualising globalisation and investigates the precise nature of local-global relations. Students will be introduced to the political, economic and cultural processes of globalisation and, drawing on local and

international case studies, they will consider the social and environmental consequences of these processes for people living in different locations. In particular, the course investigates whether and how processes of globalisation operate to create, maintain and deepen inequality, poverty and injustice amongst individuals, groups, regions and nations. The course also explores population growth and migratory shifts and considers the role that these demographic changes have in broader processes of globalisation.

GEST 1002 Footprints on a Fragile Planet

3 units - semester 1

3.5 contact hours per week

Assessment: Field Report 25%, tutorial exercises 20%, exam 25%, class participation 10%, practical work 20% total approx 4500 words

This course looks at the heavy footprint humans have placed on Planet Earth. We address, in turn, the main components of habitable parts of the planet and examine the fundamental, natural processes within each. With this grounding we then superimpose the impact of indigenous people, and then the excesses of post-industrial humanity, upon them to reveal the consequences of the activities of modern society.

Firstly we review the global processes that have led to the configuration of the Planet's continents and then the means by which humans have colonised every corner. We then focus on how the unwise use of natural resources in both the developed and developing nations has resulted in loss of fertile soil and driven an expansion of desertic conditions. We then examine global climate processes and changes humans have made to regional climates and the atmosphere upon which we rely. We then turn to the water cycle and focus on how the crucial resource of water has been compromised. Finally, the complexities of natural biota and communities are examined with a focus on biodiversity, invasive species, fire and forest management, and the importance of wetlands.

Environmental assessment requires an understanding, not only of the processes that can be identified today, but of the rate, sequence and nature of changes which have taken place in our recent past. Environmental management demands consideration, not only of environmental processes, but also the social and political constraints to change.

GEST 1003 Thinking Economically

3 units - semester 2

3 contact hours per week

Available for Non-Award Study

Assessment: essay 30%, tutorial exercises, tests 30%, exam 40%

This course provides a general introduction to the field of economics with its application to current social and environmental issues. The course is has been designed primarily to suit students who have little or no background in the subject, considering basic economic thoughts

and concepts that govern everyday decision-making by consumers, firms and government. The topics of the course include marginal analysis, opportunity cost, externalities, prisoner's dilemma, carbon emissions trading, and the relationship between economic growth and environmental degradation. The course first covers those concepts that explain the behaviour of consumers and business firms, including diminishing marginal utility, opportunity cost and the profit-maximising rule. Social or public economic concepts such as externalities and the 'prisoner's dilemma' are then investigated. Next, economy-wide problems and issues including economic growth, inflation and unemployment are introduced. Instead of using mathematical techniques, the course uses graphical and other illustrative material to demonstrate economic concepts. In addition, material from newspapers, literature and drama are often used to communicate and illustrate the subject matter effectively.

LEVEL II

GEST 2009 Introduction to Environmental Impact Assessment

4 units - semester 1

3 contact hours per week

Prerequisite: 6 units Level I Humanities/Social Sciences/Sciences

Incompatible: GEST 3009

Assessment: seminar participation, presentations 25%, essays/reports 30%, take home paper 45%

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.

GEST 2011 Biogeography and Biodiversity Conservation

4 units - semester 2

2 lectures, 3 hours practical/tutorial per week, plus fieldwork

Prerequisite: 6 units Level I Humanities/Social Sciences

Incompatible: GEST 3011, GEOG 2001, GEOG 3001

Assessment: field report 60%, exam 40%

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.

GEST 2016 Population, Environment and Health

4 units - semester 2

3 contact hours per week

Prerequisite: 6 units Level I Humanities/Social Sciences/Sciences

Incompatible: GEST 3016, GEOG 3014, GEOG 2014

Assessment: tutorial participation 10%, tutorial paper, presentation 20%, essay 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.

GEST 2020 Urban Futures: Environmental and Social Issues

4 units - semester 1

3 contact hours per week, fieldwork

Prerequisite: 6 units Level I Humanities/Social Sciences/Sciences

Incompatible: GEST 3020

Assessment: exam 40%, essay 30%, tutorial exercises, participation 30% - total approx 6000 words

This course focuses on the city. By the end of this decade, more than half of the world's population will live in cities, making humanity a predominantly urban species. With reference to cities in both Australian and global contexts, this course surveys the processes, potentialities and problems of urbanisation. It introduces students to the environmental consequences of urbanisation, the city as a dynamic cultural space, the socio-economic 'drivers' of urbanisation and urban governance. The course will also explore what has been described as a 'global urban crisis' caused by urban sprawl, which in turn causes problems of water and energy supply, pollution, increasing

inequalities and socio-economic stratification, and is responsible for the rise of the 'mega-urban region'.

GEST 2021 Resource Scarcity and Allocation

4 units - semester 1

3 contact hours per week

Prerequisite: 6 units Level I Humanities/Social Sciences/Sciences

Incompatible: GEST 3021

Assessment: essays 50%, exam 40%, workshop participation, exercises 10%

The course aims to generate an understanding of the complex issues arising when decisions have to be made about the management, conservation and use of scarce natural resources, and of the interface between economics, ecology, sociology, law and other disciplines, with respect to these decisions. The primary concern of the course is over the sustainable exploitation of non-renewable and renewable natural resources, including minerals, water resources, fisheries and forests, in an Australian context.

GEST 2022 Introductory Geographic Information Systems

4 units - semester 1

4 contact hours per week

Prerequisite: 6 units Level I Humanities/Social Sciences/Sciences

Assumed Knowledge: intermediate computer skills

Incompatible: GEST 3022

Assessment: practical exercises/reports 80%, tutorial 20% - total approx 4800-6000 words

This course provides an introduction to the theory and practice of geographic information systems (GIS). What is geographic data? What is GIS? How is GIS applied in the study of real world issues? This course will introduce some of the basic concepts of GIS, input of data, storage and management of data, modelling geographic data and output from GIS. Concepts such as how to model the complex real world in a computer and the difference between data and geographic data are covered. Lectures cover the basics of GIS, vector and raster data models, geographic data analysis, visualisation techniques and geographic data overlay. Importantly, the focus of this course is in the application of GIS to solving real world problems using examples from environmental issues. The practical sessions build basic skills in GIS such as adding data, visualising data, analysing and modelling data and outputting data using data and examples from the above subject areas.

GEST 2025 Environment & Development

4 units - semester 1

3 contact hours per week

Available for Non-Award Study

Prerequisite: 6 units Level 1 Humanities/Social Sciences

Incompatible: GEST 3025

Assessment: essays 50%, tutorial preparation 10%, research report 40%

This course examines the interface between development and environmental issues in a global context. Students will develop a strong foundation in the theoretical and material linkages between environment and development processes. Various perspectives are examined to link environmental issues to wealth, poverty, consumption, population, and economic globalisation, with a focus on the Asia Pacific. Topics explored theoretically and through case studies may include global climate change, waste, modern genetics and its use in agriculture; water, deforestation, conservation of biodiversity, and technologies in everyday life. Students will develop an awareness of international institutions that are active in regulating environment and development issues. An emphasis will be made on understanding and supporting policy decision-making processes effecting development and the environment using an evidence-based approach.

GEST 2026 Climate Change & Catchment Management

4 units - semester 2

3 contact hours per week

Prerequisite: 6 units Level I Humanities/Social Sciences

Incompatible: GEST 3026

Assessment: practical, field trip reports 40%, essay 30%, written exam 30%

Climate change and the management of water resources represent two of the greatest challenges for humanity in the 21st century and are particularly compelling issues in the Australian context. This course addresses these issues with reference to Australian and international case studies. The course begins by examining global climate patterns which determine the distribution of rain. In order to contextualise current global climates, the course examines the historic record of climate change and variability before considering the scientific prognosis for climate change as described in the scientific reports of the International Panel for Climate Change CC. The impacts of climate change on both society and the natural environment are then considered. The course then shifts to an intensive examination of how climate change and its impacts on water resources can be managed at the catchment scale. This focus begins with an examination of the role of water catchments in distributing rainfall and the spatial and temporary variability in the availability of water. The integrated management of water resources at the catchment scale is then directly considered. Finally the course explores options to mitigate and manage the forecast impacts of climate change. Lectures will be supported by practical exercises and/or workshops. The course also involves field trips in which local water supply catchments are surveyed and contestation of water resources along the River Murray is considered.

GEST 2100

Social Science Techniques

4 units - semester 1

3 contact hours per week

Prerequisite: 6 units Level I Humanities/Social Sciences

Incompatible: SOCI 2002

Assessment: weekly preparation, participation, tutorials/workshops, exam

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. 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. The practical component of this course incorporates a series of computer workshops.

LEVEL III

GEST 3009

Introduction to Environmental Impact Assessment

6 units - semester 1

3 contact hours per week

Prerequisite: 8 units Level II Humanities/Social Sciences/Sciences

Incompatible: GEST 2009

Assessment: seminar participation, presentations 25%, essays/reports 30%, take home paper 45% - total approx 9000 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.

GEST 3011

Biogeography and Biodiversity Conservation

6 units - semester 2

2 lectures, 3 hours practical/tutorial per week, fieldwork

Prerequisite: 8 units Level II Humanities/Social Sciences

Incompatible: GEST 2011, GEOG 2001, GEOG 3001

Assessment: field trip report 60%, written exam 40%, 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.

GEST 3016

Population, Environment and Health

6 units - semester 2

3 contact hours per week

Prerequisite: 8 units Level II Humanities/Social Sciences/Sciences

Incompatible: GEST 2016, GEOG 3014, GEOG 2014

Assessment: tutorial participation 10%, tutorial paper, presentation 20%, essay 30%, exam 40% - total approx 9000 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 and Africa. 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.

GEST 3020

Urban Futures: Environmental and Social Issues

6 units - semester 1

3 contact hours per week, fieldwork

Prerequisite: 8 units Level II Humanities/Social Sciences/Sciences

Incompatible: GEST 2020

Assessment: exam 40%, essay 30%, tutorial exercises, participation 30% - total approx 9000 words

This course focuses on the city. By the end of this decade, more than half of the world's population will live in cities, making humanity a predominantly urban species. With reference to cities in both Australian and global

contexts, this course surveys the processes, potentialities and problems of urbanisation. It introduces students to the environmental consequences of urbanisation, the city as a dynamic cultural space, the socio-economic 'drivers' of urbanisation and urban governance. The course will also explore what has been described as a 'global urban crisis' caused by urban sprawl, which in turn causes problems of water and energy supply, pollution, increasing inequalities and socio-economic stratification, and is responsible for the rise of the 'mega-urban region'.

GEST 3021

Resource Scarcity and Allocation

6 units - semester 1

3 contact hours per week

Prerequisite: 8 units Level II Humanities/Social Sciences/Sciences

Incompatible: GEST 2021

Assessment: essays 50%, exam 40%, tutorial participation, exercises 10% - total approx 9000 words

The course aims to generate an understanding of the complex issues arising when decisions have to be made about the management, conservation and use of scarce natural resources, and of the interface between economics, ecology, sociology, law and other disciplines, with respect to these decisions. The primary concern of the course is over the sustainable exploitation of non-renewable and renewable natural resources, including minerals, water resources, fisheries and forests, in an Australian context.

GEST 3022

Introductory Geographic Information Systems

6 units - semester 1

4 contact hours per week

Prerequisite: 8 units Level II Humanities/Social Sciences/Sciences

Assumed Knowledge: intermediate computer skills

Incompatible: GEST 2022

Assessment: practical exercises/reports 80%, tutorial 20% - total approx 7200-9000 words

This course provides an introduction to the theory and practice of geographic information systems (GIS). What is geographic data? What is GIS? How is GIS applied in the study of real world issues? This course will introduce some of the basic concepts of GIS, input of data, storage and management of data, modelling geographic data and output from GIS. Concepts such as how to model the complex real world in a computer and the difference between data and geographic data are covered. Lectures cover the basics of GIS, vector and raster data models, geographic data analysis, visualisation techniques and geographic data overlay. Importantly, the focus of this course is in the application of GIS to solving real world problems using examples from environmental issues. The practical sessions build basic skills in GIS such as adding data, visualising data, analysing and modelling data and outputting data using data and examples from the above subject areas.

GEST 3025

Environment & Development

6 units - semester 1

3 contact hours per week

Prerequisite: 8 units Level II Humanities/Social Sciences

Incompatible: GEST 2025

Assessment: essays 50%, tutorial preparation 10%, research report 40%

This course examines the interface between development and environmental issues in a global context. Students will develop a strong foundation in the theoretical and material linkages between environment and development processes. Various perspectives are examined to link environmental issues to wealth, poverty, consumption, population, and economic globalisation, with a focus on the Asia Pacific. Topics explored theoretically and through case studies may include global climate change, waste, modern genetics and its use in agriculture; water, deforestation, conservation of biodiversity, and technologies in everyday life. Students will develop an awareness of international institutions that are active in regulating environment and development issues. An emphasis will be made on understanding and supporting policy decision-making processes effecting development and the environment using an evidence-based approach.

GEST 3026

Climate Change & Catchment Management

6 units - semester 2

3 contact hours per week

Prerequisite: 8 units Level II Humanities/Social Sciences

Incompatible: GEST 2026

Assessment: practical & field trip reports 40%, essay 30%, written exam 30%

Climate change and the management of water resources represent two of the greatest challenges for humanity in the 21st century and are particularly compelling issues in the Australian context. This course addresses these issues with reference to Australian and international case studies. It begins by examining global climate patterns which determine the distribution of rain. In order to contextualise current global climates, and examines the historic record of climate change and variability before considering the scientific prognosis for climate change as described in the scientific reports of the International Panel for Climate Change CC. The impacts of climate change on both society and the natural environment are then considered. The course then shifts to an intensive examination of how climate change and its impacts on water resources can be managed at the catchment scale. This focus begins with an examination of the role of water catchments in distributing rainfall and the spatial and temporary variability in the availability of water. The integrated management of water resources at the catchment scale is then directly considered. Finally the course explores options to mitigate and manage the forecast impacts of climate change.

Lectures will be supported by practical exercises and/or workshops and also involves field trips in which local water supply catchments are surveyed and contestation of water resources along the River Murray is considered

GEST 3100 **Environmental Studies Internship**

6 units - semester 2

3 contact hours per week (except during main work experience)

Restriction: B.Env.Policy & Mgt students only

Quota will apply

Prerequisite: average credit level pass in GEST 2002, at least 2 other Level II Geographical & Environmental Studies courses

Incompatible: ENVT 3015

Assessment: seminar participation, 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

GEST 4401A/B **Honours Geographical & Environmental Policy & Management**

24 units - full year

Prerequisite: UG degree with credit average in courses contributing to major in Geography, Environmental Studies or equiv approved by Head of Discipline

Assessment: 15000-20000 word dissertation; essays/project work for each elective totalling 7000-9000 words per topic

Students wishing to take Honours Geographical & Environmental Studies should consult the Honours Coordinator prior to commencing Level II.

The course consists of two parts: a coursework component and a research component, each worth 50%. In the coursework component, students complete a compulsory workshop on research methods and theory and one elective course. The available electives reflect more specialist areas of study in Geographical and Environmental Studies. Students can choose from a range of electives which might include: Biodiversity and Environmental Change; Integrated Coastal Management; Advanced Quantitative Research Techniques; Urban Habitats; The Ecologies of Cities; and Environmental Governance. In the research component, students

conduct a research project under the supervision of a staff member culminating in a research dissertation.

Geology

LEVEL I

GEOLOGY 1100 **Earth's Interior I**

3 units - semester 2

3 lectures, 3 hours practical work per week, field work

Incompatible: C&ENVENG 1007, GEOLOGY 1104, GEOLOGY 2005 & PETROENG 1003

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 formation 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 1103 **Earth Systems**

3 units - semester 1

3 lectures, 3 hour practical per week

Incompatible: GEOLOGY 1200

Assessment: written exams, assignments, practical work

This course draws from all fields of geoscience to explore the evolution of Planet Earth. Topics include the evolution of the solar system and the solid earth, the concept of deep time; the Plate Tectonic theory, in which the Earth's plates are colliding, generating earthquakes, volcanoes and mountain belts; the evolution of Earth's atmosphere and oceans; the Earth's climate, including the Earth in space, hydrologic cycle, the carbon cycle and the 'greenhouse effect'; the development and future of our unique Australian landscape and resources.

GEOLOGY 1104 **Geology for Engineers**

3 units - semester 1

3 lectures and one practical per week, some fieldwork

Restriction: Only students in BE (Civil & Struct), BE (Civil & Env), BE (Mining)

Incompatible: GEOLOGY 1100

Assessment: theory exam 50%, practical work 50% - minimum 40 % necessary in both theory & practical to obtain pass

This is an introductory course on mineralogy, the major rock groups, plate tectonics and the major geological processes, geophysics, structural geology, the fundamentals of ore deposit geology and metallic and

non-metallic exploration. The geology of energy deposits (coal, oil shale, petroleum, hot dry rock and uranium) and environmental matters associated with mining will also be dealt with. There will be laboratory-based practicals introducing identification of minerals and rocks, geophysical site investigations, and practicals based on case studies.

GEOLOGY 1200 **Earth's Environment I**

3 units - semester 2

3 lectures, 3 hour practical work per week

Restriction: Only students in B.Sc (Ag.Sc), B.Sc (NR.Mgt.), B.Sc (Viti.) and any program outside Faculty of Sciences

Incompatible: GEOLOGY 1103, SOIL&WAT 1000RW

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 hours lectures & practical work

Restriction: Only students in BE (Civil & Struct), BE (Civil & Env), BE (Mining)

Incompatible: GEOLOGY 1100

Assessment: theory exam 50%, practical exams, laboratory work, field excursions (attendance & report) (compulsory & non-redeemable) 50% - minimum 40% necessary in both theory & 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 also be dealt with. There will be laboratory-based practicals introducing identification of minerals and rocks, geophysical site investigations, and 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 lectures, 6 hours practical classes per week/12 weeks, single day field excursion

Prerequisite: GEOLOGY 1100 or GEOLOGY 1200 or GEOLOGY 1103

Assumed Knowledge: Some secondary school chemistry

Incompatible: GEOLOGY 2000

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, excursion

Assumed Knowledge: GEOLOGY 1100

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 palaeontology is taught using key South Australian examples.

GEOLOGY 2008 **Landscape Processes and Environments II**

4 units - semester 2

3 hours lectures, 5 hours practical per week/12 weeks, 7 days in field - soil & regolith surveys

Assumed Knowledge: GEOLOGY 1200 or GEOLOGY 1103

Incompatible: GEOLOGY 2008

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-year 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.

GEOLOGY 2009 Economic & Mine Geology

4 units - semester 2

3 lectures and 1 practical per week

Restriction: Available to BE (Mining) students only

Assumed Knowledge: C&ENVENG 1007, C&ENVENG 1006

Assessment: exam, practical work & assignment/s

The course looks at the major magmatic ore deposits of diamond, nickel, platinum group elements, chromium and vanadium and examples of major hydrothermal ore deposits of base metals, gold, tin, tungsten, uranium, rare earth elements and surficial deposits of iron, manganese, nickel, cobalt, gold and gems. This information will be integrated with introductory material on exploration, exploitation, minerals processing, metals marketing and mine financing.

LEVEL III

GEOLOGY 3008 Geophysics III

3 units - semester 2

3 lectures, 3 hours practical, 1 tutorial per week

Assumed Knowledge: GEOLOGY 2008 or PHYSICS 1100/1200 or PHYSICS 1101 or MATHS 1011/1012 or MATHS 1013/2004

Incompatible: GEOLOGY 3008, GEOLOGY 3008, GEOLOGY 2002

Assessment: continuous assessment 50%, end of semester exam 50%

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 background for a career in solid-earth, exploration and environmental geophysics. It is split into three sections: (i) seismic methods (ii) electromagnetic methods and (iii) potential field methods (mainly gravity and magnetics). In each section, we start with the underlying mathematical basis and examine applications at global, exploration and

environmental scales. The course also involves methods of geophysical data analysis, modelling, visualisation and interpretation through a series of computer laboratories. Students will be introduced to career options through industry visits and involvement with the Australian Society of Exploration Geophysicists. The course is aimed at students from a range of numerate scientific backgrounds including geoscience, physics, engineering, mathematics and computer sciences.

GEOLOGY 3013 Tectonics III

3 units - semester 1

7 hours lectures/tutorials, practicals per week/12 weeks

Assumed Knowledge: GEOLOGY 2006, GEOLOGY 2007

Incompatible: GEOLOGY 3002

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 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 examples from the tectonic evolution of the Australian Plate. A four-day field excursion to Kangaroo Island to examine an ancient orogen is an integral part of this course.

GEOLOGY 3014 Environmental Geoscience Applications III

3 units - semester 2

2 lectures, 5 hours practical work, 8 days field work

Assumed Knowledge: GEOLOGY 2008, GEOLOGY 2008

Incompatible: GEOLOGY 3014, GEOLOGY 3009, GEOLOGY 3011

This course covers advanced aspects of geological processes in near-surface geological environments and the methods used to quantify these processes in time and space. Current applied environmental issues, such as soil salinity, erosion, coastal degradation and their management will be looked at from the geological perspective. The relevance of the geochemistry of soil and regolith are treated in their application in mineral exploration, contamination control and waste management. Natural geohazards like earthquakes and floods are related to tectonic activities and climatic variation on local, regional and global scales.

Man-made and natural environmental impacts will be critically reviewed and possible solutions will be discussed. These include deep aquifer water storage, CO₂ sequestration, and nuclear waste deposition. Thus the

course will draw on the basic principles of sedimentation, erosion and weathering on the earth's surface as well as tectonic, magmatic and geochemical processes. Geo-microbiological principles are introduced as an integrative part of the soil/regolith evolution process. The course will further include up to eight one-day field visits to sites of integrated field work and site inspection in the vicinity of Adelaide.

GEOLOGY 3015 Environmental Geoscience Processes III

3 units - semester 1

2 lectures, 5 hours practical work, 7 days field work

Assumed Knowledge: GEOLOGY 2008, GEOLOGY 2008

Incompatible: GEOLOGY 3015

Assessment: practical & theory exams, practical reports, field reports & assignments

The aim of this course is to provide an understanding of the fundamental principles of geoscience and an appreciation of their application to practical problems. The course is composed of three interlinked strands: environmental geochemistry, landscape processes and landscape evolution. The recognition, description, origin and development of regolith materials and their relation to land form, climate, and lithology will be introduced in the laboratory and reinforced during actual field survey. The aim of this course is to provide an understanding of the fundamental physical, chemical and mineralogical properties of sediments, soils and indurated regolith.

GEOLOGY 3016 Igneous and Metamorphic Geology III

3 units - semester 1

7 hours lectures/tutorials, practicals per week/12 weeks

Prerequisite: GEOLOGY 2006 or GEOLOGY 2000

Assumed Knowledge: Some secondary school chemistry

Incompatible: GEOLOGY 3004, 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

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 2

2 lectures, 3 hours practical, 1 tutorial a week, 4 days fieldwork

Assumed Knowledge: GEOLOGY 2006

Incompatible: GEOLOGY 3003, GEOLOGY 3006

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: GEOLOGY 3013, GEOLOGY 3016

Assumed Knowledge: GEOLOGY 2006, GEOLOGY 2007

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.

GEOLOGY 3020 **Reservoir Geoscience Project III**

3 units - semester 1

Restriction: B. Science (Petroleum Geoscience) students only

Prerequisite: GEOLOGY 2007

Corequisite: GEOLOGY 3017

Assessment: project report based on practical exercises & field work

A detailed knowledge of the reservoir rocks is fundamental to understanding the petroleum system. This course aims to give students hands-on experience in reservoir characterisation and its application in the petroleum industry. Topics covered will include the analysis and characterisation of reservoir rocks from drill cores and wireline logs, comparison of core samples with outcrop analogues and upscaling of this data to the field scale.

HONOURS

GEOLOGY 4000A/B **Honours Geology**

24 units - full year

Prerequisite: major in Geology or cognate area, Credit standard in Level III Geoscience or related courses - applicants with less than Credit standard may be accepted with approval of Head of Discipline

Assumed Knowledge: Level III courses in Geology & Geophysics

Assessment: coursework related, research project related

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 Honours enrolment, to the Head of Geology and Geophysics or nominee for approval of candidature. See the Discipline web site for more detailed information: www.ees.adelaide.edu.au/prospective/honours/programs/geology.html/

GEOLOGY 4001A/B **Honours Geophysics**

24 units - full year

Prerequisite: major in Geophysics or cognate area with approval of Head of Discipline, Credit standard in Level III Geoscience or related courses - applicants with less than Credit standard may be accepted with approval of Head of Discipline & Geophysics

Assessment: coursework related, research project related

Students with a different background to that stipulated 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 4002A/B **Honours Environmental Geoscience**

24 units - full year

Prerequisite: major in Environmental Geoscience or cognate area, Credit standard in Level III Geoscience or related courses - applicants with less than Credit standard may be accepted with approval of Head of Discipline

Assumed Knowledge: other Level III courses offered by Geology & Geophysics

Assessment: coursework related, research project related

Candidates may be required to attend course programs in specialised Environmental Geoscience 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 Honours enrolment, to the Head of Geology and Geophysics or nominee for approval of candidature. See the Discipline web site for more detailed information: www.ees.adelaide.edu.au/prospective/honours/programs/geology.html/

GEOLOGY 4003A/B **Honours B.Environmental Science (Geology)**

12 units - full year

Prerequisite: Credit or higher in at least 2 Level III courses approved by Head of Discipline, Geology & Geophysics

Assessment: research proposal, literature review, seminars, thesis 60%, average of 4 specified Level III courses 40%

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 Discipline)

Intending candidates should consult the Head of Discipline and potential supervisors during third year and be prepared to begin studies at the beginning of February or July (mid year intake).

GEOLOGY 4007 **Level IV Geological Study Tour**

3 units - semester 1 or 2

3 hours per day/5 days, excursion, 8 hours per day/7 days

Restriction: B.Env.Sc. students only

Prerequisite: GEOLOGY 1000A/B, GEOLOGY 1001 or GEOLOGY 2005

Corequisite: GEOLOGY 4003A/B

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.

German Studies

LEVEL I

GERM 1002

German IA: Beginners' German

3 units - semester 1

4 contact hours per week

Available for Non-Award Study

Incompatible: 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 IB: Beginners' German

3 units - semester 2

4 contact hours per week

Available for Non-Award Study

Prerequisite: GERM 1002 (or equivalent)

Incompatible: 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. 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 ISA

3 units - semester 1

4 contact hours per week

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, 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 ISB**

3 units - semester 2

4 contact hours per week

Available for Non-Award Study

Prerequisite: GERM 1011 or equiv

Assessment: language - weekly exercises, end of semester tests, tutorial participation; other - essays, end of semester tests or working papers; 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 per week 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 Course Coordinator, 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**

4 units - semester 1

4 contact hours per week

Prerequisite: GERM 1003 (Pass Div 1)

Assessment: language - class tests, semester tests, tutorial participation; other - essays, end of semester tests or working papers; 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 culture lectures with German Studies IS, but will attend their own language classes and tutorials.

GERM 2003 **German Studies IIB: Language and Culture**

4 units - semester 2

4 contact hours per week

Prerequisite: GERM 2002 (or equivalent)

Assessment: language - class tests, semester tests, tutorial participation; other - essays, end of semester tests or working papers; 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 culture lectures with German Studies IS, but will attend their own language classes and tutorials.

GERM 2005 **German in Germany**

4 units - summer semester

Jan - Feb 2007 at Stuttgart Winter University

Prerequisite: 24 units at Level I or equiv

Assessment: as specified for specific language & culture courses taken as part of Stuttgart Winter University program

This course consists of six weeks of full time study at Stuttgart Winter University. 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.

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.

GERM 2008 **German Special Topic II**

4 units - semester 1 or 2

Culture: 3 contact hours per week; Language: 4 contact hours per week

Prerequisite: GERM 1012 culture topic; Language: Sem 1 - 6 units Level I Humanities/Social Sciences; Sem 2 - Language Topic (Semester 1)

Incompatible: Culture: consult the Discipline; Language: not available to students who have completed Level I German

Assessment: Culture: as specified by Discipline; Language: as for German Studies I/IS 60%, 1500 word essay in English on German culture to be negotiated with Course Coordinator 40%

There are two topic choices in this course:

With the Culture option, students will attend lectures in a European Studies course as advised by the Discipline of German Studies or in an option offered by the Discipline of German Studies. Assignments and tutorials will be in German. Students can do either semester 1 or 2 or both semesters.

The Language option 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. Students intending to do Semester 2 of the language topic must complete Semester 1.

GERM 2011

German Studies IISA: Language and Culture

4 units - semester 1

4 contact hours per week

Prerequisite: GERM 1012 or equiv

Assessment: language - weekly exercises, end of semester tests, tutorial participation; other - essays, end of semester tests; 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 Course Coordinator, take the language components of the course at a more advanced level.

GERM 2012

German Studies IISB: Language and Culture

4 units - semester 2

4 contact hours per week

Prerequisite: GERM 2011 or equiv

Assessment: language - weekly exercises, end of semester tests, tutorial participation; other - essays, end of semester tests; 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 Course Coordinator, take the language components of the course at a more advanced level.

LEVEL III

GERM 3002

German Studies IIIA: Language and Culture

6 units - semester 1

4 contact hours per week

Prerequisite: GERM 2003 (or equivalent)

Assessment: language - written exercises, end of semester tests, tutorial participation; other - essays, end of semester tests, working paper; balance of achievement in all aspects required to pass course

This course is a continuation of German Studies IIB. 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 IIIB: Language and Culture

6 units - semester 2

4 contact hours per week

Prerequisite: GERM 3002 or equiv

Assessment: language - written exercises, end of semester tests, tutorial participation; other - essays, end of semester tests, working paper; balance of achievement in all aspects required to pass course

This course is a continuation of German Studies IIIA. 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

January - February 2007 at Stuttgart Winter University

Prerequisite: GERM 2003 or GERM 2012 or equiv

Assessment: as specified for specific language & culture courses taken as part of Stuttgart Winter University

This course consists of six weeks full time study at Stuttgart Winter University. 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 IISB 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 German Studies or the International Office.

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.

GERM 3008 **German Special Topic III**

6 units - semester 1 or 2

Culture: 3 contact hours per week; Language: 4 contact hours per week

Prerequisite: Culture: GERM 2012 OR GERM 3012; Language: sem 1 - 8 units Level II Humanities/Social Sciences; sem 2 - Language Topic (Semester 1)

Incompatible: Culture: consult German Studies for information; Language: not available to students who have completed German language at any level

Assessment: Culture: as specified by Discipline; Language: as for GERM 1002 or GERM 1011 60%, 3000 word essay in English on German culture to be negotiated with the Course Coordinator 40%

There are two topic choices in this course:

With the Culture option, students will attend lectures in a European Studies course as advised by the Discipline of German Studies or in an option offered by the Discipline of German Studies. Students can do either semester 1 or 2 or both semesters. Assignments and tutorials will be in German.

The Language option 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. Students intending to do semester 2 of the language topic, must complete semester 1.

GERM 3011 **German Studies IIISA: Language and Culture**

6 units - semester 1

4 contact hours per week

Prerequisite: GERM 2012 or equiv

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 IIISB: Language and Culture**

6 units - semester 2

4 contact hours per week

Prerequisite: GERM 3011 or equiv

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 4401A/B **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

Assessment: 12000 word dissertation in German, Advanced course in language, Option

Requirements: students will write a dissertation on some aspect of German Studies. Choice of topic 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 Faculty permission 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

3 contact hours per week

Available for Non-Award Study

Assessment: 2 essays, exam, tutorial participation

This course will consider world history from the rise of Europe until World War I. The course will focus on regions/nations such as Europe, Japan, China, Latin America, North America, Africa and the Middle East in the early modern and modern periods. We will discuss the evolving relationship between Europe and the world but also chart the continuity of autonomous traditions in non-Western cultures. Since European culture has such dramatic influence in this period, topics such as the Reformation, the Scientific Revolution and Industrialisation will be a particular focus. 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

3 contact hours per week

Available for Non-Award Study

Assessment: 2500 word essay 40%, 1200 word seminar paper 25%, quizzes 10%, tutorial performance 25%

This course sets out to provide a clear thematic account of the 20th 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

3 contact hours per week

Prerequisite: 6 units Level I Humanities/Social Sciences

Incompatible: HIST 3004

Assessment: 2,500 word research essay, museum exhibition project, 2 hour exam with pre-circulated questions

Australians have variously been described as a nation of sporting champions, yet we lose more often than we win; of 'battling' when we live in relative wealth; and of settling in the 'outback' while we sprawl into cities. We've been characterised as a 'classless' society and an equal one, which is at odds with the experience of many women and unemployed people. We've been introduced as descendents of convicts and 'Poms' when our families are just as likely to have emigrated from Eastern Europe or Asia or lived on this land for thousands of years. Students in this course will learn how each of these descriptions have been evoked for a purpose. They are used by politicians willing to appeal to a particular constituency, and by opponents in debates about federation, immigration, aboriginal rights, welfare, the status of women, and the possibility of Australia becoming a republic. In this course, the trajectory of these debates, which have shaped Australian identity, will be explored in addition to the social effects of the 1930s Depression, the legacy of the Menzies and Whitlam Governments, Australia's participation in war and its place in the global village. Students will have the opportunity to recall our long-felt deference to Britain, our more recent acceptance of our Aboriginal heritage, our brief flirtation as an Asian nation, and our current 'coalition' with the United States, and ponder where our future might lay.

HIST 2017

History of Indigenous Peoples of Australia A

4 units - semester 1

3 contact hours per week

Prerequisite: 6 units Level I Humanities/Social Sciences

Incompatible: HIST 3017

Assessment: tutorials, essays

A history of Aboriginal/European relations in colonial Australia, focussing especially on South Australia. The issues addressed will include land rights, Aboriginal responses to colonisation, frontier violence, government policy and administration, missions, Aboriginal engagement in the colonial economy, and European representations of Aboriginal people. As well as examining 'what happened', the course will also examine how aspects of this history have been remembered in regional communities, and within the national community. Special attention will be given to the analysis of primary source materials, and students will be encouraged to develop an original research project.

HIST 2018 **Imperial Russia**

4 units - semester 1

3 contact hours per week

Prerequisite: 6 units Level I Humanities/Social Sciences

Incompatible: HIST 3018

Assessment: 3000 word research essay 50%, seminar paper 10%, final exam 40%

This course covers the entire period of the Romanov Dynasty from its rise out of the Time of Troubles at the beginning of the seventeenth century to its collapse during the February Revolution of 1917. The course develops themes around political, social, economic, military and cultural history. Its overall purpose is to analyse the changing complexion of the Russian state: how it functioned in the face of the numerous strains and pressures as it confronted a modernising world.

HIST 2021 **Modern France: From Revolution to Resistance**

4 units - semester 2

3 contact hours per week

Prerequisite: 6 units Level I Humanities/Social Sciences

Incompatible: HIST 3021

Assessment: essays, seminar attendance & participation

This course addresses key themes in the history of modern Europe with the primary focus on France from the Revolution of 1848 to the end of World War II. For the period 1848-1918, lectures and seminars will cover a range of topics including the revolution and the development of republicanism; the new art; nationalism; anti-Semitism; French feminism; and socialism. For the later period special emphasis will be placed on World War I and its social and cultural impact; and World War II and French responses to German occupation.

HIST 2022 **Islam, Army & State: Indonesia Since 1945**

4 units - semester 1

3 contact hours per week

Prerequisite: 6 units Level I Humanities/Social Sciences

Incompatible: HIST 3022

Assessment: essays or exam

Current developments in Indonesia have dominated Australian media coverage of Asia during the last few years. Timor, the fall of Suharto, the crisis in Aceh, democratisation and the potential radicalisation of Islam - all have drawn attention to the need to understand the recent history of our nearest neighbour to the north. This course encourages students to range over political, social and economic events in Indonesia's recent past, from feminism and its relation to the growth of Indonesian nationalism, to the fall of the New Order regime of President Suharto in 1998. It will examine the late-era history of Dutch colonialism in what was then called The Netherlands Indies, the water-shed decade of the 1940s when war and revolution shattered the colonial regime, and the intertwined history of Indonesia's first President,

Sukarno, and the Communist Party, whose destruction by the army in 1966 at the height of the Cold War in Asia paved the way for Sukarno's removal from power and the rise of Suharto.

HIST 2031 **Ethnic Cleansing and Genocide in Modern Europe**

4 units - semester 2

3 contact hours per week

Prerequisite: 6 units Level I Humanities/Social Sciences

Incompatible: HIST 3031

Assessment: 3000 word essay 50%, seminar participation 20%, final exam 30%

Why do people of different ethnic backgrounds live as a more-or-less united community for long periods of time only to embark upon internecine warfare in which one segment of the community strives to rid itself of another segment of that society? The analysis of this perplexing and important question forms the underlying motivation for this course. Students will analyse and discuss (through tutorials) six case studies (e.g. the Armenian genocide, the man-made famine in Ukraine, the genocide of the mentally ill and retarded in pre-War Germany, the Holocaust, the displacement of the Volksdeutsch after World War II, the deportation of entire ethnic populations in the immediate post war era in the USSR and the 1990s Balkan tragedies). Each student will research one of these case studies as he/she attempts to discover and dissect the common historical, political and sociological threads that unite these tragedies. This exercise will help students come to an understanding of the dynamics which lead to these outbursts of inhumanity, which may very well strike again in Europe, as well as in other parts of the world in the not too distant future.

HIST 2041 **Aboriginal Peoples and the Colonial World**

4 units - semester 2

3 contact hours per week or equivalent

Prerequisite: 6 units Level I Humanities/Social Sciences

Incompatible: HIST 3041

Assessment: essays, tutorials

This course offers a comparative study of the relations between Indigenous people and Anglo-European settlers in societies linked by their colonial origins: Australia, Canada and New Zealand. It considers European ideas about race, land tenure and civilisation that accompanied the spread of settler colonialism from the seventeenth century. The course also explores how Aboriginal peoples responded to the coming of Europeans to their lands. Issues to be covered include: the bases for cooperation between Indigenous peoples and settlers, the causes of conflict between them, frontier violence, schemes for 'Christianisation and Civilisation', Indigenous resistance, and the basis of citizenship in settler societies. A comparative approach identifies some of the common threads that bind former colonies, as well distinguishing the features that make each society unique.

HIST 2042

Medieval Europe: The Crusades to the Black Death

4 units - semester 1

3 contact hours per week

Prerequisite: 6 units Level I Humanities/Social Sciences

Incompatible: HIST 3042

Assessment: essays, exam

A study of the civilization of Western Christendom with particular emphasis on the High Middle Ages, c. 1050-1350. Lecture and tutorial topics will be from the following: The fall of the Roman Empire; The conversion of Europe; Vikings, Saracens and Magyars; the real Dark Ages? Feudal and manorial systems; The agricultural, urban and commercial revolutions; Models of Christendom; the papacy and the Holy Roman Empire; The medieval church: popular religious culture: saints, relics and pilgrimages; The medieval reformation: monastic revival: The apostolic life, the Friars, medieval heresy. Vernacular culture: epics and romances; Occitan culture; courtly love and Arthurian legends; War and Society: chivalry and the just war. The Crusades, the rise and fall of the crusading ideal; The Mediterranean dimension: impact of Arabic and Byzantine worlds on Latin culture. Christianity v Islam; A Twelfth-Century Renaissance? Recovery of law and philosophy, rise of scholasticism, monastic and university learning, Gothic art and architecture; Decline: demographic crisis, the Black Death, bastard feudalism, The Hundred Years' War.

HIST 2046

War & Revolution in Germany & Central Europe: 1914-1990

4 units - semester 1

3 contact hours per week

Prerequisite: 6 units Level I History

Incompatible: HIST 3046

Assessment: short essay 30%, research essay 50%, research exercises 10%, tutorial participation 10%

This course approaches the history of Germany and Central Europe in the twentieth century (including Austria, Czechoslovakia, Hungary, Poland and Yugoslavia) from a comparative regional perspective. It examines the impact of the First World War on the region; the collapse of empire and creation of independent nation-states after 1918; radical nationalism, socialism, conservatism and fascism in the region during the interwar period; Nazi occupation in World War Two; the division of the region into East and West after 1945; everyday life and dissent behind the Iron Curtain; and, finally, the 1989/90 revolutions and collapse of communist regimes.

The course builds on the major themes covered in the Level I twentieth-century History course, and is designed to complement the other history courses on war, fascism, genocide and ethnic violence. It also aims to introduce students to a region of Europe that has undergone dramatic transformations over the past century and continues to undergo further transformation through its accession and integration into the European Union. The course will appeal to all students with an interest in Modern European history, politics and languages.

HIST 2047

Early Modern Europe

4 units - semester 2

3 contact hours per week

Prerequisite: 6 units Level I Humanities & Social Sciences

Incompatible: HIST 3047

Assessment: 500 word library exercise 10%, 500 word online quiz 10%, 3000 word essay 50%, 1000 word class test 20%, tutorial participation 10%

The sixteenth and seventeenth centuries are often claimed by historians to represent the transition between the medieval and the modern worlds. The aim of this course is to examine this notion that the early modern era witnessed the rise of modernity. It will do so by discussing the "key" transformations, including the Black Death, Renaissance, Reformation and Scientific Revolution, but also those aspects of the period which do not seem that modern, like the witch hunts. With an emphasis on primary documents you will be challenged to consider just what constitutes 'modern' and 'medieval' thought and practice. Moreover, we will consider the notion of 'great events' in history and how aptly labels like 'renaissance' periodise our study of the past. But as well as considering these weighty questions, you will have fun too. Through videos, art and extracts from their writings, the images, sounds and words of da Vinci, Luther, Copernicus and the witches will bring this fascinating period in history alive.

HIST 2049

Painters of Modern Life

4 units - semester 1

3 contact hours per week

Available for Non-Award Study

Prerequisite: 6 units of Level I History

Incompatible: HIST 3049

Assessment: 2500 word research paper 35%, 300 word bibliography 5%, 2000 word minor essay 25%, 1000 word final exam 25%, tutorial participation 10%

The course will include readings (a textbook, document book, and a book of readings) and lectures and images shown will address three main themes: Realism and the rise of the avant-garde artist; the city as subject; and Impressionism and neo-Impressionism. Course objectives will be addressed to each of these major themes so that students can become familiar with how major artists addressed key issues to do with life in the modern city.

HIST 2050

Australian Art

4 units - not offered in 2008

3 contact hours per week

Available for Non-Award Study

Prerequisite: 6 units Level I History

Incompatible: HIST 3050

Assessment: 2000 word minor essay 25%, 300 word bibliography 5%, 2500 word research paper 35%, 1000 word final exam 25%, tutorial participation 10%

This course will broadly cover four areas: Colonial art, Heidelberg and federation era art, Modern Australian Art, and Postmodern and Contemporary Australian art. In each area issues such as: colonial arts constructs and a definition of Australia; the construction of a national artform; Indigenous art; and the impact of globalisation will be considered.

LEVEL III

HIST 3004 Australia and the World in the Twentieth Century

6 units - semester 2

3 contact hours per week

Prerequisite: 8 units Level II Humanities/Social Sciences

Incompatible: HIST 2004

Assessment: 3,000 word research essay, museum exhibition project, 2.5 hour exam with pre-circulated questions

Australians have variously been described as a nation of sporting champions, yet we lose more often than we win; of 'battling' when we live in relative wealth; and of settling in the 'outback' while we sprawl into cities. We've been characterised as a 'classless' society and an equal one, which is at odds with the experience of many women and unemployed people. We've been introduced as descendants of convicts and 'Poms' when our families are just as likely to have emigrated from Eastern Europe or Asia or lived on this land for thousands of years. Students in this course will learn how each of these descriptions have been evoked for a purpose. They are used by politicians willing to appeal to a particular constituency, and by opponents in debates about federation, immigration, aboriginal rights, welfare, the status of women, and the possibility of Australia becoming a republic. In this course, the trajectory of these debates, which have shaped Australian identity, will be explored in addition to the social effects of the 1930s Depression, the legacy of the Menzies and Whitlam Governments, Australia's participation in war and its place in the global village. Students will have the opportunity to recall our long-felt deference to Britain, our more recent acceptance of our Aboriginal heritage, our brief flirtation as an Asian nation, and our current 'coalition' with the United States, and ponder where our future might lay.

HIST 3017 History of Indigenous Peoples of Australia A

6 units - semester 1

3 contact hours per week

Prerequisite: 8 units Level II Humanities/Social Sciences

Incompatible: HIST 2017

Assessment: tutorials, essays

A history of Aboriginal/European relations in colonial Australia, focussing especially on South Australia. The issues addressed will include land rights, Aboriginal responses to colonisation, frontier violence, government policy and administration, missions, Aboriginal engagement in the colonial economy, and European representations of Aboriginal people. As well as

examining 'what happened', the course will also examine how aspects of this history have been remembered in regional communities, and within the national community. Special attention will be given to the analysis of primary source materials, and students will be encouraged to develop an original research project.

HIST 3018 Imperial Russia

6 units - semester 1

3 contact hours per week

Prerequisite: 8 units Level II Humanities/Social Sciences

Incompatible: HIST 2018

Assessment: 4000 word research essay 50%, seminars 10%, final exam 40%

This course covers the entire period of the Romanov Dynasty from its rise out of the Time of Troubles at the beginning of the seventeenth century to its collapse during the February Revolution of 1917. The course develops themes around political, social, economic, military and cultural history. Its overall purpose is to analyse the changing complexion of the Russian state: how it functioned in the face of the numerous strains and pressures as it confronted a modernising world.

HIST 3021 Modern France: From Revolution to Resistance

6 units - semester 2

3 contact hours per week

Prerequisite: 8 units Level II Humanities/Social Sciences

Incompatible: HIST 2021

Assessment: essays, seminar attendance & participation

This course addresses key themes in the history of modern Europe with the primary focus on France from the Revolution of 1848 to the end of World War II. For the period 1848-1918, lectures and seminars will cover a range of topics including the revolution and the development of republicanism; the new art; nationalism; anti-Semitism; French feminism; and socialism. For the later period special emphasis will be placed on World War I and its social and cultural impact; and World War II and French responses to German occupation.

HIST 3022 Islam, Army & State: Indonesia Since 1945

6 units - semester 1

3 contact hours per week or equivalent

Prerequisite: 8 units Level II Humanities/Social Sciences

Incompatible: HIST 2022

Assessment: essays or exam

Current developments in Indonesia have dominated Australian media coverage of Asia during the last few years. Timor, the fall of Suharto, the crisis in Aceh, democratisation and the potential radicalisation of Islam - all have drawn attention to the need to understand the recent history of our nearest neighbour to the north.

This course encourages students to range over political, social and economic events in Indonesia's recent past,

from feminism and its relation to the growth of Indonesian nationalism to the fall of the New Order regime of President Suharto in 1998. It will examine the late-era history of Dutch colonialism in what was then called The Netherlands Indies, the water-shed decade of the 1940s when war and revolution shattered the colonial regime, and the inter-twined history of Indonesia's first President, Sukarno, and the Communist Party, whose destruction by the army in 1966 at the height of the Cold War in Asia paved the way for Sukarno's removal from power and the rise of Suharto.

HIST 3031 Ethnic Cleansing and Genocide in Modern Europe

6 units - semester 2
 3 contact hours per week
 Prerequisite: 8 units Level II Humanities/Social Sciences
 Incompatible: HIST 2031
 Assessment: 1500 word essay 20%, 3500 word essay 40%, seminar participation 20%, final exam 20%

Why do people of different ethnic backgrounds live as a more-or-less united community for long periods of time only to embark upon internecine warfare in which one segment of the community strives to rid itself of another segment of that society? The analysis of this perplexing and important question forms the underlying motivation for this course. Students will analyse and discuss (through tutorials) six case studies (e.g. the Armenian genocide, the man-made famine in Ukraine, the genocide of the mentally ill and retarded in pre-War Germany, the Holocaust, the displacement of the Volksdeutsch after World War II, the deportation of entire ethnic populations in the immediate post war era in the USSR and the 1990s Balkan tragedies). Each student will research one of these case studies as he/she attempts to discover and dissect the common historical, political and sociological threads that unite these tragedies. This exercise will help students come to an understanding of the dynamics which lead to these outbursts of inhumanity, which may very well strike again in Europe, as well as in other parts of the world in the not too distant future.

HIST 3041 Aboriginal Peoples and the Colonial World

6 units - semester 2
 3 contact hours per week
 Prerequisite: 8 units Level II Humanities/Social Sciences
 Incompatible: HIST 2041
 Assessment: essays, tutorials

This course offers a comparative study of the relations between Indigenous people and Anglo-European settlers in societies linked by their colonial origins: Australia, Canada and New Zealand. It considers European ideas about race, land tenure and civilisation that accompanied the spread of settler colonialism from the seventeenth century. The course also explores how Aboriginal peoples responded to the coming of Europeans to their lands. Issues to be covered include: the bases for cooperation between Indigenous peoples and settlers, the causes of conflict between them, frontier violence, schemes for

'Christianisation and Civilisation', Indigenous resistance, and the basis of citizenship in settler societies. A comparative approach identifies some of the common threads that bind former colonies, as well distinguishing the features that make each society unique.

HIST 3042 Medieval Europe: The Crusades to the Black Death

6 units - semester 1
 3 contact hours per week
 Prerequisite: 8 units Level II Humanities/Social Sciences
 Incompatible: HIST 2042
 Assessment: essays, exam

A study of the civilization of Western Christendom with particular emphasis on the High Middle Ages, c. 1050-1350. Lecture and tutorial topics will be from the following: The fall of the Roman Empire; The conversion of Europe; Vikings, Saracens and Magyars; the real Dark Ages? Feudal and manorial systems; The agricultural, urban and commercial revolutions; Models of Christendom; the papacy and the Holy Roman Empire; The medieval church: popular religious culture: saints, relics and pilgrimages; The medieval reformation: monastic revival: The apostolic life, the Friars, medieval heresy. Vernacular culture: epics and romances; Occitan culture; courtly love and Arthurian legends; War and Society: chivalry and the just war. The Crusades, the rise and fall of the crusading ideal; The Mediterranean dimension: impact of Arabic and Byzantine worlds on Latin culture. Christianity v Islam; A Twelfth-Century Renaissance? Recovery of law and philosophy, rise of scholasticism, monastic and university learning, Gothic art and architecture; Decline: demographic crisis, the Black Death, bastard feudalism, The Hundred Years' War.

HIST 3046 War & Revolution in Germany & Central Europe: 1914-1990

6 units - semester 1
 3 contact hours per week
 Prerequisite: 8 units Level II History
 Incompatible: HIST 2046
 Assessment: short essay 20%, historiographical essay 20%, research essay 50%, tutorial participation 10%

This course approaches the history of Germany and Central Europe in the twentieth century (including Austria, Czechoslovakia, Hungary, Poland and Yugoslavia) from a comparative regional perspective. It examines the impact of the First World War on the region; the collapse of empire and creation of independent nation-states after 1918; radical nationalism, socialism, conservatism and fascism in the region during the interwar period; Nazi occupation in World War Two; the division of the region into East and West after 1945; everyday life and dissent behind the Iron Curtain; and, finally, the 1989/90 revolutions and collapse of communist regimes.

The course builds on the major themes covered in the Level I twentieth-century History course, and is designed to complement the other history courses on war, fascism,

genocide and ethnic violence. It also aims to introduce students to a region of Europe that has undergone dramatic transformations over the past century and continues to undergo further transformation through its accession and integration into the European Union. The course will appeal to all students with an interest in Modern European history, politics and languages.

HIST 3047 **Early Modern Europe**

6 units - semester 2

3 contact hours per week

Prerequisite: 8 units Level II Humanities & Social Sciences

Incompatible: HIST 2047

Assessment: 500 word library exercise 10%, 500 word online quiz 10%, 4000 word essay 50%, 1000 word class test 20%, tutorial participation 10%

The sixteenth and seventeenth centuries are often claimed by historians to represent the transition between the medieval and the modern worlds. The aim of this course is to examine this notion that the early modern era witnessed the rise of modernity. It will do so by discussing the “key” transformations, including the Black Death, Renaissance, Reformation and Scientific Revolution, but also those aspects of the period which do not seem that modern, like the witch hunts. With an emphasis on primary documents you will be challenged to consider just what constitutes ‘modern’ and ‘medieval’ thought and practice. Moreover, we will consider the notion of ‘great events’ in history and how aptly labels like ‘renaissance’ periodise our study of the past. But as well as considering these weighty questions, you will have fun too. Through videos, art and extracts from their writings, the images, sounds and words of da Vinci, Luther, Copernicus and the witches will bring this fascinating period in history alive.

HIST 3049 **Painters of Modern Life**

6 units - semester 1

3 contact hours per week

Available for Non-Award Study

Prerequisite: 8 units of Humanities & Social Sciences

Incompatible: HIST 2049

Assessment: 2500 word research paper 35%, 300 word bibliography 5%, 2000 word minor essay 25%, 1000 word final exam 25%, tutorial participation 10%

The course will include readings (a textbook, document book, and a book of readings) and lectures and images shown will address three main themes: Realism and the rise of the avant-garde artist; the city as subject; and Impressionism and neo-Impressionism. Course objectives will be addressed to each of these major themes so that students can become familiar with how major artists addressed key issues to do with life in the modern city.

HIST 3050 **Australian Art**

6 units - not offered in 2008

3 contact hours per week

Available for Non-Award Study

Prerequisite: 8 units Level II Humanities & Social Sciences

Incompatible: HIST 2050

Assessment: 2000 word minor essay 25%, 300 word bibliography 5%, 2500 word research paper 35%, 1000 word final exam 25%, tutorial participation 10%

This course will broadly cover four areas: Colonial art, Heidelberg and federation era art, Modern Australian Art, and Postmodern and Contemporary Australian art. In each area issues such as: colonial arts constructs and a definition of Australia; the construction of a national artform; Indigenous art; and the impact of globalisation will be considered.

HONOURS

HIST 4401A/B **Honours History**

24 units - full year

Prerequisite: UG degree, credit average of at least 70% in courses contributing to major in History or equiv approved by Head of Discipline

Assessment: coursework (2 topics) usually in semester 1, 15000 word thesis written in semester 2 (lists of special courses & thesis supervisors are in Honours handbook)

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.

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

Average 6 hours per week including lectures, tutorials, &/or practicals

Assumed Knowledge: ENV BIOL 2006 or equiv

Assessment: exam, assignments

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

Average 6 hours per week including lectures, tutorials, &/or practicals

Assumed Knowledge: ENV BIOL 2006 or equiv

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 3004WT **Olive Production and Marketing**

3 units - semester 2

Mid year break

Assessment: exams, practical, tour reports, major assignment

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.

HONOURS

HORTICUL 4003AWT/BWT **Honours in Horticulture**

24 units - full year

Prerequisite: Credit or higher pass in appropriate Level III courses offered by a Science Discipline

Corequisite: 2 Level III courses offered by Discipline of Wine & Horticulture - at discretion of Head of Discipline, one may be relevant course taught by another discipline

Assessment: to be advised

This course is available under the provisions of Academic Program Rule 5.7.2

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.

Indonesian

LEVEL II

INDO 2004 **Indonesian In-Country**

12 units - semester 1 or 2

For students who wish to study at an Indonesian University. Indonesian language and other courses can be studied. For further information contact the Centre for Asian Studies.

LEVEL III

INDO 3004 **Indonesian In-Country**

12 units - semester 1 or 2

Quota applies

For students who wish to study at an Indonesian University. Indonesian language and other courses can be studied. For further information contact the Centre for Asian Studies.

Information Systems

LEVEL I

ECOMMRCE 1000 **Information Systems I**

3 units - summer semester or semester 1

2 lectures, 1 tutorial, 6 hours self-directed study per week

Available for Non-Award Study

Quota may apply

Assumed Knowledge: basic accounting concepts - students without this are advised to enrol concurrently in ACCTING 1002

Incompatible: not to be counted with COMP SCI 1004 or COMP SCI 1001 or PURE MTH 1002

Assessment: exam, assignments as determined at first lecture

This course covers an introduction to information systems and their role in organisations; 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 in information systems; end-user application software (spreadsheets and

graphics, database management, accounting packages); management perspectives on managing the information technology support role to business.

LEVEL II

ECOMMRCE 2004 Internet Commerce II

4 units - semester 2

2 lectures, 1 tutorial, 8 hours self-directed study per week

Available for Non-Award Study

Assumed Knowledge: fundamentals of World Wide Web, information system development & relational database management systems (eg Microsoft Access) as in Information Systems I

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, 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, 8 hours self-directed study per week

Available for Non-Award Study

Assumed Knowledge: fundamentals of World Wide Web, information system development, relational database design & computerised accounting as taught in Information Systems I

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, enterprise resource planning software, implementation issues, firewalls and security.

International Business

LEVEL II

INTBUS 2000 International Business II

4 units - semester 1

2 hour lecture, 1 tutorial per week

Assessment: mid semester test 10%, class participation 10%, 4000 word group assignment 20%, final exam 60%

The course introduces students to the basic concepts of international business.

Topics include internationalisation theories; the impact of technology on multinational corporations; understanding documentation used in the international business arena; financing multinational operations; and international governance issues. 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.

LEVEL III

INTBUS 3000 Corporate Responsibility for Global Business III

4 units - semester 2

2 lectures, 1 tutorial per week

Assessment: Mid-semester test 10%, class participation 10%, 4000 word group assignment 25%, final exam 65%

This course introduces students to the social challenges faced in the international business arena.

Topics include: introduction to the economics and politics of globalisation and the emergence of 'corporate social responsibility'; internal corporate governance issues - how a company identifies new markets, manages risks, overcomes exporting and importing challenges, deals with the trade law, the WTO and with change management; corporate transparency and corruption; external social challenges concerning legal obligations, consumer rights, labour and human rights issues, poverty, sustainable development and environmental issues.

International Studies

LEVEL II

INST 2001 International Studies (core topic)

4 units - semester 2

3 contact hours 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%

This course focuses on the problems and issues associated with thinking about the concept of 'Globalisation' as a way of understanding the contemporary international system. For example, do we live in an increasingly interconnected globalised world or in a world marked by increased levels of cultural, economic and political fragmentation? The first part of the course looks broadly at the concept of globalisation - its various understandings as economic, political and cultural processes and the relationship between globalisation and militarisation. The second part of the course looks at how global processes 'touch down' in national spaces - drawing upon examples from Asia, Africa, Latin America and Europe. Guest lecturers will provide case studies from countries around the world - exploring the contemporary challenges and issues that they face. In the final part of the course, we focus on issues such as the rise of global cities, democratisation and 'good governance', new forms of war and conflict and factory production. These examples illustrate the complex interplay between local societies and states and processes associated with globalisation in contemporary international studies.

HONOURS

INST 4401A/B Honours International Studies

24 units - full year

Prerequisite: UG degree, credit average in courses contributing to major in International Studies

Assessment: 2 x 5000 word seminars 25% each, 15 000 word thesis 50%

Students wishing to take Honours in International Studies should consult the Honours Coordinator prior to commencing Level II to ensure that appropriate course choices are made in preparation for Honours.

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 the School of History and Politics noticeboard, level 4, Napier Building, for the date of this 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.

Japanese

LEVEL I

JAPN 1001 Japanese IA

3 units - semester 1

3 contact hours per week

Available for Non-Award Study

Assessment: continuous - small tests, assignments, exam

The Japanese IA course is designed for students with little or no previous knowledge of Japanese. This course offers instruction and practice in the four skills of reading, writing listening and speaking, while introducing the basic grammar and vocabulary of modern Japanese as well as the basic writing system, hiragana, katakana and beginners kanji. In classes, emphasis will be placed on developing students' basic communication skills in both spoken and written Japanese to build a solid foundation at the beginner level. The aims of the course are to enhance and consolidate the introductory grammar, to expand knowledge and use of vocabulary in both conversational and written contexts, to develop communication skills and strategies, to become familiar with hiragana, katakana and basic kanji and to become efficient and independent language learners.

JAPN 1002 Japanese IB

3 units - semester 2

3 contact hours per week

Available for Non-Award Study

Prerequisite: JAPN 1001 or equiv

Assessment: continuous - small tests, assignments, exam

The Japanese IB course continues instruction and practice in the four skills of reading, writing, listening and speaking, whilst enabling students to broaden and consolidate their basic knowledge of the Japanese language acquired in Japanese IA. In order to provide a solid foundation at the beginner level in both written and spoken Japanese, literacy skills will be emphasised to further develop towards the elementary level, and communication skills will be reinforced through aural-oral practice in classes.

The basic aims of Japanese IB are to enhance and consolidate the introductory grammar, to expand knowledge and use of vocabulary in both conversational and written contexts, to develop communication skills and strategies, to become familiar with new kanji and to become efficient and independent language learners.

JAPN 1011 **Japanese ISA**

3 units - semester 1

5 contact hours per week

Available for Non-Award Study

Prerequisite: Continuers Japanese (at 15 or better) or equiv

Assessment: continuous - small tests and assignments, exam

The Japanese ISA course is designed for students to consolidate a foundation in the lower elementary level of grammar and vocabulary. This course offers instruction and practice in the four skills of reading, writing listening and speaking, while introducing the lower elementary level of grammar, vocabulary and kanji. In classes, emphasis will be placed on developing students' basic communication skills in both spoken and written Japanese to build a solid foundation at the lower elementary level. The aims of the course are to enhance and consolidate the lower elementary grammar, to expand knowledge and use of vocabulary in both conversational and written contexts, to develop communication skills and strategies, to become familiar with kanji and to become efficient and independent language learners.

JAPN 1012 **Japanese ISB**

3 units - semester 2

5 contact hours per week

Available for Non-Award Study

Prerequisite: JAPN 1011 (or equiv)

Assessment: continuous - small tests and assignments, exam

The Japanese ISB course is designed for students to develop the knowledge of grammar and vocabulary at the lower elementary level. This course offers instruction and practice in the four skills of reading, writing listening and speaking, while introducing the lower elementary level of grammar, vocabulary and kanji. In classes, emphasis will be placed on developing students' basic communication skills in both spoken and written Japanese to further build a solid foundation at the lower elementary level. The aims of the course are to enhance and consolidate the lower elementary grammar, to expand knowledge and use of vocabulary in both conversational and written contexts, to develop communication skills and strategies, to become familiar with kanji and to become efficient and independent language learners.

LEVEL II

JAPN 2001 **Japanese IIA**

4 units - semester 1

5 contact hours per week

Prerequisite: JAPN 1002 or equiv

Assessment: continuous - small tests, assignments, exam

Japanese IIA 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 - semester 2

5 contact hours per week

Prerequisite: JAPN 2001 or equiv

Assessment: continuous - small tests, assignments, exam

Japanese IIB continues instruction and practice in the four skills of reading, writing, listening and speaking through aural-oral practice. Conversational competence will be reinforced and literacy skills will also be emphasised through the use of original texts.

JAPN 2011 **Japanese IISA**

4 units - semester 1

5 contact hours per week

Prerequisite: JAPN 1012 or equiv

Assessment: continuous - small tests and assignments, exam

This course completes the study of elementary grammar, whilst extending students' knowledge of vocabulary and Kanji to a lower-intermediate level. The course enhances students' communicative competence in conversation classes, which deal with a variety of topics. At the same time, increased emphases will be placed on developing reading and writing skills using a substantial number of characters and their combinations.

JAPN 2012 **Japanese IISB**

4 units - semester 2

5 contact hours per week

Prerequisite: JAPN 2011 or equiv

Assessment: continuous - small tests and assignments, exam

This course is a continuation of the Japanese IIIA/IISA course and aims to develop students' Japanese language competence from a lower-intermediate to a higher-intermediate level. In this course, a strong emphasis is placed on enhancing students' practical conversational ability so that they will be able to converse and discuss on a wider range of topics. At the same time, increased emphases will be also placed on developing reading and writing skills.

LEVEL III

JAPN 3001 **Japanese IIIA**

6 units - semester 1

5 contact hours per week

Prerequisite: JAPN 2002 or equiv

Assessment: continuous - small tests and assignments, exam

This course completes the study of elementary grammar, whilst extending students' knowledge of vocabulary and Kanji to a lower-intermediate level. The course enhances

students' communicative competence in conversation classes, which deal with a variety of topics. At the same time, increased emphases will be placed on developing reading and writing skills using a substantial number of characters and their combinations.

JAPN 3002 **Japanese IIIB**

6 units - semester 2

5 contact hours per week

Prerequisite: JAPN 3001 or equiv

Assessment: continuous - small tests and assignments, exam

This course is a continuation of the Japanese IIIA/IISA course and aims to develop students' Japanese language competence from a lower-intermediate to a higher-intermediate level. In this course, a strong emphasis is placed on enhancing students' practical conversational ability so that they will be able to converse and discuss on a wider range of topics. At the same time, increased emphases will be also placed on developing reading and writing skills.

JAPN 3011 **Japanese IIISA**

6 units - semester 1

4 contact hours week

Prerequisite: JAPN 2012 or equiv

Assessment: combination of tests/exams/essays

This course aims to enhance the language skills and competence acquired in Japanese IIIB/IISB, while enabling students to review and integrate their prior knowledge of Kanji, vocabulary and grammar. At the same time, increased emphases will be placed on developing translation skills, by introducing a substantial number of vocabulary, Kanji and grammar points every week. This course also places a strong focus on developing students' advanced communication skills so that they will be able to discuss and express their own opinions on a wider range of topics with an appropriate register. Students will be equipped with basic word-processing skills to write essays/reports in Japanese, as well as receiving introductory training for conducting small-scale research projects using authentic Japanese language source materials such as on-line newspapers.

JAPN 3012 **Japanese IIISB**

6 units - semester 2

4 contact hours per week

Prerequisite: JAPN 3011 or equiv

Assessment: combination of tests/exams/essays

Japanese IIISB course is a continuation of the Japanese IIISA course. This course aims to further enhance the language skills and competence acquired in Japanese IIISA, while enabling students to review and integrate their prior knowledge of kanji, vocabulary and grammar. At the same time, increased emphases will be placed on developing translation skills, by introducing a substantial number of vocabulary, Kanji and grammar points every

week. This course continues to place a strong focus on developing students' advanced communication skills so that they will be able to discuss and express their own opinions on a wider range of topics. Students will be equipped with necessary skills to conduct small-scale research projects using authentic Japanese language source materials, as well as ability to present research in speech and written forms in Japanese.

JAPN 3090 **Japanese for Research A**

6 units - semester 1

4 hours per week

Prerequisite: JAPN 3012 or equiv

Assessment: continuous, exam

This subject is a continuation of Japanese IIISB and is designed for native speakers of Japanese and learners of Japanese at the advanced level. Emphasis is placed on active participation in various language activities according to student interest and need. Japanese sources are used to build students competence in conducting research and analysing issues in Japanese society. All classes are conducted in Japanese

HONOURS

JAPN 4401A/B **Honours Japanese Studies**

24 units - full year

Prerequisite: UG degree with Credit average in courses contributing to major in Japanese or equiv. approved by Head of Discipline

Assessment: advanced level course in Japanese 25%, coursework topic in social science 25%, each with written work of approx. 7200-9000 words or equiv, 15000-17000 word thesis 50% (or 35000-40000 ji if written in Japanese)

Students wishing to take Honours in Japanese Studies are encouraged to consult the Honours Coordinator prior to commencing Level II/III courses to ensure that appropriate course choices are made in preparation for Honours. In order to fulfill the prerequisites, it is necessary to combine the study of language courses with that of Asian studies courses. Entry to Honours is subject to the approval of the Head of Discipline on advice from the Honours Committee. The Honours program consists of three elements: a research thesis, and 2 coursework topics which normally are an advanced level Japanese course, and theory and methodology in Asian studies. Theses written in Japanese are accepted. In some circumstances Honours Asian Studies can be studied part-time over two years or combined with Honours in another discipline. Students wishing to take Honours but who are without prerequisites are advised to consult the Honours Coordinator as soon as possible.

Latin

LEVEL I

LATN 1002 Latin I

3 units - semester 2

3 contact hours per week

Available for Non-Award Study

Prerequisite: AGRE 1102 or equiv

Incompatible: not available to students who reached a satisfactory level of achievement in SACE Stage 2 Latin or equiv

Assessment: semester tests 35%, end of semester exams 65%

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 IIA

4 units - semester 1

3 contact hours per week

Available for Non-Award Study

Prerequisite: LATN 1002 or satisfactory achievement in SACE Stage 2 Latin or equiv

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 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 may be devoted to the reading of (modified) passages from Latin texts, including unseen comprehension.

LATN 2003 Latin IIB

4 units - semester 2

3 contact hours per week

Available for Non-Award Study

Prerequisite: LATN 2002 or equiv

Assessment: 2 end of semester exams - preparation text & discussion text 50%, ability in unseen translation 40%, 2 grammar tests throughout semester 10%

The course aims to: i) consolidate and improve reading skills and understanding of grammatical constructions; ii) enhance ability to comprehend and interpret Latin literature; iii) 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 2100 Latin IIS

4 units - semester 2

3 contact hours per week

Prerequisite: acceptance for Honours & AGRE 2102 or equiv

Incompatible: not available to students who have reached a satisfactory level of achievement in SACE Stage 2 Latin or equiv

Assessment: semester tests 35%, end of semester exam 65%

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 III

LATN 3002 Latin IIIA

6 units - semester 1

3 contact hours per week

Available for Non-Award Study

Prerequisite: LATN 2003 or equiv

Assessment: sentences/proses during semester 15%, 3 exams - preparation text & discussion text 30%, unseen translation & translation from English 40%, private reading text 15%

The course aims to: i) enable students to gain complete mastery over the language structure; ii) improve their reading skills over a variety of genres and writing styles; iii) 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 IIIB

6 units - semester 2

3 contact hours per week

Available for Non-Award Study

Prerequisite: LATN 3002 or equiv

Assessment: sentences/proses during semester 15%, 3 exams - preparation text & discussion text 30%, unseen translation & translation from English 40%, private reading text 15%

The course aims to: i) enable students to gain complete mastery over the language structure; ii) improve their reading skills over a variety of genres and writing styles; iii) 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 IIISA

6 units - semester 1

3 contact hours per week

Prerequisite: acceptance for Honours, LATN 2101 or equiv

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 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 may be devoted to the reading of (modified) passages from Latin texts, including unseen comprehension.

LATN 3012

Latin IIISB

6 units - semester 2

3 contact hours per week

Prerequisite: acceptance for Honours, LATN 3011 or equiv

Assessment: 2 grammar tests during semester 10%, 2 end of semester exams - preparation text & discussion text 50%, ability in unseen translation 40%

The course aims to: i) consolidate and improve reading skills and understanding of grammatical constructions; ii) enhance ability to comprehend and interpret Latin literature; iii) 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 4401A/B

Honours Latin

24 units - full year

Prerequisite: UG degree, credit average in courses contributing to a major in Latin (or equiv approved by Head of Discipline)

Assessment: 4 short, 2 long or 1 long & 2 short texts assessed by exam &/or 6000 word essay 33%, common course - 3000 word seminar paper 12%, proses & end of semester exam on unseen & prose translation 13%, 12500-15000 word dissertation in semester 2 42%

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.

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.

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

36 hours

Restriction: 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 1

4 units - semester 1

40 hours

Prerequisite: LAW 1001

Corequisite: LAW 1001

Assessment: exam 100% or 75%, small group assignment 25%

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 1

4 units - semester 1

40 hours

Prerequisite: LAW 1001

Corequisite: LAW 1001

Assessment: exam 100%, or exam 75%, 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

40 hours

Prerequisite: LAW 1001, LAW 1002, LAW 1003

Assessment: class participation 10%, essay/exercise (to be determined if optional or compulsory) 10% or 20%, exam 70%, 80% 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

40 hours

Prerequisite: LAW 1001, LAW 1003

Assumed Knowledge: LAW 1002

Assessment: exam 100% or 75%, small group written 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 2008

36 hours

Prerequisite: LAW 1001, LAW 2001

Incompatible: not to be presented with LAW 3066

Assessment: to be advised

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.

LAW 1007
Law of Torts 2

4 units - semester 2

1 hour lecture, 2 hour seminar per week

Prerequisite: LAW 1001

Assumed Knowledge: LAW 1002, LAW 1003

Assessment: to be advised

This course will build on the foundations of the introduction to Torts in first semester. The aim of the course is to focus on specific areas of the law including defamation, economic torts, intentional torts and the emerging tort of privacy. The course will include a critical analysis of the role of policy in the development of the

law and closely analyse the interaction of common law and legislation. Students will have the opportunity to focus on specific areas of the law through individual and/or group research projects enabling an understanding of the fundamental role of the modern law of torts. The course will be taught through a combination of lectures, seminars and group activities.

LEVEL II

LAW 2001 Legal Research and Writing

2 units - semester 2

36 hours

Prerequisite: LAW 1001, LAW 1002, LAW 1003

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. 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

Assumed Knowledge: LAW 1002, LAW 1003, LAW 2002

Assessment: to be advised

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

36 hours

Check with School for Non-Award Study

Prerequisite: LAW 1001

Assumed Knowledge: LAW 1002, LAW 1003

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

40 hours

Prerequisite: LAW 1001

Assumed Knowledge: LAW 1002, LAW 1003

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

40 hours

Prerequisite: LAW 1001, LAW 1002, LAW 1003, LAW 1005

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 placed 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 - semester 2

40 hours

Prerequisite: LAW 1001

Corequisite: LAW 1001

Assumed Knowledge: LAW 1002, LAW 1003

Assessment: 3000 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 2009 Sentencing and Criminal Justice

4 units - semester 1

36 hours

Quota may apply

Prerequisite: LAW 1004

Assessment: class participation 20%, essay or exam 80%

The course opens with a survey of current legislative practice in the formulation of criminal offences when distinctions are made between factors that determine guilt and factors that determine the form and duration of punishment. The middle section of the course will deal with common law sentencing principles; legislation establishing sentencing guidelines, detention of dangerous and habitual offenders, mandatory penalties; the role of the victim in the criminal process and alternative correctional measures as, for example, diversion and rehabilitation, community corrections and restorative justice. The concluding section of the course deal with selected topics which may include: quasi criminal sanctions, forfeitures and disqualifications; corporate liability and sanctions; prison law and the administration of correctional sanctions.

LAW 2010 Research Project B

4 units - not offered 2008

5 hours

Prerequisite: LAW 1001, LAW 1002, LAW 1003, 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 - semester 1

30 hours

Prerequisite: LAW 1001

Assumed Knowledge: LAW 1002, LAW 1003

Incompatible: Law 2018, COMM LAW 3010

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 2008

20 hours

Prerequisite: LAW 1001, LAW 1002, LAW 1003

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 2008

36 hours

Quota may apply

Prerequisite: LAW 1001, LAW 2001, LAW 3066

Assessment: To Be Advised

The course involves the examination of current international legal issues at an advanced level. Topics covered will depend on teacher availability and will be drawn from amongst others: 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

Assumed Knowledge: LAW 1002, LAW 1003

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 - not offered 2008

Available for Non-Award Study

Quota may apply

Prerequisite: LAW 1004

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 - summer semester or semester 1 or 2

40 hours - internship

By selection only

Prerequisite: LAW 2085

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 semester

Available for Non-Award Study

Quota may apply

Incompatible: not to be counted with LAW 3021, LAW 2011

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 2008

Available for Non-Award Study

Quota may apply

Assumed Knowledge: LAW 1001, LAW 1003

Assessment: 3000 word research essay

In litigation, remedies are what clients want. The course 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 - not offered in 2008

36 hours

Prerequisite: LAW 1001

Assumed Knowledge: LAW 1002, LAW 1003

Assessment: 4000 word essay 100%

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, LAW 2003

Assumed Knowledge: LAW 1003

Assessment: TBA

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

4 units - semester 1

40 hours

Prerequisite: LAW 1001

Assumed Knowledge: LAW 1002, LAW 1003

Assessment: class participation 20%, essay 40%, exam 40%

A study of: the regulation of trading practices under national and state laws (particularly advertising); remedies for infringement of the standards for fair trading; impact of privatisation; small claims procedures; class actions; assistance for consumers.

LAW 2023 Roman Law

4 units - not offered in 2008

40 hours

Prerequisite: LAW 1001

Assumed Knowledge: LAW 1002, LAW 1003, LAW 1005

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 Court 2

2 units - semester 2

20-30 hours

Restriction: Law students selected by course coordinator/ team coach

Maximum 5 students

Prerequisite: LAW 1001

Assumed Knowledge: LAW 1002, LAW 1003

Assessment: research & skills in oral & written presentation

Students are eligible for the subject by application and selection only. Participants in the Moot Court subject will be selected as members of a team(s) of 3-5 students. The team(s) will prepare material for presentation in moot court competitions to be held within the Law School or in state, national or international competition. A team(s) will also be selected for the Sir Harry Gibbs Constitutional Moot Competition and may be selected for participation in other moot competitions. Participation in Moot Court will require students to acquire skills in the drafting of written submissions and in the oral presentation or legal argument.

LAW 2026 Aboriginal People and the Law

4 units - semester 1 or 2

40 hours

Available for Non-Award Study

Prerequisite: LAW 1001

Assumed Knowledge: LAW 1005

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 2027 Adelaide Law Review A

2 units - semester 1

24 hours

Restriction: By selection only

Quota 12 students

Prerequisite: LAW 1001, LAW 1002, LAW 1003

Assessment: 2,000 word case note 40%, 1000 word critical analysis of submitted articles to the ALR 40%, class participation 20%

The Adelaide Law Review has been since 1962 the flagship publication of the Law School. The journal is peer reviewed and is committed to the publication of legal scholarship of the highest quality. The Course will introduce students to legal publishing and editing. Further students will consider the legal journal as a means of legal education. This course will involve students in the production of the annual editions of the journal. Students will consider the role of legal publications, critically analyse submitted material and comment upon a diverse range of legal scholarship. In addition students will develop skills in advanced legal writing, copy-editing and journal production.

LAW 2028 Adelaide Law Review B

2 units - semester 2

24 hours

Restriction: By Selection Only

Quota 12 students

Prerequisite: LAW 2027

Assessment: 2,000 word review essay 40%, editing of submitted material to ALR 40%, case presentation 20%

This course will build upon Adelaide Law Review A. The course will introduce students to higher level issues related to legal publishing. These will include evaluation of legal submissions and legal research and writing for publication. Students may develop themed issues of the Adelaide Law Review. This will include the determination of contemporary and emerging legal issues, sourcing articles and critical assessment of submissions.

LAW 2031 Financial Transactions

4 units - semester 1

40 hours

Prerequisite: LAW 1001, LAW 1002, LAW 1003, LAW 1005

Assumed Knowledge: completion/concurrent study of LAW 2004

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 2032 Australian Federal Criminal Law

4 units - winter semester

36

Quota may apply

Prerequisite: LAW 1001

Assumed Knowledge: Law 1004

Assessment: 5,000 word research essay 80%, class participation 20%

Most of the more serious federal criminal offences are codified in the Commonwealth Criminal Code. It now consists of eight chapters, ranging in subject matter from offences of dishonesty, through terrorism, sexual slavery, drug trafficking, crimes against humanity and cybercrime. The content of the Code is still growing rapidly. The Code is divided between a general part - Chapter 2 General Principles of Criminal Responsibility - which provides a comprehensive codification of the general principles - and Chapters 4 - 10, the special part of the Code, which contain the substantive offences. Federal criminal law occupies an increasingly large proportion of criminal litigation and federal legislative policy increasingly determines the scope and content of state and territorial laws dealing with fraud, illicit drugs, internet and computer crime. The course will present an overview of federal criminal law. The importance of the general principles of criminal liability will be emphasised and their application will be discussed in a range of substantive areas of criminal law drawn from the following:

Corporate Crime and Cultures of Non Compliance; Federal jurisdiction; Foreign and Domestic Bribery; Crimes of Dishonesty- Identity Theft; Crimes against Infrastructure: cybercrime, money laundering and telecommunications offences; Drug Trafficking Law; Sex Slavery And Child Pornography; The Civil/Criminal Divide: forfeiture and pecuniary penalties; Aspects of Federal Sentencing Law.

LAW 2036 Land Transactions

4 units - not offered 2008

40 hours

Prerequisite: LAW 1005

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 Court B

4 units

40 hours

Prerequisite: LAW 1001

Assumed Knowledge: LAW 1002, LAW 1003

Assessment: research & skills in oral & written presentation

Students are eligible for the subject by application and selection only. Participants in the Moot Court subject will be selected as members of a team(s) of 3 - 5 students.

The team(s) will prepare material for presentation in moot court competitions to be held within the Law School or in state, national or international competition. A team(s) will be selected for the Sir Harry Gibbs Constitutional Moot Competition and may be selected for participation in other moot competitions. Participation in Moot Court will require students to acquire skills in the drafting of written submissions and in the oral presentation or legal argument.

LAW 2053 Feminist Legal Theory

2 units - not offered 2008

20 hours

Prerequisite: LAW 1001

Corequisite: LAW 1001

Assumed Knowledge: LAW 1002, LAW 1003

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 , LAW 1002 , LAW 1003

Corequisite: LAW 1002 , LAW 1003

Assessment: TBA

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 - semester 2

40 hours

Available for Non-Award Study

Quota may apply

Prerequisite: LAW 1001, LAW 1002 , LAW 1003 , LAW 1004

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 2008

40 hours

Prerequisite: LAW 1001

Assumed Knowledge: LAW 1002, LAW 1003

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

Assumed Knowledge: LAW 1002, LAW 1003

Assessment: assignment 60%, exam 30%, tutorial participation 10%

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: wills; distribution upon intestacy; family provision; probate and administration.

LAW 2064 **Jurisprudence**

4 units - semester 1

40 hours

Prerequisite: LAW 1001

Assumed Knowledge: LAW 1002 , LAW 1003

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

Assumed Knowledge: LAW 1002 , LAW 1003, LAW 2003

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**

4 units - semester 1

36 hours

Prerequisite: LAW 1001

Assumed Knowledge: LAW 1005

Assessment: to be advised

This course considers current theories of property and their applicability to social context. The current theories

of property upon which we might rely include the work of JW Harris, David Lametti, CB Macpherson, Stephen Munzer, James Penner, Margaret Jane Radin, Carol Rose, Joseph William Singer and Laura Underkuffler. 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. 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 2008

9 hours

Prerequisite: LAW 1001 , LAW 1002 , LAW 1003

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 2085 **Human Rights: International & National Perspectives**

4 units - summer semester

40 hours

Prerequisite: LAW 1001

Assumed Knowledge: LAW3066 or LAW 1006

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 2008

40 hours

Prerequisite: LAW 1005

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 - not offered in 2008

40 hours

Prerequisite: LAW 1005

Assumed Knowledge: Law 2003

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 1

40 hours

Prerequisite: LAW 2004

Corequisite: LAW 2004

Assumed Knowledge: LAW 1001 , LAW 1002 , LAW 1003

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 2008

40 hours

Prerequisite: LAW 1001

Assumed Knowledge: LAW 1002, LAW 1003

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 1

25 hours

Prerequisite: LAW 1001, LAW 1002 , LAW 1003 , LAW 2005

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 Conflict of Laws

4 units - semester 1

36 hours

Prerequisite: LAW 1001, LAW 1002, LAW 1003, LAW 1005, LAW 2003

Assessment: to be advised

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 an Australian 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 - not offered in 2008

36 hours

Available for Non-Award Study

Prerequisite: LAW 1001

Assumed Knowledge: LAW 1002, LAW 2003 , LAW 2002

Assessment: to be advised

The course will consider the legal regulation of the media in Australia, including 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 (Freedom of expression

and media regulation, national security, freedom of information, monopolisation and trade practices laws). Concepts such as free speech, ethical practise and assess to justice will also be discussed. The focus of the course is an a critical analysis of how the law applies to the media.

LAW 2108 Media Law 2

2 units - not offered in 2008

36 hours

Available for Non-Award Study

Prerequisite: LAW 1001

Assumed Knowledge: LAW 1002, LAW 2003 , LAW 2002

Assessment: to be advised

The course will consider the legal regulation of the media in Australia, including 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 (Freedom of expression and media regulation, national security, freedom of information, monopolisation and trade practices laws). Concepts such as free speech, ethical practise and assess to justice will also be discussed. The focus of the course is an a critical analysis of how the law applies to the media.

LAW 2117 Law of Contract 2

4 units - semester 2

36 hours

Prerequisite: LAW 1001

Assumed Knowledge: LAW 1002, LAW 1003

Assessment: to be advised

Note: this course is compulsory at Level I

The subject will concentrate on one or more of the following: Theories of contract. Good faith. Unconscionability. Standard Form contracts, relational contracts, contract and regulation, globalisation and contract.

LAW 2122 Criminology

4 units - semester 2

40 hours

Available for Non-Award Study

Prerequisite: LAW 1001

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

Prerequisite: LAW 1001

Assumed Knowledge: LAW 1002, LAW 1003

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 2008

20 hours

Prerequisite: LAW 1001, LAW 1002, LAW 1003

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 2008

2 hour research seminar per week

Prerequisite: LAW 1001

Assumed Knowledge: LAW 1002, LAW 1004

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, LAW 2002

Corequisite: LAW 3002

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 pre-trial 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, LAW 2001

Corequisite: LAW 3001

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, LAW 3001

Corequisite: LAW 3007

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

26 hours

Prerequisite: LAW 1001

Assumed Knowledge: LAW 2001, LAW 2002

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 2

40 hours

Prerequisite: LAW 1001

Assumed Knowledge: LAW 2003 - 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, LAW 3002

Corequisite: LAW 3003

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 and closing statements.

LAW 3010 **Alternative Dispute Resolution**

4 units - semester 2

40 hours

A quota will apply

Prerequisite: LAW 2002, LAW 3002

Corequisite: LAW 2002, LAW 3002

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 - not offered in 2008

Available for Non-Award Study

Quota will apply

Prerequisite: LAW 3003

Corequisite: LAW 3003

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 2008

40 hours

Prerequisite: LAW 1001

Corequisite: LAW 1001

Assumed Knowledge: LAW 2003, LAW 2002

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 2008

24 hours

Prerequisite: LAW 1001

Assumed Knowledge: LAW 2070

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 Comparative Equality & Anti-Discrimination Law 2

2 units - not offered in 2008

20 hours

Prerequisite: LAW 2003

Incompatible: Not to be counted with LAW 3024

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 2008

40 hours

Prerequisite: LAW 1001

Assumed Knowledge: LAW 3066 or LAW 1006

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

36 hours

Prerequisite: LAW 1001

Assumed Knowledge: LAW 1002, LAW 1003

Assessment: exam, part A - multiple choice questionnaire 30%, part B - essay questions 70% - 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 - not offered in 2008

2 hour research seminars & presentations

Available for Non-Award Study

Prerequisite: LAW 2059

Assessment: TBA

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 transnational 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 2008

20 hours

Prerequisite: LAW 1001

Assumed Knowledge: LAW 2003, LAW 1005

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 2008

40 hours

Available for Non-Award Study

Prerequisite: LAW 1001

Assumed Knowledge: LAW 2002, LAW 2003

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 - semester 2

30 hours

Prerequisite: LAW 2011

Incompatible: Law 2018, COMMLAW 3010

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 units - winter semester

24 hours

Prerequisite: LAW 1001

Assumed Knowledge: LAW 2002

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 3023

Jessup Moot

4 units - summer semester

40 hours

Restriction: by selection of the course coordinator

Maximum 5 students

Prerequisite: LAW , LAW 1002, LAW 1003

Assumed Knowledge: LAW 1006

Assessment: research & skills in oral & written presentation

Students are eligible for the subject by application and selection only. Participants in the Moot Court subject will be selected as members of one or more teams of 3-5 students. The teams will prepare material for presentation in moot court competitions to be held within the Law School or in state, national or international competition. One of the selected teams will participate in the Australian Regional Rounds of the Philip C Jessup International Moot Court Competition, and the international rounds, if it qualifies to do so. Participation in the Jessup Moot 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. The Moot Court Course has a unit loading of 4 units where 40 or more hours participation is required.

LAW 3024

Comparative Equality & Anti-Discrimination Law 4

4 units - not to be offered in 2008

40 hours

Prerequisite: LAW 2003

Incompatible: Not to be counted with LAW 3014

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 3025

Statutory Interpretation

4 units - semester 1

36 hours

Available for Non-Award Study

Prerequisite: LAW 1001

Assessment: participation 20%, 1500 word discussion paper & seminar presentation 30%, 3000 word research paper (5000 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 - semester 2

36 hours

Available for Non-Award Study

Prerequisite: LAW 1001

Assumed Knowledge: LAW 2003, LAW 2002

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 - semester 1

40 hours

Prerequisite: LAW 2004

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 3030

Accreditation for Mediators

2 units - semester 2

20 hours

Quota 18

Prerequisite: LAW 3010

Assessment: TBA

This workshop builds on theory explored in Alternative Dispute Resolution. Students will engage in simulated mediation exercises playing the role of parties and mediators. Students will have their performance as mediators formally assessed with written feedback. Associated sessions will include evaluation and critique of techniques in mediation and implications for justice access.

LAW 3044

Labour and Industrial Relations Law

4 units - semester 1

36 hours

Prerequisite: LAW 1001

Assumed Knowledge: LAW 2003, LAW 1003, LAW 1002

Assessment: to be advised

This course examines the law governing work as it has evolved in the global era of the new economy. It explores a range of regulatory mechanisms deployed in this area, including the development of international norms as well as Australian statute and common law, and new forms of 'soft' regulation. Topics covered include: the law of work in the global era; the development of the Australian law of work, both prior to and after Work Choices; the subject of the law of work, including the distinction between employees and independent contractors, and the nature of the 'firm'; the contract of employment, and common law rights and responsibilities at work; the safety net, including the Australian Fair Pay and Conditions Standard, awards, the role of the Australian Fair Pay Commission and the Australia Industrial Relations Commission; security at work, including dismissal law; equality at work, including discrimination law; freedom of association; workplace bargaining, and resolving conflicts at work under the law.

LAW 3047

Environmental Protection Law

4 units - not offered 2008

40 hours

Prerequisite: LAW 2070

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 3065

Land and Water Resources Law

4 units - not offered 2008

40 hours

Prerequisite: LAW 1001

Assumed Knowledge: LAW 2070

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, LAW 2001

Incompatible: not to be presented with LAW 1006

Assessment: To be Advised

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 3071

Conservation Law

4 units - not offered 2008

40 hours

Prerequisite: LAW 2070

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 - summer semester or semester 1 or 2

18 internal, approx. 80 placement hours

Restriction: By Selection Only

Quota 18

Prerequisite: LAW 1001, LAW 1002, LAW 1003, completion of 54 units of LLB - some placements will include Litigation Practice, 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 end of February.

LAW 3090

Planning and Heritage Law

4 units - not offered 2008

24 hours

Prerequisite: LAW 1001

Assumed Knowledge: LAW 2070

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 2008

40 Hours

Prerequisite: LAW 2004

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

Restriction: 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 identify 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 1 or 2

Restriction: approved honours Law students

Prerequisite: LAW 3089

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 4144
International Justice and the Rule of Law

4 units - not offered in 2008

36 hours

Available for Non-Award Study

Prerequisite: LAW 1001

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
Foundations of Linguistics

3 units - semester 1

3 contact hours 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 and basic skills in linguistic analysis. Foundations of Linguistics develops understandings of the various subsystems of language including phonology, morphology, syntax, semantics and the lexicon. It also investigates how languages are learned and how they change over time. 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

3 contact hours per week

Available for Non-Award Study

Assessment: research report, essay

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 the skills to analyse communicative behaviour.

LEVEL II

LING 2006 Language and Meaning

4 units - semester 1

3 contact hours per week

Prerequisite: 6 units Level I Humanities/Social Sciences

Incompatible: LING 3006

Assessment: 2 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 will explore how language is used to portray reality, how it is used to negotiate social roles and relationships - how it can be used to persuade, inform, outrage, entertain or annoy. Students are introduced to the analysis of spoken and written language using functional grammar and will apply this in investigating the language of a range of different text types, including casual conversation, newspaper articles, scientific reports, advertisements, political speeches and class room interactions.

LING 2009 Australian Indigenous Languages

4 units - semester 2

3 contact hours per week

Prerequisite: 6 units Level I Humanities/Social sciences

Incompatible: LING 3009

Assessment: 4 practical tasks 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 2011 Mass Communicative Discourses

4 units - semester 2

3 contact hours per week

Prerequisite: 6 units Level I Humanities/Social Sciences

Incompatible: LING 3011

Assessment: Short writing exercises, longer feature writing exercises &/or essay

This course is designed to simultaneously develop students' theoretical and practical understanding of the nature of mass communicative texts, how they are constructed, their rhetorical and ideological potential and the functions they serve in society. The course will equip

students to account, both descriptively and critically, for the verbal styles and textual organisations of mass media texts while developing their ability to construct such texts themselves.

The following topics will be covered: the historical evolution and current status of the news report; mass media objectivity - the nature and ideological consequences of 'impartial' language; popular persuasion and the mass media commentary; mobilising public opinion and the discourses of community activism; mass media popularisations - interpreting expert knowledge for a mass audience; words to image - pod casting and writing for video; and the art of the review - the cultural correspondent.

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

Incompatible: LING 3030

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 2034 Language Learning

4 units - semester 2

3 contact hours per week

Prerequisite: 6 units Level I Humanities and Social Sciences courses

Incompatible: LING 3034

Assessment: Small-scale negotiated investigations involving collection & analysis of data & written research report

In this course students study learning language as a social experience. Students apply practical skills for researching language learning. The course begins with a review of exciting, new research on child language acquisition - how children develop speech and literacy through their social relationships. The language environment in early childhood is absolutely critical for mature language development. We review local research on development and maintenance of bilingualism and multilingualism, including bringing up children bilingually in monolingual societies. An important topic is adult language learning and second language acquisition with implications for education. The controversial topic of literacy is

included as is the analysis of the development of the multiliteracies for living in the so-called information age. We look at learning specialist language- technical and academic discourses and the development of language for conducting practices with applications of new technologies such as T-rays. We study language learning problems such as dyslexia and language-based strategies for dealing with them.

LING 2035
Morphology & Syntax

4 units - semester 1
 3 contact hours per week
 Prerequisite: LING 1101
 Incompatible: LING 3035
 Assessment: practical assignments, exam

Morphology deals with the internal structure of words and their meaningful parts. Syntax is concerned with sentence structure - how words are combined together to form phrases, phrases combined together to form larger phrases, clauses and sentences, and how clauses are combined together to form complex sentences. Together, morphology and syntax comprise the core of the grammar of a language. Since grammar is no longer a major focus in schools, most students have little understanding of even the most basic notions such as being able to identify parts of speech, or understanding how large constructions are composed out of smaller units. Being able to identify constituents and agreement constraints will help students to improve and correct their academic writing.

The course will be practical in focus and will teach students essential skills for the linguistic description and analysis of a language. Along with Phonology, this course is essential for all linguistics students and language teachers (English or otherwise).

LEVEL III

LING 3006
Language and Meaning

6 units - semester 1
 3 contact hours per week
 Prerequisite: 8 units Level II Humanities/Social Sciences
 Incompatible: LING 2006
 Assessment: 2 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 will explore how language is used to portray reality, how it is used to negotiate social roles and relationships - how it can be used to persuade, inform, outrage, entertain or annoy. Students are introduced to the analysis of spoken and written language using functional grammar and will apply this in investigating the language of a range of different text types, including casual conversation, newspaper articles,

scientific reports, advertisements, political speeches and class room interactions.

LING 3009
Australian Indigenous Languages

6 units - semester 2
 3 contact hours per week
 Prerequisite: 8 units Level II Humanities/Social Sciences
 Incompatible: LING 2009
 Assessment: 4 practical tasks 10% each, 2500 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 3011
Mass Communicative Discourses

6 units - semester 2
 3 contact hours per week
 Prerequisite: 8 units Level II Humanities/Social Sciences
 Incompatible: LING 2011
 Assessment: Short writing exercises, longer feature writing exercises &/or essay

This course is designed to simultaneously develop students' theoretical and practical understanding of the nature of mass communicative texts, how they are constructed, their rhetorical and ideological potential and the functions they serve in society. The course will equip students to account, both descriptively and critically, for the verbal styles and textual organisations of mass media texts while developing their ability to construct such texts themselves.

The following topics will be covered: the historical evolution and current status of the news report; mass media objectivity - the nature and ideological consequences of 'impartial' language; popular persuasion and the mass media commentary; mobilising public opinion and the discourses of community activism - press releases, blogging and the online feature; mass media popularisations - interpreting expert knowledge for a mass audience; words to image - pod casting and writing for video; and the art of the review - the cultural correspondent.

LING 3030
Language and Communication Planning

6 units - semester 1
 3 hours per week
 Prerequisite: 8 units Level II Humanities/Social Sciences
 Incompatible: LING 2030
 Assessment: 2000 word essay, 1000 word chapter for 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 3034 Language Learning

6 units - semester 2

3 contact hours per week

Prerequisite: 8 units Level II Humanities and Social Sciences courses

Incompatible: LING 2034

Assessment: Small-scale negotiated investigations involving collection & analysis of data & written research report

In this course students study learning language as a social experience. Students apply practical skills for researching language learning. The course begins with a review of exciting, new research on child language acquisition - how children develop speech and literacy through their social relationships. The language environment in early childhood is absolutely critical for mature language development. We review local research on development and maintenance of bilingualism and multilingualism, including bringing up children bilingually in monolingual societies. An important topic is adult language learning and second language acquisition with implications for education. The controversial topic of literacy is included as is the analysis of the development of the multiliteracies for living in the so-called information age. We look at learning specialist language- technical and academic discourses and the development of language for conducting practices with applications of new technologies such as T-rays. We study language learning problems such as dyslexia and language-based strategies for dealing with them.

LING 3035 Morphology & Syntax

6 units - semester 1

3 contact hours per week

Prerequisite: LING 1101

Incompatible: LING 2035

Assessment: practical assignments, exam, morphological analysis

Morphology deals with the internal structure of words and their meaningful parts. Syntax is concerned with sentence structure - how words are combined together to form phrases, phrases combined together to form larger phrases, clauses and sentences, and how clauses are combined together to form complex sentences. Together,

morphology and syntax comprise the core of the grammar of a language. Since grammar is no longer a major focus in schools, most students have little understanding of even the most basic notions such as being able to identify parts of speech, or understanding how large constructions are composed out of smaller units. Being able to identify constituents and agreement constraints will help students to improve and correct their academic writing.

The course will be practical in focus and will teach students essential skills for the linguistic description and analysis of a language. Along with Phonology, this course is essential for all linguistics students and language teachers (English or otherwise).

HONOURS

LING 4401A/B 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 lecturers in Linguistics prior to commencing Level II to ensure appropriate course choices are made in preparation for Honours.

In some circumstances Honours Linguistics can be studied part-time over two years or be combined with Honours in another discipline.

Management

LEVEL II

COMMGMT 2007 Organisational Behaviour II

4 units - semester 2

2 lectures, 1 tutorial, 8 hours self-directed study per week

Available for Non-Award Study

Assumed Knowledge: one semester of university study

Assessment: exam, test, assignments, tutorial participation & contribution as determined at the preliminary lecture

This course draws on individual factors, group processes, and features of the organisational system 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, 8 hours self-directed study per week

Available for Non-Award Study

Assumed Knowledge: one semester of university study

Incompatible: not to be counted with COMMGMT 2008 or AGRIBUS 2016

Assessment: written exam not less than 50%; essays, tutorial participation & contribution as determined at preliminary 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, 8 hours self-directed study per week

Available for Non-Award Study

Assumed Knowledge: COMMGMT 2008

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, cross-cultural communication and negotiations, MNC strategies and structures, and international human resource management. 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, 8 hours self-directed study per week.

Available for Non-Award Study

Assumed Knowledge: all Level I & II courses in relevant degree

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, corporate social responsibility and environmental strategies.

COMMGMT 3014 Human Resource Management III

4 units - semester 1

2 lectures, 1 tutorial, 8 hours self-directed study per week

Available for Non-Award Study

Prerequisite: COMMGMT 2007 (at least 45%)

Assessment: written exam not less than 50%, assignments as determined at preliminary 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.

COMMGMT 3015 Organisational Dynamics III

4 units - semester 2

2 lectures, 1 tutorial per week

Available for Non-Award Study

Prerequisite: COMMGMT 2008

Assessment: exam, assignments as determined at first lecture

Organisational Dynamics aims to assist future managers to negotiate the complexities in today's rapidly changing environments so as to optimise their organisations activities toward successful outcomes. This course explores organisational change and dynamics with particular emphasis on the three fundamental influences on modern-day organisations - knowledge, innovation and technology. Managing the confluence of knowledge, innovations and technologies to maximize the organisation's performance requires a comprehensive

understanding of the organisation as a system of inter-related parts where synergies, confounding forces and external dynamics are part of the daily management process. This course will introduce the student to the fundamental principles of organisational theory as they contribute to the interpretation and analysis of organisational change and dynamics. It will further facilitate understanding of organisational dynamics in relation to other areas of management including organisational behaviour, human resource management, international business and strategic management. This course requires a high level of English proficiency to enable students to engage in class simulations of organisational activities in class which require presentations, negotiations and reports.

Marketing

LEVEL II

MARKETNG 2009 **Marketing II**

4 units - semester 1

2 lectures, 1 tutorial, 8 hours self-directed study per week

Available for Non-Award Study

Prerequisite: successful completion of 1 semester of university study

Incompatible: not to be counted with MARKETNG 2009 or WINEMKTG 1013

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 organisational functions. It will include topics such as environmental analysis, industry and competitor analysis, objective setting, marketing strategies, marketing mix components, implementation and control mechanisms as well as ethics. 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, 8 hours self-directed study per week

Available for Non-Award Study

Assumed Knowledge: MARKETNG 2009

Incompatible: not to be counted with MARKETNG 3013 or WINEMKTG 2033

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, 8 hours self-directed study per week

Available for Non-Award Study

Prerequisite: MARKETNG 2009

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, 8 hours self-directed study per week

Available for Non-Award Study

Prerequisite: MARKETNG 2009

Assumed Knowledge: MARKETNG 2011

Incompatible: not to be counted with WINEMKTG 2014

Assessment: group work on case studies, major project, final exam

International marketing is a rapidly growing area within the disciplines of marketing and international business. Central to international marketing is the response of international rather than domestic buyers in the marketing environment, the types of decisions that are most feasible and the information required in decision making. During this course, the student will gain insights into the pressures created by the international economic, political, legal and cultural environmental influences on marketing planning. This course will enable students to learn analytical skills required to develop international marketing plans and develop the marketing mix elements in the international environment. International marketing is one of five subjects in the marketing discipline and extends the knowledge developed in marketing management into the international rather than the domestic market. The major theories include, pathways of internationalisation, political and economic risk analysis, international strategic planning, cultural distance, product development and branding for international markets, international market entry, distribution strategies and the structure of international organisations. The conceptual material developed during this course will be implemented through class exercises, case studies and a major project.

MARKETNG 3017 Market Research and Project III

4 units - semester 2

2 lectures, 1 tutorial, 8 hours self-directed study per week

Available for Non-Award Study

Prerequisite: MARKETNG 2009

Assumed Knowledge: MARKETNG 2011

Incompatible: not to be counted with MARKETNG 3012 or WINEMKTG 2011

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

54 hours lectures, computer practicals

Available for Non-Award Study

Prerequisite: SACE Stage 2 Mathematical Studies or equiv.

Incompatible: cannot be counted together with COMP SCI 1004, CHEM ENG 1002 or APP MTH 2005

Assessment: computing assignments 30%, final exam 70%

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 per week using mathematical package Matlab

Available for Non-Award Study

Assumed Knowledge: SACE Stage 2 Mathematical Studies

Incompatible: cannot be counted with PURE MTH 1004

Assessment: 3 hour exam, percentage based on weekly assignments, 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. It 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 1

4 lectures, 1 tutorial per week, number of computer practicals using mathematical package Matlab

Restriction: not available to students in B.Ma.& Comp.Sc. or B Comp Sci

Available for Non-Award Study

Incompatible: cannot be presented with ECON 1005, MATHS 1011/1012, MATHS 1013/1014

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, exponential, 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, number of computer practicals using mathematical package Matlab

Restriction: not available to students in B.Ma.& Comp.Sc. or B Comp Sci

Available for Non-Award Study

Prerequisite: MATHS 1009

Incompatible: cannot be presented with MATHS 1011/1012 or MATHS 1013/1014

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 Math.Studies & Specialist Maths or MATHS 1013 (Pass)

Incompatible: may not be presented with MATHS 1001 or MATHS 1000A/B or MATHS 1007A/B or MATHS 1014

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 or semester 1 or 2

4 lectures, 1 tutorial per week, number of computer practicals using mathematical package Matlab

Available for Non-Award Study

Prerequisite: MATHS 1011 (Pass)

Incompatible: may not be presented with MATHS 1007A/B or MATHS 2004

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 per week, computer practicals using mathematical package Matlab

Available for Non-Award Study

Prerequisite: SACE Stage 2 Mathematical Studies

Incompatible: not available to students with combined (subject achievement) score of 35 for SACE Stage 2 Math. Studies & Specialist Maths (or equiv), may not be presented with MATHS 1001 or MATHS 1000A/B or MATHS 1007A/B

Assessment: 3 hour exam, small percentage allocated to weekly assignments, tests

This course provides the necessary additional mathematics to prepare students for MATHS 1011 Mathematics IA. This course contains an introduction to 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.

LEVEL II

APP MTH 2000 Differential Equations and Fourier Series

2 units - semester 1

30 hours lectures, tutorials

Available for Non-Award Study

Prerequisite: Pass in MATHS 1012 or MATHS 2004, or corequisite MATHS 2004

Incompatible: may not be presented with APP MTH 2007 or APP MTH 2010

Assessment: written & computing assignments 15%, final exam 85%

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

30 hours lectures, tutorials

Available for Non-Award Study

Prerequisite: Pass in MATHS 1012 or MATHS 2004, or corequisite MATHS 2004

Assumed Knowledge: concurrent/prior enrolment in APP MTH 2000 or prior enrolment in APP MTH 2007

Incompatible: cannot be presented with APP MTH 2006

Assessment: written & computing assignments 15%, final exam 85%

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
 30 hours lectures, tutorials
 Available for Non-Award Study
 Prerequisite: Pass in MATHS 1012 or MATHS 2004
 Assumed Knowledge: APP MTH 2000 or APP MTH 2007
 Assessment: written & computing assignments 15%, final exam 85%

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
 30 hours lectures, tutorials
 Restriction: not available to B.Ma.& Comp.Sc.or B.Comp.Sc.students
 Available for Non-Award Study
 Prerequisite: Pass in MATHS 1012 or MATHS 2004
 Assumed Knowledge: APP MTH 2000 or APP MTH 2007
 Incompatible: may not be presented together with APP MTH 2009 Numerical Analysis and Probability and Statistics
 Assessment: written and computing assignments 20%, final exam 80%

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
 54 hours lectures, computer practicals
 Restriction: not available to B.Comp.Sc. or B.Ma.& Comp. Sc.students
 Available for Non-Award Study
 Prerequisite: SACE Stage 2 Mathematical Studies or equiv.
 Assumed Knowledge: knowledge of spreadsheets, as from STATS 1000 or ECON 1008
 Incompatible: may not be counted with APP MTH 1000 or COMP SCI 1004 or CHEM ENG 1002
 Assessment: computing assignments 30%, final exam 70%

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; optimisation 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) ANSI 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
 30 hours lectures, tutorial
 Available for Non-Award Study
 Prerequisite: Pass in MATHS 1012 or MATHS 2004
 Assessment: written & computing assignments 10%, final exam 90%

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
 30 hours lectures, tutorials, practicals
 Restriction: not available to B.Comp.Sci or B.Ma.&Comp.Sc. students
 Available for Non-Award Study
 Prerequisite: PASS IN MATHS 1012 or MATHS 2004
 Assumed Knowledge: APP MTH 2000
 Incompatible: may not be presented together with STATS 2004, STATS 2001, APP MTH 2004, or APP MTH 2010
 Assessment: written and computing assignments 15%, final exam 85%

Numerical analysis: numerical solution of ordinary and partial differential equations. Basic probability, 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

40 hours lectures, tutorials, practicals

Restriction: not available to B.Comp.Sc. or B.Ma.& Comp.Sc. students

Available for Non-Award Study

Prerequisite: Pass in MATHS 1012 or MATHS 2004

or corequisite MATHS 2004

Incompatible: may not be presented together with APP MTH 2007, APP MTH 2000, STATS 2001, STATS 2004 or APP MTH 2009

Assessment: written and computing assignment 15%, final exam 85%

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 or 2

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 1011, MATHS 1013 (Pass)

Incompatible: cannot be counted with MATHS 1012 - see Academic Program Rules for constraints on this course within B.Ma.& Comp. Sc/B.Comp.Sc.

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 IA and Mathematics IMA, emphasising their inter-relationships and applications to the sciences and financial areas and continues to develop problem solving skills in mathematics. Calculus: Applications of the derivative; functions of two variables; Taylor series; differential equations, techniques of integration. Algebra: The real vector space, eigenvalues and eigenvectors, linear transformations 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: Pass in MATHS 1012 or MATHS 1008

Corequisite: MATHS 2004

Assessment: 2 hour exam; small percentage may be allocated for class exercises and/or tutorials

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 2002

Algebra II

2 units - semester 2

2 lectures per week, 1 tutorial per fortnight

Available for Non-Award Study

Prerequisite: Pass in MATHS 1012 or MATHS 2004

Assessment: 2 hour exam; small percentage may be allocated for class exercises and/or tutorials

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 2003

Real Analysis II

2 units - semester 2

2 lectures per week, 1 tutorial per fortnight

Available for Non-Award Study

Prerequisite: Pass in MATHS 1012 or MATHS 2004

Incompatible: cannot be counted with Real Analysis II (pre 2001) or PURE MTH 3017

Assessment: 2 hour exam; small percentage may be allocated for class exercises and/or tutorials

The real numbers, infimum and supremum. Sequences: convergence, limit properties, subsequences, conditions for convergence. Series: tests for convergence. Continuous functions: Key properties, uniform continuity, existence of the Riemann integral. Differentiation: mean value theorems, l'Hopital's rules, Taylor polynomials. Power series and Taylor series.

Convergence of sequences and series of functions. Fourier series.

PURE MTH 2005

Multivariable Calculus II

2 units - semester 1

2 lectures per week, 1 tutorial per fortnight

Available for Non-Award Study

Prerequisite: Pass in MATHS 1012 or MATHS 2004

Corequisite: MATHS 2004

Incompatible: cannot be counted with Real Analysis II passed before 2002, except under special arrangement with the Head of Discipline

Assessment: 2 hour exam; small percentage may be allocated for class exercises and/or tutorials

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. Line integrals, differential

1-forms; double and multiple integrals; surface integrals; Green's theorem; the Divergence theorem; Stokes Theorem.

LEVEL III

APP MTH 3000 Computational Mathematics III

3 units - semester 1

36 hours lectures, tutorials

Available for Non-Award Study

Prerequisite: Pass in MATHS 1012 or MATHS 2004

Assumed Knowledge: APP MTH 2007 or APP MTH 2000 & computer programming language such as Matlab, Fortran or C

Assessment: written and computing assignments 20%, final exam 80%

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

36 hours lectures, tutorials

Available for Non-Award Study

Prerequisite: Pass in MATHS 1012 or MATHS 2004

Assumed Knowledge: knowledge of Markov Chains as in APP MTH 2008

Assessment: written assignments 10%, final exam 90%

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

36 hours lectures, tutorials

Available for Non-Award Study

Prerequisite: Pass in MATHS 1012 or MATHS 2004

Assumed Knowledge: APP MTH 2000 or APP MTH 2007; APP MTH 2002 or APP MTH 2006

Assessment: written assignment 10%, final exam 90%

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 2008

36 hours lectures, tutorials

Available for Non-Award Study

Prerequisite: Pass in MATHS 1012 or MATHS 1014 &/or MATHS 1011; Pass in at least one of: STATS 1000/ECON 1008, 9134, MATHS 1008, STATS 2004, APP MTH 2009, STATS 2001 or APP MTH 2010

Assumed Knowledge: MATHS 3014 or CORPFIN 2006 or ECON 2008

Assessment: written assignments 10%, final exam 90%

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 - semester 2

36 hours lecture and tutorials

Available for Non-Award Study

Prerequisite: Pass in MATHS 1012 or MATHS 2004

Assumed Knowledge: APP MTH 2000

Assessment: written assignments 10%, final exam 90%

Science and Technology was the driver for many of the developments in Applied Mathematics in the 20th century. In the 21st century much of Applied Mathematics will be driven by, and contribute to, applications in the areas of biomedical science and biology. The subject Mathematical Biology will introduce students to the fascinating world of modelling biological systems. The focus will be less on developing mathematical versatility rather than how to develop (and interpret) good biological models. No previous exposure to biology is necessary.

APP MTH 3005 Mathematical Programming III

3 units - not offered in 2008

36 hours lectures, tutorials

Available for Non-Award Study

Prerequisite: Pass in MATHS 1012 or MATHS 2004

Assumed Knowledge: knowledge of duality theory as in APP MTH 2008

Assessment: written & computing assignments 10%, final exam 90%

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 - Not offered in 2008

36 hours lectures, tutorials

Available for Non-Award Study

Prerequisite: Pass in MATHS 1012 or MATHS 2004

Assumed Knowledge: APP MTH 2007, APP MTH 2000 or APP MTH 2010

Assessment: written assignment 10%, project work 5%, final exam 85%

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. 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.

In the context of such energy and mass transport problems from industry, 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

30 hours lectures, tutorial, computing practicals

Restriction: not available to B.Ma.& Comp.Sc. or B.Comp.Sc. students

Available for Non-Award Study

Prerequisite: Pass in MATHS 1012 or MATHS 2004

Assumed Knowledge: APP MTH 2000, APP MTH 2002, APP MTH 2009

Assessment: written & computing assignments 15%, final exam 85%

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 - semester 2

36 hours lectures, tutorials

Available for Non-Award Study

Prerequisite: Pass in MATHS 1012 or MATHS 2004

Assumed Knowledge: APP MTH 2000 or APP MTH 2007

Assessment: written & computing assignments 15%, final exam 85%

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

36 hours lectures, tutorials

Restriction: not available to B.Ma.& Comp.Sc./B.Comp.Sc. students

Available for Non-Award Study

Prerequisite: MATHS 1012 or MATHS 1011

Assumed Knowledge: Familiarity with excel spreadsheets; finance as in FINANCE 1000

Incompatible: cannot be counted together with APP MTH 3012

Assessment: written & computing assignments 15%, final exam 85%

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
 36 hours lectures, tutorials
 Available for Non-Award Study
 Prerequisite: Pass in MATHS 1012 or MATHS 2004
 Assumed Knowledge: familiarity with Excel spreadsheets
 Incompatible: cannot be counted with APP MTH 3011
 Assessment: written & computing assignments 20%, final exam 80%

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
 36 hours lectures, tutorials
 Available for Non-Award Study
 Prerequisite: Pass in MATHS 1012 or MATHS 2004
 Assumed Knowledge: APP MTH 2000 or APP MTH 2007 or APP MTH 2010
 Assessment: written assignments 10%, final exam 90%

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
 36 hours lectures, tutorials
 Available for Non-Award Study
 Prerequisite: Pass in MATHS 1012 or MATHS 2004
 Assumed Knowledge: some knowledge of linear programming as in APP MATH 2008
 Assessment: written and computing assignments 15%, final exam 85%

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 Annealing 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
 36 hours lectures, tutorials
 Available for Non-Award Study
 Prerequisite: Pass in MATHS 1012 or MATHS 2004
 Assumed Knowledge: Basic probability as in APP MTH 2008, STATS 2002 or STATS 2004
 Incompatible: may not be presented with APP MTH 3015
 Assessment: written assignments and project work 20%, final exam 80%

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 sophisticated models of telecommunication systems.

**APP MTH 3017
Waves III**

3 units - semester 1
 36 hours lectures, tutorials
 Available for Non-Award Study
 Prerequisite: Pass in MATHS 1012 or MATHS 2004
 Assumed Knowledge: APP MTH 2000
 Assessment: written and computing assignments 15%, final exam 85%

The wave equation, waves on stretched strings and membranes, waves on beams, electromagnetic waves, sound waves, waves in fluids, standing/progressive waves, dispersion relations, transmission and reflection of waves at interfaces. Nonlinear waves.

APP MTH 3018 Mathematics of Finance III

3 units - Not offered in 2008

36 hours lectures and tutorials

Prerequisite: MATHS 1012 or MATHS 2004

Assessment: Written & computing assignments 10%, final exam 90%

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

3 units - semester 1

12 lectures/tutorials, 24 workshops

Available for Non-Award Study

Prerequisite: MATHS 1012 or Passes in MATHS 2004 or COMP SCI 1009

Incompatible: cannot be counted with CHEM ENG 3004, C&ENVEG 3000, ELEC ENG 3012, MECH ENG 3006, 9007

Assessment: written & 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, ethics and professional practice, meeting skills, interviews and job application processes.

PURE MTH 3002 Topology and Analysis III

3 units - semester 1

5 lectures, 1 tutorial per fortnight

Available for Non-Award Study

Prerequisite: Pass in MATHS 1012 or MATHS 2004

Incompatible: cannot be counted with Analysis & Topology III

Assessment: 3 hour exam, small percentage may be allocated for 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

3 units - semester 1

5 lectures, 1 tutorial per fortnight

Available for Non-Award Study

Prerequisite: MATHS 1012 or MATHS 2004

Assessment: 3 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

3 units - not offered in 2008

2 lectures per week, 1 tutorial, 1 computer practical per fortnight

Available for Non-Award Study

Prerequisite: Pass in MATHS 1012 or MATHS 2004

Assessment: 3 hour exam, small percentage may be allocated for class exercises and/or tutorials and computer practicals

A survey of fractal geometry including classical fractals, fractal dimension, encoding imagery modelling nature, chaos. Feigenbaum diagram, Mandelbrot and Julia sets. Students have the opportunity to construct their own fractals.

PURE MTH 3007 Groups and Rings III

3 units - semester 1

5 lectures, 1 tutorial per fortnight

Available for Non-Award Study

Prerequisite: Pass in MATHS 1012 or MATHS 2004

Assumed Knowledge: PURE MTH 2002

Incompatible: cannot be counted with either Groups III or Rings, Fields and Matrices III

Assessment: 3 hour exam; small percentage may be allocated for 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 - semester 2

5 lectures, 1 tutorial per fortnight

Available for Non-Award Study

Prerequisite: Pass in MATHS 1012 or MATHS 2004

Assumed Knowledge: PURE MTH 2003, PURE MTH 3002 or PURE MTH 3017

Assessment: 3 hour exam; small percentage may be allocated

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. L^p spaces, Banach spaces and Hilbert spaces; Riesz representation theorem. Applications to probability.

PURE MTH 3012 Fields and Geometry III

3 units - semester 2

5 lectures, 1 tutorial per fortnight

Available for Non-Award Study

Prerequisite: Pass in MATHS 1012 or MATHS 2004

Assumed Knowledge: PURE MTH 2002

Incompatible: cannot be counted with Projective Geometry III

Assessment: 3 hour exam, small percentage may be allocated for 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 3018 Coding and Cryptology III

3 units - semester 2

5 lectures, 1 tutorial per fortnight

Available for Non-Award Study

Prerequisite: Pass in MATHS 1012 or MATHS 2004

Assumed Knowledge: Students who have not completed either PURE MTH 2000 or PURE MTH 2002 should see the Pure Mathematics Head of Discipline

Incompatible: cannot be counted with PURE MTH 3006

Assessment: 3 hour exam, small percentage may be allocated 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.

PURE MTH 3019 Complex Analysis III

3 units - semester 2

5 lectures, 1 tutorial per fortnight

Available for Non-Award Study

Prerequisite: Pass in MATHS 1012 or MATHS 2004

Incompatible: 2959, PURE MTH 2001

Assessment: 3 hour exam, small percentage may be allocated for class exercises and/or tutorials

Basic concepts, holomorphic functions, Cauchy-Riemann equations. Standard elementary functions. Complex power series. Cauchy's integral theorem and consequences, including integral formula and power series representations. Residue theorem and applications. Conformal mapping and applications. Further results on holomorphic functions.

LEVEL IV

APP MTH 4003 Aerodynamics

2 units - semester 2

30 hours lectures, tutorials

Available for Non-Award Study

Prerequisite: Pass in MATHS 1012 or MATHS 2004

Assumed Knowledge: fluid mechanics such as in APP MTH 3002, APP MTH 2002 or APP MTH 2006, & computer programming language (Matlab, Fortran or C)

Assessment: written & computing assignments 15%, final exam 85%

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

30 hours lectures, tutorials

Available for Non-Award Study

Prerequisite: MATHS 1012 or MATHS 2004

Assumed Knowledge: Level II Applied Mathematics courses with aggregate value of 6 units

Assessment: Written and computing assignments 40%, final exam 60%

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 transport, manufacturing and telecommunications will be investigated.

APP MTH 4007 Computational Fluid Dynamics (Engineering)

2 units - semester 1

30 hours lectures, tutorials

Available for Non-Award Study

Prerequisite: Pass in MATHS 1012 or MATHS 2004

Assumed Knowledge: Numerical Analysis or Numerical Methods and Fluid Mechanics

Assessment: written and computing assignments 40%, final exam 60%

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

30 hours lectures, tutorials

Available for Non-Award Study

Prerequisite: Pass in MATHS 1012 or MATHS 2004

Assumed Knowledge: basic concepts of nonlinear and discrete optimisation, as in APP MTH 2008, APP MTH 3014 or APP MTH 3005

Assessment: written assignments 10%, final exam 90%

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 - Not offered in 2008

30 hours lectures, tutorials

Available for Non-Award Study

Prerequisite: Pass in MATHS 1012 or MATHS 2004

Assessment: written and computing assignments 30%, final exam 70%

Traffic modelling is a popular area of current research due to the rapid rise of the Internet, and the discovery of interesting properties such as self-similarity in this traffic, the implications of which are still being discovered. This area has a long history of practical application in the telecommunications industry and is just as important today through application to Internet systems. Areas of application include: Network planning and optimisation, Traffic engineering, Protocol design, Network post-mortems, Network anomaly detection: which requires the ability to estimate traffic parameters and detect deviations from normal behaviour.

The course's content is geared towards the applications of traffic analysis, some of which are listed above. The course's specific content includes: basic packet network modelling, with the concept of stochastic modelling of queues; block-matrix methods for modelling, and analysis; traffic parameter estimation; structural (flow-based) modelling of traffic (On/Off models, M/G/infinity models); traffic self-similarity, long-range dependence, and heavy-tailed distributions; and dynamic modelling of congestion controls, in particular TCP. Additional topics focus on the issues of real Internet measurements, such as inference techniques required to obtain information such as traffic matrices from the available link measurements.

APP MTH 4043 Transform Methods and Signal Processing

2 units - semester 2

30 hours lectures, tutorials

Available for Non-Award Study

Prerequisite: 6 units of Level II Applied Mathematics courses

Assessment: written and computing assignments 40%, final exam 60%

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 the use of wavelet transforms for signal analysis.

APP MTH 4044 Game Theory

2 units - not offered in 2008

30 hours lectures and tutorials

Prerequisite: Pass in MATHS 1012 or MATHS 2004

Assessment: written assignments 10%, final exam 90%

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.

APP MTH 4045 Stochastic Analysis & Application

2 units - not offered in 2008

Available for Non-Award Study

Prerequisite: MATHS 1012 or MATHS 2004

Assessment: written assignments 10%, final exam 90%

MATHS 4003 Industry Practicum (Maths. & Comp. Sc.)

2 units - semester 1 or 2

Restriction: students 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 A/B **Honours Applied Mathematics & Computer Science**

24 units – full year

Available for Non-Award Study

Prerequisite: Level III Applied Maths courses (at least 8 units value) at a good pass standard or better - different backgrounds may be accepted at discretion of Head of Discipline

Assessment: each course at end of semester in which it is offered, project, seminar

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 4015A/B **Honours Applied Mathematics**

24 units – full year

Available for Non-Award Study

Prerequisite: Level III Applied Maths courses (at least 8 units) at a good pass standard or better - different backgrounds may be accepted at discretion of Head of Discipline

Assessment: exams for each course at end of semester in which it is offered, project, seminar

Students should consult the Head of Applied Mathematics preferably before enrolling for Level III - Students are required to obtain the approval of Head of Applied Maths before enrolling. Candidates may apply to the Head for permission, under certain circumstances, to take Honours over two years.

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 Head of Applied Mathematics. Students may be allowed to take appropriate Level III Applied Mathematics courses not already taken.

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 4017A/B **Honours Applied Mathematics & Statistics**

24 units – full year

Available for Non-Award Study

Prerequisite: Level III Applied Maths and Statistics courses (at least 8 units value from both disciplines) at a good pass standard or better - different backgrounds may be accepted at discretion of Head of Discipline

Assessment: exams for each course at end of semester in which it is offered, project, seminar

Prospective students should consult Heads of Applied Mathematics and Statistics early in the year to obtain advice as to specific course content. 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.

MATHS 4000A/B **Honours Mathematical Sciences**

24 units - full year

Prerequisite: At least 10 units from Level III Applied Maths, Pure Maths & Statistics courses at credit standard or better - students with different prerequisites should contact 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)

Students considering this course are advised to see Heads of Applied Mathematics, Pure Mathematics or Statistics as soon as possible, preferably no later than the end of the year preceding their enrolment - students required approval of the Head of School of Mathematics before enrolling

This course is suitable for students who do not have a major in any of the disciplines of Applied Mathematics, Pure Mathematics and Statistics.

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, Mathematical Physics and Statistics at the University of Adelaide, University of South Australia and such other departments 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 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 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 4001A/B **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 requirement. 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 courses.

PURE MTH 4002A/B **Honours Mathematical Physics & Pure Mathematics**

12 units - semester 1 or 2

24 units - full year

Please contact the School for further information

PURE MTH 4003A/B

Hons Pure & Applied Maths

24 units - full year

Students considering taking this course are advised to see the Head of Discipline as soon as possible, preferably no later than the end of the year preceding enrolment.

PURE MTH 4004A/B **Honours Computer Science & Pure Mathematics**

24 units - full year

Prerequisite: (a) at least 10 units Level III Pure Maths courses (b) at least one of PURE MTH 3007 & PURE MTH 3012 (c) at least one of PURE MTH 3002 & PURE MTH 3009 or (d) degree or major in Comp.Sc.

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 Computer Science and Pure Mathematics for further information.

PURE MTH 4005A/B **Honours Pure Mathematics**

24 units - full year

Prerequisite: (a) At least 10 units of Level III Pure Maths at Credit average or better; (b) at least one of PURE MTH 3007 or PURE MTH 3012, (c) at least one of PURE MTH 3017, PURE MTH 3002 or PURE MTH 3009

Assessment: 3 hour semester exams (unless other arrangements notified), project also contributes to the final result.

Students with a different Level III background to that stipulated may be accepted at the discretion of the Head of Discipline.

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 4998A/B **Honours Philosophy & Pure Mathematics**

24 units - full year

Please contact the School for further information.

Media

LEVEL I

MDIA 1002 **Introduction to Media: Digital Revolutions**

3 units - semester 1

3 contact hours per week

Assessment: diagnostic exercise 10%, research question 10%, presentation 20%, annotated bibliography 30%, final assignment 30%

Why is digital media being seen as creatively, socially and politically transformative? What is 'collective intelligence' and how is it empowered by digital tools? How are 'amateur' media makers impacting on mainstream media practices? This course provides answers to the important questions being asked about new digital technologies and encourages creative experimentation with freeware, and critical, reflexive participation in social media sites. It explores the links between earlier communication forms and media institutions, and contemporary digital and mobile technologies. Methods of media analysis are introduced, as are selected theories and debates about media's historical role in shaping social, cultural, economic, and political relations. A digital imaging task is included.

MDIA 1004 **Broadcast: Television & Radio**

3 units - semester 2

3 contact hours per week

Restriction: B Media students only

Assessment: first assignment 10%, creative assessment option/policy assessment option 25%, essay assignment 40%, research assignment 25%

This course examines the history and contemporary forms of broadcast television and radio, and develops an understanding of the impact of digitisation, which students gained in the introductory media course, Digital Revolutions. It compares public, commercial, and community models of broadcast media organisations, ownership and the range of audiences, styles, formats and the content typical of each institution. National broadcast regulation and policy-making is considered in relation to the forming or sustaining of communities. The course considers the production, reception and distribution of broadcast content, nationally, and globally with reference to format trade. Cable, TiVo, MTV and JTV are discussed. Celebrity-based programming and genre traditions, such as reality television, live radio talkback, news, documentary, sitcom, sports, drama and games are studied as ways of understanding the mobilisation of audience share, content flows, and revenue. The impacts of program download from the internet and to mobile phones and iPods are assessed. Students may take a practical option- writing for a television or radio genre- as part of their assessment.

MDIA 1005

Critical Histories of the Image

3 units - semester 1

3 contact hours per week

Restriction: B Media students only

Assessment: class participation 10%, 750 word image analysis exercise 20%, 1250 word research assignment 30%, 2000 word essay assignment 40%

This course examines the history of media forms responsible for producing and transforming predominant images of reality. Graphical traditions, print media, photography and cinema will be the media practices upon which the course will focus. Historical and conceptual perspectives are used to examine the innovations in technologies of representation from the 19th century into the 20th century, the period of modernisation in Western culture and society. The adoption of these representational practices transformed understandings of reality and the everyday. We will look at the impact of modernist culture and artistic responses to the new technologies of photographic, cinematic and related image production in documentary, photojournalism and other representational media. Connections to contemporary understandings and questionings of mainstream media's power to represent the real will be made.

MDIA 1006

Story/Technology: Writing Techniques

3 units - semester 2

3 contact hours per week

Restriction: B Media students only

Assessment: tutorial presentation 25%, script development exercise 25%, digital story draft 20%, final submission of digital story 30%

This course looks at the development and uses of digital stories. Digital story has become an avenue of expression leading to new forms of social networking

and a means through which story is re-made for different media. The course examines techniques of writing for a range of media which will lead to the development and production of materials by students. The capacity for digital storytelling has developed through the availability of convergent communication technologies. The availabilities of these technologies has meant that new skills and techniques of writing are necessary which fit with computer screen technologies and other parameters of these new media forms. The subject will cover the relatively short history of this new field of media production linking it to older forms of story-telling in terms of connection to comparative and indigenous precursors and uses. The course will cover an analysis of the 'new prosumer' as an autonomous media producer and the development of a computer mediated aesthetics. Theories of narrative form, subjectivity and identity will form part of the course with an examination of forms of collective and political engagement that develop out of digital story. New mainstream genres which grow out of older forms such as the diary or the journal will be discussed. The course has a practical component which will encourage the production of new forms of narrative through exercises and the use of these techniques.

LEVEL II

MDIA 2202

Media Policy and Media Law

4 units - semester 1

3 contact hours per week

Restriction: B.Media students only

Prerequisite: MDIA 1002, at least one other compulsory Level I Media course

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 contact hours per week

Restriction: B.Media students only

Quota applies

Prerequisite: MDIA 1002, at least one other compulsory Level I Media course

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
Restriction: B.Media students only
Prerequisite: MDIA 1002, 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 and its evaluation. Students will be exposed to different theoretical paradigms of media research, analysis of competing frameworks for defining the media as object of study, and to debate on issues such as 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, execution and presentation.

MDIA 2205 Multimedia Production A

4 units - semester 2
4 contact hours per week
Restriction: B.Media students only
Quota applies
Prerequisite: MDIA 1002, ENGL 1105, SOCI 1002
Assessment: eight small projects equal weighting 80%, journal 10%, website portfolio 10%

Digital technology has developed at such a rate that much hardware and software quickly becomes obsolete. We can understand what multimedia is by making it. Digital technology's greatest asset is its ability to enable new creativity. Multimedia production extends traditional media such as TV and Radio by introducing interactive media where consumer also produces. While both difficult to create and use, multimedia production is also liberating in the ways and audiences it serves. This course provides a foundation in these areas that will be built upon in the advanced Multimedia Production B course that follows.

MDIA 2206 Video Production A

4 units - semester 2
4 contact hours per week
Restriction: B.Media students only
Quota applies
Prerequisite: MDIA 1002, ENGL 1105, SOCI 1002
Assessment: four projects with equal weighting 80%, journal 10%, website portfolio 10%

Video production has its origins in film production. The processes involved are similar. Where video differs, however, is in the greater flexibility it offers in control, ease of editing, and portability. This means more people have access to the tools necessary to produce video material for their own interests and to share with others. This reflects the movement towards consumers as also producers of new media in general. Video production requires all the skills of a film production and more. It also requires computer skills for editing and special effects. Possible film genres have also been expanded by video to include machinima, mixed media, and computer animation. Yet the core skills of constructing a storyline, scripting, storyboarding, and camera control remain. This course provides a foundation in these areas that will be built upon in the advanced Video Production B course that follows.

MDIA 2207 Global Media: Policies & Practices

4 units - semester 2
3 contact hours per week
Restriction: B Media students only
Prerequisite: MDIA 1002, one other compulsory Level I Media course
Assessment: active participation in workshops 10%, essay assignment 45%, case study report 45%

This course examines the social and cultural institutions through which production, distribution and consumption of media are organised around the world. It pays particular attention to the working of commercial markets, public institutions (both governmental and non-governmental), and civil society organisations that influence these different aspects of our uses of media. The course focuses on political, economic and sociological characteristics of media institutions and explores how these important aspects of media influence content and innovation in information and communication technologies. The examination of debates about the normative characteristics of media is an important part of the course with particular attention paid to how these debates are reflected in the development of governments' policies on media regulation, censorship and trade. The course explores how researchers integrate an understanding of macro and micro-levels of social action into their work through the use of theories that incorporate analyses of institutional structures and individuals' agency. The more abstract, analytical concerns of the course are consistently examined through the use of concrete examples of the people, policies, practices and places that together make up the global media of the 21st century.

MDIA 3205 Multimedia Production B

6 units - semester 1

3 contact hours per week

Restriction: B Media students only

Prerequisite: MDIA 2205

Assessment: four projects with equal weighting 80%, client brief 5%, design document 30%, report 10%, journal 5%, DVD portfolio 5%

Building on Multimedia Production A, this course extends the foundation skills gained in that course in a studio-based learning environment where major real-world project scenarios are undertaken. Commercial multimedia production in the genres: interactive media, image, games, and DVD production, involves satisfying client needs, commercial reporting, and budgetary requirements. In this course each aspect of the production process is covered for these genres in a real-world project scenario.

MDIA 3206 Video Production B

6 units - semester 1

4 contact hours per week

Restriction: B.Media students only

Prerequisite: MDIA 2206

Assessment: four projects with equal weighting 40%, client brief 5%, script 30%, report 10%, journal 5%, DVD portfolio 10%

Building on Video Production A, this course extends the foundation skills gained in that course in a studio-based learning environment where major real-world project scenarios are undertaken. As in film production, video production involves satisfying client needs, script writing commercial reporting, and budgetary requirements. In this course each aspect of the production process is covered in a real-world project scenario. Genres covered include documentary, drama, animation, and music videos.

MDIA 3301 Professional Practice

6 units - semester 2

3 contact hours per week

Restriction: B.Media students only

Prerequisite: 2 Level II Media core courses

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 prepares students for diverse fields of media work. It develops flexibly and dynamically in response to the student skills' audit which is completed at the start of semester. It introduces students to the expectations of a range of employers, by drawing on guest lectures/workshops by industry professionals from across different media specialisations. Each session will be followed by a seminar. Sessions on media careers research will be included. Students will learn how to synthesise the competencies they have gained from other core Media

courses, and how to execute a media work-related project. Groupwork is possible.

MDIA 3302 Media Industry Placement

6 units - summer semester or semester 1 or 2*

Restriction: B.Media students only

Prerequisite: 2 Level II Media core courses

Assessment: organisation's performance evaluation of student 30%, departmental evaluation (based on professional skills, mid-placement progress reports) 30%, student portfolio 40%

This course is open to every Bachelor of Media student as an elective. It is highly recommended for those who wish to search for media work directly after completion of their undergraduate degree. It not only recognises the importance of collaborative ventures between the university and various media organisations in the community, it is aimed at readying students to participate in diverse media workplace cultures. Students should negotiate their own placements with organisations of their choice, after discussion with 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 and it requires them to contribute to the host organisation project. Proposed projects require sign-off by Media discipline supervisors. 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 if staff are available to supervise them, and the host organisation and the University agree on a mutually acceptable time frame.

MDIA 3303 Media Theory

6 units - semester 1

3 contact hours per week

Restriction: B.Media students only

Prerequisite: 2 Level II Media core courses

Assessment: participation 20%, seminar exercise 10%, seminar paper 30%, final essay/group project 40%

This course examines the different traditions within media theory through the work of key thinkers who have from the 19th century to the digital present influenced the ways that media has been and is theorised. It investigates the social and cultural processes implicated in the production, distribution and consumption of media forms, through historical and political economy approaches

MDIA 3304 Radio Production B

6 units - semester 1

5 contact hours per week

Restriction: B.Media students only

Prerequisite: MDIA 2203

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.

MDIA 3305 Directed Study in Media

6 units - semester 2

2 hour induction, 1 hour weekly supervision, 2 hour final presentation

Prerequisite: distinction average in MDIA 2204, one other compulsory Level II Media course

Assessment: literature search 20%, minor assignment 20%, work-in-progress report/screening 10%, draft/first edit 10%, formal report and presentation/screening & exegesis/other approp. dissemination 40%

This course provides an introduction to research or research-driven practice. You design the project, apply, and agree to meet every week with supervisors to undertake a mutually interesting Directed Study. Assessment components are individually and contractually negotiated. There is an option to work in a syndicate of peers on a collaborative project, with the permission of the Coordinator. Possible topics include: text, genre or audience studies - such as user-generated-content, e-democracy or machinima; commentary on the theories and the histories of various media - such as global format flows or mobile technologies; analyses of policy and regulation on - for example, the mobile web or intellectual property; process-based and self-reflexive digital productions - such as locative and interactive media; or industries-based research projects - such as case studies of convergence, business models, and RSS impact. Elements may be combined in your proposal. Taking an individual Directed Study in Media helps you assess your potential research interests and capacities, your project management skills and workplace readiness. Working in a syndicate project helps to prepare you for collaborative work and research environments.

HONOURS

MDIA 4401A/B 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. Both stream take the compulsory core course, and an elective course.

Medical Studies

LEVEL I

MEDIC ST 1000A/B First Year MBBS Examination

MEDIC ST 1101A/B Scientific Basis of Medicine I

6 units - full year

Weekly lectures, PBL sessions & resource sessions

Restriction: 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 lectures.

MEDIC ST 1102A/B Clinical Skills I

6 units - full year

Weekly lectures, PBL sessions & resource sessions

Restriction: 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 Medicine Course's Clinical Skills Laboratory Located within the Medical School building.

MEDIC ST 1103A/B **Medical Professional & Personal Development I**

6 units - full year

Weekly lectures, PBL sessions & resource sessions

Restriction: 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 and epidemiology are developed.

LEVEL II

MEDIC ST 2000A/B **Second Year MBBS Examination**

MEDIC ST 2101A/B **Scientific Basis of Medicine II**

6 units - full year

Weekly lectures, PBL sessions & resource sessions

Restriction: 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 lectures.

MEDIC ST 2102A/B **Clinical Skills II**

6 units - full year

Weekly lectures, PBL sessions & resource sessions

Restriction: 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 within the Medicine Course's Clinical Skills Laboratory located in the Medical School building.

MEDIC ST 2103A/B **Medical Professional & Personal Development II**

6 units - full year

Weekly lectures, PBL sessions & resource sessions

Restriction: 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 and epidemiology are developed.

LEVEL III

MEDIC ST 3000A/B **Third Year MBBS Examination**

MEDIC ST 3101A/B **Scientific Basis of Medicine III**

6 units - full year

Weekly lectures, PBL sessions & resource sessions

Restriction: 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 lectures.

MEDIC ST 3102AHO/BHO **Clinical Skills III**

6 units - full year

Weekly lectures, PBL sessions & resource sessions

Restriction: 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 through placement in a hospital for one day per week.

MEDIC ST 3103A/B **Medical Professional & Personal Development III**

6 units - full year

Weekly tutorials and regular lectures

Restriction: MBBS students only

Prerequisite: Year 2 MBBS exam

Assessment: details provided at start of semester

Through this stream students will develop competency in issues relating to public health, particularly population health, medical systems, ethics and epidemiology. Supporting skills in information technology, decision making, information management, organisational factors, workflow, patient safety, evidence based medicine and epidemiology are developed.

LEVEL IV

MEDIC ST 4000AHO/BHO **Fourth Year MBBS Examination**

MEDIC ST 4005AHO/BHO **Medical Home Unit**

5 units - full year

Attachments, common program & research

Restriction: 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/BHO **Surgical Home Unit**

5 units - full year

Attachments, common program & research

Restriction: 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/BHO **Psychological Health**

3 units - full year

Attachments, common program & research

Restriction: 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/BHO **Acute and Chronic Care 1**

3 units - full year

Attachments, common program & research

Restriction: 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/BHO **Medical and Scientific Attachment 1**

2 units - full year

Attachments, common program & research

Restriction: 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/BHO **Medical and Scientific Attachment 2**

2 units - full year

Attachments, common program & research

Restriction: 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/BHO **Research Proposal**

2 units - full year

Common program & research

Restriction: 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/BHO **Common Program**

2 units - full year

Weekly 1/2 day program

Restriction: 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 5000AHO/BHO **Fifth Year MBBS Examination**

MEDIC ST 5005AHO/BHO **Medical and Scientific Attachment 3**

2 units - full year

Attachments, common program & research

Restriction: 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/BHO **Medical and Scientific Attachment 4**

2 units - full year

Attachments, common program & research

Restriction: 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/BHO **Medical and Scientific Attachment 5**

2 units - full year

Attachments, common program & research

Restriction: 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/BHO **Medical and Scientific Attachment 6**

2 units - full year

Attachments, common program & research

Restriction: 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/BHO **Acute and Chronic Care 2**

4 units - full year

Attachments, common program & research

Restriction: 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/BHO **Paediatrics and Child Health**

5 units - full year

Attachments, common program & research

Restriction: 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/BHO **Human Reproductive Health**

5 units - full year

Attachments, common program & research

Restriction: 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/BHO **Common Program**

2 units - full year

Weekly 1/2 day program

Restriction: 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 units - semester 2

Placement in external institution

Restriction: 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**

0 units - semester 1 or 2

4 x 4 week placements, 16 wk afternoon seminar program, 1 week program in ENT; 4 x 4 placement

Restriction: MBBS students

Assessment: to be advised

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, Queen Elizabeth Hospital, Lyell McEwin Hospital, Women's and Children's Hospital and Modbury Hospital; 4 week placement under the supervision of the Emergency Medicine Department/s; 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; 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 (Sixth Year) Assessment:

MEDIC ST 6001AHO/BHO
Clinical Elective & Specials Weeks VI

3 units - full year

Restriction: MBBS students only

Prerequisite: Year 5 MBBS exam

Assessment: To be advised at the start of the year

MEDIC ST 6002AHO/BHO
Medicine Internship & Common Program VI

3 units - full year

Restriction: MBBS students only

Prerequisite: Year 5 MBBS exam

Assessment: to be advised at the start of year

MEDIC ST 6003AHO/BHO
Surgery Internship VI

3 units - full year

Restriction: MBBS students only

Prerequisite: Year 5 MBBS exam

Assessment: to be advised at the start of year

MEDIC ST 6004AHO/BHO
Emergency Medicine Internship VI

3 units - full year

Restriction: MBBS students only

Prerequisite: Year 5 MBBS exam

Assessment: to be advised at the start of year

MEDIC ST 6005AHO/BHO
Primary Health SCAP VI

3 units - full year

Restriction: MBBS students only

Prerequisite: Year 5 MBBS exam

Assessment: to be advised at the start of year

MEDIC ST 6006AHO/BHO
Psychological Health VI

3 units - full year

Restriction: MBBS students only

Prerequisite: Year 5 MBBS exam

Assessment: to be advised at the start of year

MEDIC ST 6007AHO/BHO
Medicine SCAP VI

3 units - full year

Restriction: MBBS students only

Prerequisite: Year 5 MBBS exam

Assessment: to be advised at the start of year

MEDIC ST 6008AHO/BHO
Surgery SCAP VI

3 units - full year

Restriction: MBBS students only

Prerequisite: Year 5 MBBS exam

Assessment: to be advised at the start of year

Each of the above courses are available only to MBBS students. Assessment for each course will be advised at the beginning of the year.

HONOURS

ANAES&IC 4000AHO/BHO
Honours Anaesthesia and Intensive Care

24 units - full year

Restriction: BMedSc students, appropriately qualified B.Hlth.Sc. students, or 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 4000AHO/BHO
Honours Medicine

24 units - full year

Restriction: BMedSc students, appropriately qualified B.Hlth.Sc. students, or 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 4000AHO/BHO
Honours Orthopaedics and Trauma

24 units - full year

Restriction: BMedSc students, appropriately qualified B.Hlth.Sc. students, or 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 4000AHO/BHO
Honours Paediatrics

24 units - full year

Restriction: BMedSc students, appropriately qualified B.Hlth.Sc. students, BSc students or permission of Head of Discipline

Assessment: details available on the Discipline 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 discipline 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

Restriction: BSc (Biotech) students only

Available for Non-Award Study

Prerequisite: BIOLOGY 1101/1102, BIOLOGY 1201 or BIOLOGY 1202

Incompatible: MICRO 2004 or equiv

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

Restriction: None

Available for Non-Award Study

Prerequisite: BIOLOGY 1101/1102, BIOLOGY 1201 or BIOLOGY 1202 or ANAT SC 1102 or equiv

Incompatible: MICRO 2000 or equiv, MICRO 3003

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

Restriction: None

Available for Non-Award Study

Prerequisite: BIOLOGY 1101/1102, BIOLOGY 1201 or BIOLOGY 1202 or ANAT SC 1103 or equiv

Assumed Knowledge: MICRO 2004 or equiv

Incompatible: MICRO 2000B or equiv, MICRO 3003

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 per week

Restriction: BSc (Biomed) students only

Available for Non-Award Study

Prerequisite: BIOLOGY 1101/1102, BIOLOGY 1201 or BIOLOGY 1202 or equiv

Incompatible: MICRO 2001A or equiv

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 per week
 Restriction: BSc (Biomed) students only
 Available for Non-Award Study
 Prerequisite: BIOLOGY 1101/1102, BIOLOGY 1201 or BIOLOGY 1202 or equiv
 Assumed Knowledge: MICRO 2101 or equiv
 Incompatible: MICRO 2001B or equiv
 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 per week
 Restriction: BSc (Biotech) students only
 Available for Non-Award Study
 Prerequisite: BIOLOGY 1101/1102, BIOLOGY 1201 or BIOLOGY 1202 or equiv
 Assumed Knowledge: MICRO 2004 or equiv
 Incompatible: MICRO 2003B or equiv
 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.

LEVEL III

**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 or MICRO 2002
 Assumed Knowledge: MICRO 2005 or equiv
 Incompatible: MICRO 3102
 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 or equiv

Assumed Knowledge: MICRO 2004 or equiv

Incompatible: MICRO3202 or equiv

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 immunisation 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

Incompatible: students enrolled after 2001 in MICRO 2000A/B, MICRO 2001A/B, MICRO 2003A/B or MICRO 2002

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

Restriction: BSc (Biomed.) students only

Available for Non-Award Study

Prerequisite: MICRO 2101 or equiv

Incompatible: MICRO 3102 or equiv

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

Restriction: BSc (Biomed) students only

Available for Non-Award Study

Prerequisite: MICRO 2101, MICRO 2201 or equivalents

Incompatible: MICRO 3002A or equiv

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 immunisation 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 4000A/B **Honours Microbiology and Immunology**

24 units - full year

Prerequisite: Satisfactory performance in Level III courses offered by School of Molecular and Biomedical Science - 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 Microbiology, Immunology or Virology. This will involve 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.

Music

LEVEL I

COMP 1500A/B **Composition I**

6 units - full year

0.5 hour individual tuition, 1.5 hour seminar in technical studies, 1.5 hour practical workshop per week

Restriction: music degree students only - consult relevant Academic Program Rules

Prerequisite: audition

Incompatible: COMP 1002, 7349

Assessment: folio of exercises, compositions, including recordings where possible: 50%; technical studies assignments, participation: 25%; composers' workshop assignments, presentations: 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 1002A/B **Jazz Choir: Level I**

3 units - full year

3 hours per week; additional rehearsals for concerts may be required

Restriction: music degree students only - consult relevant Academic Program Rules

Prerequisite: audition

Incompatible: ENS 1001B A, 8784

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 jazz styles: ongoing development of choral, musical and ensemble skills to a high level. Following auditions, students will be allocated to either the 'Adelaide Connection' or 'A Kind of Blue' jazz choirs.

ENS 1004A/B **Jazz Big Band: Level I**

3 units - full year

3 hours per week, additional sectional concert rehearsals may be required

Restriction: music degree students only - consult relevant Academic Program Rules

Prerequisite: audition

Incompatible: ENS 1005B, ENS 1006B, 5889

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 Big Band jazz tradition. Following auditions, students will be allocated to either Big Band One, Two or Three as appropriate.

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

Restriction: priority given to music degree students - consult relevant Academic Program Rules - other students may audition for limited number of places

Prerequisite: audition

Assessment: individual graded assessment of relevant repertoire; 100% attendance required except in cases of illness or approved leave. Further assessment information available in course outline.

Rehearsals and performance of repertoire for orchestra.

ENS 1010A/B **Elder Conservatorium Wind Orchestra I**

3 units - full year

3 or 4 hours supervised rehearsals for the Wind Ensemble per week; additional rehearsals for concerts may be required

Restriction: music degree students only - consult relevant Academic Program Rules

Prerequisite: audition

Incompatible: 9300

Assessment: individual graded assessment of relevant repertoire; 100% attendance required except in cases of illness or approved leave - further information in course outline

Rehearsals and performance of repertoire for wind ensemble and/or orchestra.

ENS 1011A/B **Jazz Guitar Band: Level I**

3 units - full year

3 hours per week, additional sectional & concert rehearsals may be required

Restriction: music degree students only - consult relevant Academic Program Rules

Prerequisite: audition

Incompatible: ENS 1012B, 5889

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 of specialised arrangements. Following auditions, students will be allocated to Jazz Guitar Band One or Two as appropriate.

ENS 1017A/B **Percussion Ensemble I**

3 units - full year

2 hours supervised rehearsals per week

Restriction: music degree students only - consult relevant Academic Program Rules

Prerequisite: audition

Incompatible: 3665

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

2.5 hours classes, supervised rehearsals per week

Restriction: priority to music degree students - consult relevant Academic Program Rules - other students may audition for limited number of places

Prerequisite: audition

Incompatible: 8341

Assessment: individual graded assessment of relevant repertoire. 100% attendance required except in cases of illness or approved leave. Further assessment information available in course outline.

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; performances as scheduled, additional rehearsals for concerts may be required

Restriction: priority to music degree students but also available to non-music students subject to audition & number of places

Prerequisite: audition

Incompatible: 8784

Assessment: individual graded assessment of relevant repertoire; 100% attendance required except in cases of illness or approved leave - further information in course outline

Rehearsal and performance of accompanied and unaccompanied chamber 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

2.5 hour rehearsal per week, performances as scheduled, additional rehearsals for concerts may be required

Restriction: priority to music degree students but also available to non-music students subject to audition & number of places

Prerequisite: audition

Assessment: individual graded assessment of relevant repertoire; 100% attendance required except in cases of illness or approved leave - further information in course outline

Rehearsal and performance of accompanied and unaccompanied chamber 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 rehearsal per week, performances as scheduled, additional rehearsals for concerts may be required

Restriction: priority to music degree students but also available to non-music students subject to audition & number of places

Prerequisite: audition

Assessment: individual graded assessment of relevant repertoire; 100% attendance required except in cases of illness or approved leave - further information in course outline

Rehearsal and performance of accompanied and unaccompanied choral works for female voices 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

1 hour workshop, 1 hour unsupervised rehearsals per week, 5 hours supervised rehearsals per semester

Restriction: music degree students or by audition

Prerequisite: audition

Incompatible: 3269

Assessment: satisfactory attendance at workshops, participation in rehearsals and performances, end of semester practical exam

Rehearsal and performance of works for chamber ensemble (i.e. one person to a part). This may include works prepared in Chamber Music Workshop, Brass Ensemble, Percussion Ensemble and Guitar Ensemble.

ENS 1031 Chamber Music IB

1.5 units - semester 2

1 hour workshop, 1 hour unsupervised rehearsals per week, 5 hours supervised rehearsals per semester

Restriction: music degree students or by audition

Prerequisite: ENS 1031 Chamber Music IA or audition

Incompatible: 3269 Chamber Music I

Assessment: satisfactory attendance at workshops, participation in rehearsals and performances, end of semester practical exam

Rehearsal and performance of works for chamber ensemble (i.e. one person to a part). This may include works prepared in Chamber Music Workshop, Brass Ensemble, Percussion Ensemble and Guitar Ensemble.

GENMUS 1001 From Elvis to U2 I

3 units - semester 1

1 x 2 hour and 1 x 1 hour lectures per week (3 hours total)

Restriction: ability to play/ read music not a requirement

Available for Non-Award Study

Assessment: essay 40%, exam 60%

A survey of popular music since the 1950s. The focus is on significant groups, artists, and trends from a range of styles including Rhythm and Blues, Rock and Roll, Folk Rock, The Beatles, Soul, Metal, Funk, Disco, Punk, Hip-Hop, Grunge, Alternative, Electronica and Mainstream Pop.

Throughout the course, attention is given to the impact of socio-cultural environments and evolving music technologies upon the aesthetics and production of popular music.

GENMUS 1003 Musics of the World I

3 units - semester 2

1 x 2 hour and 1 x 1 hour lectures (3 hours total) per week

Available for Non-Award Study

Restriction: ability to play/ read music not a requirement

Incompatible: 5448, 9751, 1423, 2673

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 1014 Sound & Media Technology I

3 units - semester 2

1 x 2 hour, 1 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 1026A/B Perspectives in Music Technology I

3 units - full year

2 x 1 hour seminars per week/12 weeks

Restriction: priority given to music degree students - consult relevant Academic Program Rules - other students may audition for a limited number of places

Prerequisite: GENMUS 1026A

Assessment: papers/presentations, exams

Seminar 1: Cultural and historical analysis of new technologies and their impact on the creation, performance, representation and reception of music.
Seminar 2: Scientific analysis and understanding of music technology and its associated fields including - the physics and psychophysics of sound; acoustics; synthesis and processing; and audio and MIDI theory.

JAZZ 1000A/B Jazz Performance I

9 units - full year

1 hr indiv. tuition p/w, jazz forum (using small jazz ensembles), 1.5 hrs p/w, technique/repertoire class (masterclass) according to instrumental/vocal specialisation 1 hr p/w, small jazz ensemble 1 hr supervised p/w - all over 24 wks

Restriction: music degree students only - consult relevant Academic Program Rules

Prerequisite: audition

Incompatible: 1662, ENS 1019A/B

Assessment: semester 1 - 20 min technique/performance exam 20%, Small Jazz Ensemble 15%, teacher's report 5%; semester 2 - final 25 min practical exam 40%, teacher's report 5%, Small Jazz Ensemble 15% (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 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 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 and colour.

JAZZ 1003A/B **Jazz Improvisation I**

3 units - full year

1 hour lecture, 2 hour tutorial per week (incl. 1 hour Afro-American rhythms)

Restriction: music degree students only - consult relevant Academic Program Rules

Incompatible: 7321/4391

Assessment: assignments & participation in class 20%, end of semester written & prac exams 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.

MUSCURE 1005 **Music Foundations I: Jazz**

3 units - semester 1

1 hour aural, 1 hour choir, 2 hour workshop per week

Restriction: music degree students only - consult relevant Academic Program Rules

Incompatible: 1268, 5549, 7705, 7320 2107

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 MUSCURE 1008.

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.

MUSCURE 1006 **Music in Context I: Jazz**

3 units - semester 2

1 hour aural, 1 hour choir, 2 hour workshop per week

Restriction: music degree students only - consult relevant Academic Program Rules

Prerequisite: MUSCURE 1005

Incompatible: 5549, 7705, 7320 2107

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 MUSCURE 1008.

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.

MUSCURE 1007 **Introduction to Theory & Analysis of Music I**

3 units - semester 1

1 hour lecture, 1 hour tutorial, 1 hour aural per week

Available for Non-Award Study

Incompatible: MUSCURE 1001, MUSCURE 1003

Assessment: theory - assignments 40%, exam (including repertoire listening test) 30%, aural - as required for stream/level 30%

The components of this course collectively provide a strong basis for the development of musicianship and musical understanding.

Lecture: introduction to musical acoustics and perception; concepts of consonance, dissonance and other core elements in Western and non-Western music; survey of analytical approaches to music, including traditional harmonic analysis, analyses of rhythm and timbre, and analyses incorporating non-Western concepts.

Tutorial: reinforcement of lecture material through exercises, discussion and expanded repertoire listening

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. Aural 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.

MUSCORE 1008 **Contrapuntal Analysis & Composition I**

3 units - semester 2

1 hour lecture, 1 hour tutorial, 1 hour aural per week

Available for Non-Award Study

Assumed Knowledge: SACE Stage 2 Musicianship or AMEB Grade 5 theory

Assessment: theory - assignments 40%, exam (including repertoire listening test) 30%, aural - as required for stream/level 30%

The components of this course collectively provide a strong basis for the development of musicianship and musical understanding.

Lectures: introduction to technique of C16th species counterpoint; introduction to analysis and technique of C18th counterpoint especially as represented in the work of J.S. Bach; harmonic conventions as applicable to understanding counterpoint. Brief survey of contrapuntal styles from the Pre-Renaissance to the Twentieth Century.

Tutorials: reinforcement of lecture material through exercises, discussion and expanded repertoire listening.

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. Aural 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.

MUSCORE 1009 **Foundations of Music History IA**

3 units - semester 1

1 hour lecture; 1 hour tutorial; 1 hour choir per week

Available for Non-Award Study

Assessment: history - essay 40%, short written assignments 20%; library skills workbook 10%; choir - demonstration of individual sight-singing ability & involvement in one performance 30%

Lectures will cover the broad sweep of Western music history from ancient Greece to the nineteenth century. Tutorials will reinforce lecture material through discussion and expanded repertoire listening, and will develop research and writing skills. Choir will develop aural skills through choral singing, with emphasis on sight-reading, aural development and vocal skills.

MUSCORE 1010 **Foundations of Music History IB**

3 units - semester 2

1 hour lecture; 1 hour tutorial; 1 hour choir per week

Available for Non-Award Study

Assessment: history - essay 45%, short assignments 25%; choir - demonstration of individual sight-singing ability & involvement in one performance 30%

Lectures will cover the broad sweep of Western music history from the nineteenth century to the present day, with excursions into popular and non-Western musics.

Tutorials will reinforce lecture material through discussion and expanded repertoire listening, and will develop research and writing skills. Choir will develop aural skills through choral singing, with emphasis on sight-reading, aural development and vocal skills.

MUSST 1000A/B **Studies In Music I**

6 units - full year

1 x 2 hour, 1 x 1 hour lectures; 1 hour tutorial

Incompatible: GENMUS 1003

Assessment: exam & essay as per GENMUS 1003 75%, brief tutorial research/presentation 25%

Lectures from the course GENMUS 1003 Musics of the World I. These semester studies are supported by weekly tutorials throughout the year to develop an understanding of music in its social context, consolidate research and communication skills and provide an integrated disciplinary approach.

MUSST 1010A/B **Studies in Composition I**

3 units - full year

1.5 hour seminar in technical studies, 1.5 hour practical workshop per week

Prerequisite: basic score reading skills

Incompatible: COMP 1001/1002

Assessment: semester 1: technical studies assignments & participation 20%, composers' workshop assignments & participation 20%; semester 2 - technical studies assignments & participation 30%, composers' workshop assignments & participation 30%

Study of the fundamentals of composition in various styles and genres with an emphasis on contemporary classical repertoire. Technical studies seminar: compositional methods and analysis (basic score reading skills will be required). Workshop: project-based composition leading to performance of students' works.

MUSST 1020 **Choral Masterworks I**

3 units - semester 1

2 hour workshop

Restriction: music degree students only -consult relevant Academic Program Rules

Assessment: 2 written assignments (30% each); essay 40%

A consideration of aspects of the Conservatorium's current opera, music theatre project and/or major choral works.

MUSTECH 1003A/B Music Technology I

6 units - full year

2 x 1 hour seminars & 1 x 2 hour workshop (4 hours per week) for 12 weeks

Restriction: Music degree students only - consult relevant Academic Program Rules

Prerequisite: audition

Assessment: portfolio 25%; projects 75%

Seminars: through the practical study of software and hardware students will develop skills in the use and application of studio and desktop music technology. This will include editors, processors, sequencers, microphones, mixing desks and recording devices used in the areas of studio, audio, MIDI, sound design (such as multimedia, film and game sound), electronic and computer music, sonic arts and media production.

Workshop: students will engage with the concepts of music technology through the development of creative, theoretical and technical skills via workshops, presentations, listening, industry focus and research.

PERF 1002A/B Keyboard Musicianship I

3 units - full year

2 hour practical workshop per week

Restriction: music degree students or by audition

Available for Non-Award Study

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 and improvisation (semester 1), figured bass, score reading, modulation and rapid learning (semester 2).

PERF 1500A/B Classical Performance I

9 units - full year

30 hours of tuition; Classical Performance Forum 1.5 hours p/w, technique/repertoire class, organised according to instrumental/vocal specialisation, 1.5 hours p/w - all for 24 wks

Restriction: music degree students only

Prerequisite: audition

Assessment: semester 1: 20 min technique assessment or equivalent 30%, teacher assessment 10%; semester 2: 25 min end of year practical exam 50%, teacher's assessment 10% (end of year practical exam must be passed in order to pass course)

Classical performance specialisations are available in a variety of instruments or in voice. Students must enrol in the relevant tuition class for their specialisation.

Through the study of appropriate technical and recital literature, students develop 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.

PERF 1600A/B Practical Study I: Performance

6 units - full year

12 hours tuition; Practical study Forum 1.5 hours per week/24 wks; technique/repertoire class, organised according to instrumental/vocal specialisation, 1.5 hours per week/24 wks

Restriction: music degree students only - consult relevant Academic Program Rules

Prerequisite: audition

Assessment: semester 1: teacher assessment 5%, 10 min practical assessment 35%; semester 2: teacher assessment 5%, 15 min practical assessment 55% (end of year practical assessment must be passed in order to pass course)

Classical performance specialisations are available in a variety of instruments, or in voice. Students must enrol in the relevant tuition class for their specialisation.

Development of technique and repertoire on an instrument or voice at levels appropriate to an individual student's potential.

LEVEL II

COMP 2500A/B Composition II

6 units - full year

0.5 hour individual tuition, 1.5 hour seminar in technical studies, 1.5 hour practical workshop per week

Restriction: music degree students only - consult relevant Academic Program Rules

Prerequisite: COMP 1500/2500A

Incompatible: COMP 2001/2002,1548

Assessment: folio of exercises, compositions, including recordings where possible: 50%; technical studies assignments, participation: 25%; composers' workshop, 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 2002A/B Jazz Choir: Level II

3 units - full year

3 hours per week, additional rehearsals for concerts may be required

Restriction: music degree students only - consult relevant Academic Program Rules

Prerequisite: audition

Incompatible: ENS 2001, 8784

Assessment: ensemble achievement in rehearsals/performance 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 jazz styles; on-going development of choral, musical and ensemble skills to a high level. Following auditions, students will be allocated to either the 'Adelaide Connection' or 'A Kind of Blue' jazz choirs.

ENS 2004A/B
Jazz Big Band: Level II

3 units - full year

3 hours per week, additional sectional and concert rehearsals may be required

Restriction: music degree students only - consult relevant Academic Program Rules

Prerequisite: audition

Incompatible: ENS 2005, ENS 2006, 4557

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 Big Band jazz tradition. Following auditions, students will be allocated to either Big Band One, Two or Three as appropriate.

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

Restriction: priority given to music degree students - consult relevant Academic Program Rules - other students may audition for limited number of places

Prerequisite: audition

Assessment: individual graded assessment of relevant repertoire; 100% attendance required except in cases of illness or approved leave - further information in course outline

Rehearsal and performance of repertoire for orchestra.

ENS 2010A/B
Elder Conservatorium Wind Orchestra II

3 units - full year

3-4 hours supervised rehearsals for the Wind Ensemble, additional rehearsals for concerts may be required

Restriction: music degree students only - consult relevant Academic Program Rules

Prerequisite: audition

Incompatible: 6358

Assessment: individual graded assessment of relevant repertoire; 100% attendance required except in cases of illness or approved leave - further information in course outline

Rehearsal and performance of repertoire for wind ensemble.

ENS 2011A/B
Jazz Guitar Band: Level II

3 units - full year

3 hours per week, additional & sectional concert rehearsals may be required

Restriction: music degree students only - consult relevant Academic Program Rules

Prerequisite: audition

Incompatible: ENS 2012, 4557

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 of specialised arrangements. Following auditions, students will be allocated to Jazz Guitar Band One or Two as appropriate.

ENS 2017A/B
Percussion Ensemble II

3 units - full year

2 hours supervised rehearsals per week

Restriction: music degree students only - consult relevant Academic Program Rules

Prerequisite: audition

Incompatible: 4717

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

2.5 hours classes and supervised rehearsals per week

Restriction: priority given to music degree students, consult relevant Academic Program Rules - other students may audition for limited number of places

Prerequisite: audition

Incompatible: 9199

Assessment: individual graded assessment of relevant repertoire. 100% attendance required except in cases of illness or leave - further information in course outline

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; plus performance as scheduled, additional rehearsals for concerts may be required

Restriction: priority to music degree students but also available to non-music students subject to audition & number of places

Prerequisite: audition

Incompatible: 8463 Large Vocal Ensemble II

Assessment: individual graded assessment of relevant repertoire; 100% attendance required except in cases of illness or approved leave - further information in course outline

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 part 1**

3 units - full year

2.5 hours rehearsal per week; plus performances as scheduled; additional rehearsals for concerts may be required

Restriction: priority to music degree students but also available to non-music students subject to audition & number of places

Prerequisite: audition

Assessment: individual graded assessment of relevant repertoire; 100% attendance required except in cases of illness or approved leave - further information in course outline

Rehearsal and performance of accompanied and unaccompanied chamber 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, plus performances as scheduled, additional concert rehearsals may be required

Restriction: priority given to music degree students but course is also available to non-music students subject to audition and number of places

Prerequisite: audition

Assessment: individual graded assessment of relevant repertoire; 100% attendance required except in cases of illness or approved leave - further information in course outline

Rehearsal and performance of accompanied and unaccompanied choral works for female voices 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

1 hour workshop per week, 1 hour of unsupervised rehearsals per week, 5 hours supervised rehearsals per semester

Restriction: music degree students or by audition

Prerequisite: ENS 1031

Incompatible: 7880

Assessment: satisfactory attendance at workshops, participation in rehearsals and performances, end of semester practical exam

Rehearsal and performance of works for chamber ensemble (i.e. one person to a part). This may include works prepared in Early Music Workshop, Brass Ensemble, Percussion Ensemble and Guitar Ensemble.

ENS 2031 **Chamber Music IIB**

1.5 units - semester 2

1 hour workshop, 1 hour unsupervised rehearsals per week; 5 hours supervised rehearsals per semester

Restriction: music degree students or by audition

Prerequisite: ENS 2030

Incompatible: 7880

Assessment: satisfactory attendance at workshops, participation in rehearsals and performances, end of semester practical exam

Rehearsal and performance of works for chamber ensemble (i.e. one person to a part). This may include works prepared in Early Music Workshop, Brass Ensemble, Percussion Ensemble and Guitar Ensemble.

GENMUS 2005 **Music, Media & Contemporary Society II**

3 units - semester 2

1 x 3 hour lecture per week

Prerequisite: ability to play/read music not a requirement

Incompatible: GENMUS 3005, 9801/5307, 4293/8324

Assessment: essay 40%, exam 60%

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 2009 **Music, Media & Contemporary Society II (Arts)**

4 units - semester 2

1 x 3 hour lecture per week

Prerequisite: ability to play/read music not a requirement

Incompatible: GENMUS 3005, 9801/5307, 4293/8324

Assessment: essay 40%, exam 60%

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 2012 **Village Voices: Greenwich in the 1960s II (Arts)**

4 units - semester 1

1 x 3 hour lecture per week

Restriction: Level II or III students in any program

Available for Non-Award Study

Assessment: 3,500 word essay 60%, exam 40%

This course will explore one of the most culturally fertile and vibrant eras of recent times (the 1960s) by focussing on a location (Greenwich Village, New York) that was a hub of artistic experimentation and collaboration, against a background of social change and political turmoil. The course will explore the emergence of new art forms - both 'high art' and popular - and the dynamic interactions between artists in different disciplines, with a particular focus on music. The ability to read music or play an instrument is not required for this course. Topics include: The Avant Garde: John Cage, Morton Feldman, Edgard Varese, Merce Cunningham, Robert Rauschenberg;

Poetry in Action: political activism in the work of Bob Dylan and Allen Ginsberg; Less is More: minimalism in the arts and music: Phil Glass, Steve Reich, La Monte Young, Phil Niblock, Sol LeWitt, Jasper Johns, Robert Morris, Donald Judd; Happenings, Fluxus and Conceptual Art: Allan Kaprow, George Maciunas, George Brecht, Philip Corner, Jonas Mekas, Harry Smith; Pop Art and Art Rock: Andy Warhol, The Velvet Underground, Lou Reed, The Fugs; Jazz at the Village Vanguard: Bill Evans, Miles Davis, Ornette Coleman, Cecil; Taylor.

GENMUS 2014 **Music & Ideology II (Arts)**

4 units - semester 2

1 x 3 hour lecture per week

Restriction: Level II or III students in any program

Available for Non-Award Study

Assessment: 3,000 word essay 70%; 1,000 word annotated bibliography 30%

This course examines the impact on western art and popular music of political, cultural and religious ideologies, with particular emphasis on the twentieth century to the present day. The ability to read music or play an instrument is not required for this course. Topics to be addressed include: Precursors: Music in Plato's republic, The Council of Trent, Mozart and Freemasonry; Richard Wagner: His dalliance with the political Right and later appropriation by Nazism; Shostakovich and socialist realism; The Congress for Cultural Freedom; The Avant-garde and French Cultural Politics; Woody Guthrie, Bob Dylan and the 1960s protest movement; Cornelius Cardew and Anti-imperialism; Midnight Oil and the political empowerment of Australian rock music; The role of music in contemporary Christian worship.

GENMUS 2026A/B **Perspectives in Music Technology II**

3 units - full year

2 x 1 hour seminars per week for 12 weeks

Restriction: priority to music degree students - consult relevant Academic Program Rules - other students may audition for a limited number of places

Prerequisite: GENMUS 2026A

Assessment: papers/presentations 50%; exams 50%

Seminar 1: analysis and understanding of new technologies and their application to music, computer music, electro-acoustic composition recording and sonic arts.

Seminar 2: Analysis and understanding of compositional concepts and technology including topics such as mathematics, generative systems, theory, grammars and probability.

JAZZ 2000A/B **Jazz Performance II**

9 units - full year

1 hr individual tuition p/w, jazz forum (using small jazz ensembles) 1.5 hrs p/w, technique/repertoire class (masterclass) according to instrumental/vocal specialisation 1 hr p/w, small jazz ensemble 1 hr supervised p/w - all over 24 wks

Restriction: music degree students only -consult relevant Academic Program Rules

Prerequisite: JAZZ 1000B

Incompatible: 8010, JAZZ 2004A/B

Assessment: semester 1 - 20 min technique/performance exam 20%, Small Jazz Ensemble 20%; semester 2 - final 30 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 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 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 2006A/B

Jazz Improvisation II

3 units - full year

1 hour lecture, 2 hours tutorial per week (incl. 1 hour Afro-American rhythms)

Restriction: music degree students only - consult relevant Academic Program Rules

Prerequisite: JAZZ 1003B

Incompatible: 9314

Assessment: assignments, class participation 20%, written, prac 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

Restriction: music degree students only - consult relevant Academic Program Rules

Assessment: assignments 65%, end of year submission of arrangement 35%

Advanced techniques of textural and harmonic procedures in jazz arranging for small and medium jazz ensembles. 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 individual tuition/24 wks, 1 hour performance class & 1.5 hours Jazz Performance forum per wk, 1 hour supervised small jazz ensemble laboratory per week/24 wks

Restriction: students enrolled in a music degree - consult relevant Academic Program Rules

Prerequisite: JAZZ 1000B

Incompatible: 7558

Assessment: semester 1 - teacher's report 5%, ensemble laboratory 10%, 10 min mid-year assessment 20%; semester 2 - teacher's report 5%, 20 min practical assessment 50%, ensemble laboratory 10% (end of year practical assessment 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 hour performance class particular to their major study. They enrol in the relevant tuition class for their specialisation.

MUSCORE 2003

Music in Context IIA: Jazz

3 units - semester 1

1 hr aural, 1 hr theory lecture, 1 hr theory tutorial, 1 hr history lecture, 1 hr history tutorial per week

Restriction: only available to students enrolled in a music degree -consult relevant Academic Program Rules

Prerequisite: MUSCORE 1005, MUSCORE 1006

Incompatible: 1222, 1930, 2008, JAZZ 2003A/B

Assessment: aural - as required for stream 20%, theory (weekly assignments & tests 50%, exam 50%) 40%, history (study skills assignment 15%, annotated bibliographic survey 15%, essay 35%, listening/written exam 35%) 40%

Aural: Refer to MUSCORE 1008.

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 hr aural, 1 hr theory lecture, 1 hr theory tutorial, 1 hr history lecture, 1 hr history tutorial per week

Restriction: music degree students only - consult relevant Academic Program Rules

Prerequisite: MUSCORE 2003

Incompatible: 1222, 1930, 2008, JAZZ 2003A/B

Assessment: aural - as required for stream 20%; theory (weekly assignments & tests 50%, exam 50%) 40%, history (tutorial assignments 10%, group oral presentation 30%, essay 35%, listening/written exam 25%) 40%

Aural: Refer to MUSCORE 1008.

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.

MUSCURE 2005

Western Music in Theory & Practice IIA: 1750-1850

3 units - semester 1

2 x 1 hour lectures, 1 hour tutorial, 1 hour aural per week (4 hours total)

Available for Non-Award Study

Prerequisite: MUSCURE 1007, MUSCURE 1008

Incompatible: MUSCURE 1004

Assessment: theory - assignments 40%, history - essay 25%, repertoire listening test 15%, aural - as required for stream/level 20%

History- lectures: key historical, aesthetic and philosophical trends in Western art music from early 18th century to mid-19th century.

Theory & Analysis - lectures: analytical studies of thematic, harmonic, stylistic and formal aspects of Classicism and early Romanticism. Topics include: 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. Topics will be explored through analysis of a range of set works and through the study of composers including Haydn, Mozart, Beethoven, Schubert, Schumann and Berlioz.

Tutorials - reinforcement of lecture material through exercises, discussion and expanded repertoire listening.

Aural - further 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. Aural is divided into five progressive streams for varying skill levels and areas of particular development.

MUSCURE 2006

Western Music in Theory & Practice IIB: 1850-1950

3 units - semester 2

2 x 1 hour lectures, 1 hour tutorial, 1 hour aural per week (4 hours total)

Available for Non-Award Study

Prerequisite: MUSCURE 2005

Incompatible: MUSCURE 2002

Assessment: theory - assignments 40%, history - essay 25%, repertoire listening test 15%, aural - as required for stream/level 20%

History - Idea and Ideology in late C19th and early C20th music.

Lectures: An exploration of aesthetic, intellectual and ideological trends in art and popular music from Richard Wagner to WWII.

Theory & Analysis- Lectures: Analytical studies of thematic, harmonic, stylistic and formal aspects of late C19th- and C20th music. Topics will include chromatic harmony; the progressive expansion and subsequent dissolution of tonality; use of folk and modal materials, atonality and 12-tone composition.

Tutorials: Reinforcement of lecture material through exercises, discussion, and expanded repertoire listening.

Aural: Further 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. Aural is divided into five progressive streams for varying skill levels and areas of particular development.

MUSED 2001

Music Education IIA

3 units - semester 1

1 hour lecture, 2 hour workshop per week

Restriction: music degree students only - consult relevant Academic Program Rules

Incompatible: 5553

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

Restriction: music degree students only - consult relevant Academic Program Rules

Prerequisite: MUSED 2001

Incompatible: 5553

Assessment: woodwind methodology journal & practical demonstration 30%; essay 20%, journals of improvisation & composition 20% each; article review 10%

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

Restriction: music degree students only - consult relevant Academic Program Rules

Incompatible: 5553

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 tutorial per week

Assessment: assignment 30%, 2000 word essay 40%, exam 30%

Approaches to the cultural study of music. Investigation of the intellectual development and methods of music research drawing from Ethnomusicology and Musicology as applicable to non-western music, European classical music, popular music and music technology.

MUSST 2002 **Approaches to Music IIB**

3 units - semester 2

2 hour lecture, 1 hour tutorial per week

Prerequisite: MUSST 2001

Assessment: assignment 20%, 3000 word essay 60%, oral presentation of research 20%

Case studies and methods for understanding traditional and contemporary music and culture.

MUSST 2003 **Instrumental Music Pedagogy II**

3 units - semester 1

1 hour workshop, 1 hour tutorial per week

Restriction: music degree students only - consult relevant Academic Program Rules

Prerequisite: well-established instrumental performance skills & theoretical knowledge

Incompatible: GENMUS 2003

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 of its recognised methodologies. Tutorials in string, wind, keyboard and other instruments concentrate on instrumental specific approaches at elementary levels with a pupil-centred focus.

MUSST 2006 **Orchestration II**

3 units - semester 2

One and a half hour workshop per week

Restriction: music degree students only - consult relevant Academic Program Rules

Prerequisite: MUSCORE 1004

Incompatible: MUSCORE 1003, 7736, 4851

Assessment: participation in class 20%, folio of orchestration exercises 65%, quiz 15%

A historical study of the development of orchestration from the classical period to the present day provides the framework for the analysis of orchestral techniques, style, texture, and colour. General concepts are introduced to students as well as the analysis of specific case studies from various periods. Students work on short exercises in class. Basic understanding of instrumental capabilities and score reading skills are assumed.

MUSST 2010A/B **Studies in Composition II**

3 units - full year

1.5 hour seminar in technical studies, 1.5 hour practical workshop per week

Prerequisite: basic score reading skills

Incompatible: COMP 2001/2002

Assessment: semester 1: technical studies assignments & participation 20%, composers' workshop assignments & participation 20%; semester 2: technical studies assignments 30%, composers' workshop assignments & participation 30%

Study of the fundamentals of composition in various styles and genres with an emphasis on contemporary classical repertoire. Technical studies seminar: compositional methods and analysis (basic score reading skills will be required). Workshop: project-based composition leading to performance of students' works.

MUSST 2020 **Choral Masterworks II**

3 units - semester 1

2 hour workshop

Restriction: music degree students only - consult relevant Academic Program Rules

Assessment: 2 written assignments 30% each, essay 40%

A consideration of aspects of the Conservatorium's current opera, music theatre project, and/or major choral works.

MUSTECH 2003A/B **Music Technology II**

6 units - full year

2 x 1 hour seminars & 1 x 2 hour workshop (4 hours per week) for 12 weeks

Restriction: Music degree students only - consult relevant Academic Program Rules

Prerequisite: MUSTECH 2003A

Assessment: portfolio 75%; projects 40%

Seminars: through the practical study of software and hardware students will develop skills in the use and

application of studio and desktop music technology. This will include editors, processors, sequencers, microphones, mixing desks and recording devices used in the areas of studio, audio, MIDI, sound design (such as multimedia, film and game sound), electronic and computer music, sonic arts and media production.

Workshop: students will engage with the concepts of music technology through the development of creative, theoretical and technical skills via workshops, presentations, listening, industry focus and research.

PERF 2001A/B Accompanying II

3 units - full year

2 hour lecture/workshop per week

Restriction: music degree students: others by audition

Prerequisite: PERF 2001A

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

Restriction: music degree students only - consult relevant Academic Program Rules

Incompatible: 7255

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

Restriction: Music degree students only - consult relevant Academic Program Rules

Incompatible: 3135

Assessment: language class assignments 80%, repertoire class 20%

Repertoire class; language (Italian)

PERF 2023 Conducting IIA

1.5 units - semester 1

2 hour workshop

Restriction: music degree students only - consult relevant Academic Program Rules

Incompatible: GENMUS 2023

Assessment: 2 practical assessments of elementary conducting techniques

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.

PERF 2024 Conducting IIB

1.5 units - semester 2

2 hour workshop

Restriction: music degree students only - consult relevant Academic Program Rules

Prerequisite: PERF 2023

Incompatible: GENMUS 2024, 3833

Assessment: 2 practical assessments plus written assessments (including score preparation, ensemble arrangement, rehearsal planning and rehearsal observation and review)

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.

PERF 2500A/B Classical Performance II

9 units - full year

30 hours of tuition; 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

Restriction: music degree students only

Prerequisite: PERF 1500B

Assessment: semester 1: 25 minute technique assessment or equivalent 40%; semester 2: 35 min end of year practical exam 60%, (end of year practical exam must be passed in order to pass course)

Classical performance specialisations are available in a variety of instruments or in voice. Students must enrol in the relevant tuition class for their specialisation.

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

6 units - full year

12 hrs indiv. Tuition, Practical Study Forum 1.5 hrs per wk, technique/repertoire class, organised on instrumental/ vocal specialisation, 1.5 hrs per wk – all for 24 wks

Restriction: music degree students only - consult relevant Academic Program Rules

Prerequisite: PERF 2600A

Assessment: semester 1: teacher assessment 5%, 15 min practical assessment 35%; semester 2 - teacher assessment 5%, 20 min practical assessment 55% (end of year practical assessment must be passed in order to pass course)

Classical performance specialisations are available in a variety of instruments, or in voice. Students must enrol in the relevant tuition class for their specialisation.

Development of technique and repertoire on an instrument or voice at levels appropriate to an individual student's potential.

LEVEL III

COMP 3500A/B

Composition III

6 units - full year

.5 hour individual tuition, 1.5 hour seminar in technical studies, 1.5 hour practical workshop per week

Restriction: music degree students only - consult relevant Academic Program Rules

Prerequisite: COMP 3500A

Incompatible: COMP 3002, 4862

Assessment: folio of exercises, compositions, including recordings where possible: 50%; technical studies assignments, participation: 25%; composers' workshop assignments, 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 compositional and analysis techniques. Composers' workshop: the performance of students' compositions based on projects.

ENS 3002A/B

Jazz Choir: Level III

3 units - full year

3 hours per week, additional concert rehearsals may be required

Restriction: music degree students only - consult relevant Academic Program Rules

Prerequisite: audition

Incompatible: ENS 3001B, 5106

Assessment: ensemble achievement in rehearsals/performances, 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 jazz styles; on-going development of choral, musical and ensemble skills to a high level. Following auditions, students will be allocated to either the 'Adelaide Connection' or 'A Kind of Blue' jazz choirs.

ENS 3004A/B

Jazz Big Band: Level III

3 units - full year

3 hours per week, additional sectional & concert rehearsals may be required

Restriction: music degree students only - consult relevant Academic Program Rules

Prerequisite: audition

Incompatible: ENS 3005B, ENS 3006B, 8964

Assessment: ensemble achievement in rehearsals/performances, 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 Big Band jazz tradition. Following auditions, students will be allocated to either Big Band One, Two or Three as appropriate.

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

Restriction: priority to music degree students - consult relevant Academic Program Rules; other students may audition for limited number of places

Prerequisite: audition

Incompatible: 8163

Assessment: individual graded assessment of relevant repertoire; 100% attendance required except in cases of illness or approved leave. Further assessment information available in course outline.

Rehearsal and performance of repertoire for symphony orchestra.

ENS 3010A/B

Elder Conservatorium Wind Orchestra III

3 units - full year

3-4 hours supervised rehearsals for the Wind Ensemble, additional rehearsals for concerts may be required

Restriction: music degree students only - consult relevant Academic Program Rules

Prerequisite: audition

Incompatible: 2705

Assessment: individual graded assessment of relevant repertoire; 100% attendance required except in cases of illness or approved leave - further information in course outline

Rehearsal and performance of repertoire for wind ensemble.

ENS 3011A/B
Jazz Guitar Band: Level III

3 units - full year

3 hours per week, additional sectional & concert rehearsals may be required

Restriction: Music degree students only - consult relevant Academic Program Rules

Prerequisite: audition

Incompatible: ENS 3012B, 8964

Assessment: ensemble achievement in rehearsals/performance 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 of specialised arrangements. Following auditions, students will be allocated to Jazz Guitar Band One or Two as appropriate.

ENS 3017A/B
Percussion Ensemble III

3 units - full year

2 hours supervised rehearsals per week

Restriction: music degree students only - consult relevant Academic Program Rules

Prerequisite: audition

Incompatible: 8677

Assessment: ensemble achievement in rehearsals/performance, 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

2.5 hours classes, supervised rehearsals per week

Restriction: priority to music degree students, consult relevant Academic Program Rules - other students may audition for limited number of places

Prerequisite: audition

Incompatible: 7399

Assessment: individual graded assessment of relevant repertoire. 100% attendance required except in cases of illness or approved leave - further information in course outline

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 Conservatorium Chorale III

3 units - full year

2.5 hour rehearsal per week; plus performances as scheduled, additional rehearsals for concerts may be required

Restriction: priority to music degree students but also available to non-music students subject to audition & number of places

Prerequisite: audition

Incompatible: 5106 Large Vocal Ensemble III

Assessment: individual graded assessment of relevant repertoire; 100% attendance required except in cases of illness or approved leave - further information in course outline

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

2.5 hour rehearsal per week; plus performances as scheduled, additional rehearsals for concerts may be required

Restriction: priority to music degree students but also available to non-music students subject to audition and number of places

Prerequisite: audition

Assessment: individual graded assessment of relevant repertoire; 100% attendance required except in cases of illness or approved leave - further information in course outline

Rehearsal and performance of accompanied and unaccompanied chamber 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, plus performances as scheduled, additional concert rehearsals may be required

Restriction: priority to music degree students but also available to non-music students subject to audition and number of places

Prerequisite: audition

Assessment: individual graded assessment of relevant repertoire; 100% attendance required except in cases of illness or approved leave - further information in course outline

Rehearsal and performance of accompanied and unaccompanied choral works for female voices 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

1 hour workshop, 1 hour unsupervised rehearsals per week; 5 hours supervised rehearsals per semester

Restriction: music degree students or by audition

Prerequisite: ENS 2031

Incompatible: 9050

Assessment: satisfactory attendance at workshops, participation in rehearsals, performances, end of semester practical exam

Rehearsal and performance of works for chamber ensemble (i.e. one person to a part). This may include works prepared in Early Music Workshop, Brass Ensemble, Percussion Ensemble and Guitar Ensemble.

ENS 3031 Chamber Music IIIB

1.5 units - semester 2

1 hour workshop, 1 hour unsupervised rehearsals per week; 5 hours supervised rehearsals per semester

Restriction: music degree students or by audition

Prerequisite: ENS 3030

Incompatible: 9050

Assessment: satisfactory attendance at workshops, participation in rehearsals, performances, end of semester practical exam

Rehearsal and performance of works for chamber ensemble (i.e. one person to a part). This may include works prepared in Early Music Workshop, Brass Ensemble, Percussion Ensemble and Guitar Ensemble.

GENMUS 3005 Music, Media & Contemporary Society III

3 units - semester 2

1 x 3 hour lecture per week

Incompatible: GENMUS 3005, 9801/5307, 4293/8324

Assessment: essay 40%, exam 60%

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 2

1 x 3 hour lecture per week

Prerequisite: ability to play/read music not a requirement

Incompatible: GENMUS 3005, 9801/5307, 4293

Assessment: essay 40%, exam 60%

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 3011 Village Voices: Greenwich Village in the 1960s III

3 units - semester 1

1 x 3 hour lecture per week

Restriction: Level II or III students in any program - ability to read music/play an instrument not required

Available for Non-Award Study

Assessment: 2,500 word essay 60%, exam 40%

This course will explore one of the most culturally fertile and vibrant eras of recent times (the 1960s) by focussing on a location (Greenwich Village, New York) that was a hub of artistic experimentation and collaboration, against a background of social change and political turmoil. The course will explore the emergence of new art forms - both 'high art' and popular - and the dynamic interactions between artists in different disciplines, with a particular focus on music.

Topics include: The Avant Garde: John Cage, Morton Feldman, Edgard Varese, Merce Cunningham, Robert Rauschenberg; Poetry in Action: political activism in the work of Bob Dylan and Allen Ginsberg; Less is More: minimalism in the arts and music: Phil Glass, Steve Reich, La Monte; Young, Phil Niblock, Sol LeWitt, Jasper Johns, Robert Morris, Donald Judd; Happenings, Fluxus and Conceptual Art: Allan Kaprow, George Maciunas, George Brecht, Philip Corner, Jonas Mekas, Harry Smith; Pop Art and Art Rock: Andy Warhol, The Velvet Underground, Lou Reed, The Fugs; Jazz at the Village Vanguard: Bill Evans, Miles Davis, Ornette Coleman, Cecil Taylor.

GENMUS 3012 Village Voices: Greenwich in the 1960s III (Arts)

6 units - semester 1

1 x 3 hour lecture per week

Restriction: Level II or III students in any program - ability to read music/play an instrument not required

Available for Non-Award Study

Assessment: 3,500 word essay 60%; 1,500 word essay 20%; Exam 40%

This course will explore one of the most culturally fertile and vibrant eras of recent times (the 1960s) by focussing on a location (Greenwich Village, New York) that was a hub of artistic experimentation and collaboration, against a background of social change and political turmoil. The course will explore the emergence of new art forms - both 'high art' and popular - and the dynamic interactions between artists in different disciplines, with a particular focus on music.

Topics include: The Avant Garde: John Cage, Morton Feldman, Edgard Varese, Merce Cunningham, Robert Rauschenberg; Poetry in Action: political activism in the

work of Bob Dylan and Allen Ginsberg; Less is More: minimalism in the arts and music; Phil Glass, Steve Reich, La Monte Happenings, Fluxus and Conceptual Art: Allan Kaprow, George Maciunas, George Brecht, Philip Corner, Jonas Mekas, Harry Smith; Pop Art and Art Rock: Andy Warhol, The Velvet Underground, Lou Reed, The Fugs; Jazz at the Village Vanguard: Bill Evans, Miles Davis, Ornette Coleman, Cecil Taylor.

GENMUS 3013 Music & Ideology III

3 units - semester 2

1 x 3 hour lecture per week

Restriction: Level II or III students in any program

Available for Non-Award Study

Assessment: 2,500 word essay 70%, 1,000 word annotated bibliography 30%

This course examines the impact on western art and popular music of political, cultural and religious ideologies, with particular emphasis on the twentieth century to the present day. The ability to read music or play an instrument is not required for this course. Topics to be addressed include: Precursors: Music in Plato's republic, The Council of Trent, Mozart and Freemasonry; Richard Wagner: His dalliance with the political Right and later appropriation by Nazism; Shostakovich and socialist realism; The Congress for Cultural Freedom; The Avant-garde and French Cultural Politics; Woody Guthrie, Bob Dylan and the 1960s protest movement; Cornelius Cardew and Anti-imperialism; Midnight Oil and the political empowerment of Australian rock music; The role of music in contemporary Christian worship.

GENMUS 3014 Music & Ideology III (Arts)

6 units - semester 2

1 x 3 hour lecture per week

Restriction: Level II or III students in any program

Available for Non-Award Study

Assessment: 3,500 word essay 50%, 1,500 word essay 30%, 1,000 word annotated bibliography 20%

This course examines the impact on western art and popular music of political, cultural and religious ideologies, with particular emphasis on the twentieth century to the present day. The ability to read music or play an instrument is not required for this course. Topics to be addressed include: Precursors: Music in Plato's republic, The Council of Trent, Mozart and Freemasonry; Richard Wagner: His dalliance with the political Right and later appropriation by Nazism; Shostakovich and socialist realism; The Congress for Cultural Freedom; The Avant-garde and French Cultural Politics; Woody Guthrie, Bob Dylan and the 1960s protest movement; Cornelius Cardew and Anti-imperialism; Midnight Oil and the political empowerment of Australian rock music; The role of music in contemporary Christian worship.

GENMUS 3026A/B Perspectives in Music Technology III

3 units - full year

2 x 1 hour seminar per week/12 weeks

Restriction: priority to music degree students - consult relevant Academic Program Rules - other students may audition for limited number of places

Prerequisite: GENMUS 3026A

Assessment: papers/presentations 50%, exams 50%

Seminar 1: Cultural and historical analysis of new technologies and music. Areas examined include critical models, cultural industry and products, the philosophy of sound, new media and new modes of music/sound representation.

Seminar 2: Specific scientific analysis and understanding of innovative sound and music technologies. This includes perception and understanding of signal manipulation, new processing, interface and instrument building.

JAZZ 3000A/B Jazz Performance III

9 units - full year

1 hr individual tuition p/w -24 wks; jazz forum (using small jazz ensembles) 1.5 hrs p/w; technique/repertoire class (master class): organised by instrumental/vocal specialisation 1 hr p/w; small jazz ensemble

Restriction: music degree students only - consult relevant Academic Program Rules

Prerequisite: JAZZ 2000B

Incompatible: 7054, 3395

Assessment: semester 1 - 30 min mid year practical exam with a technical focus 20%, Small Jazz Ensemble 20%; semester 2 - final 45 min practical exam/recital 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

Restriction: music degree students only - consult relevant Academic Program Rules

Prerequisite: JAZZ 2006B

Incompatible: 8075

Assessment: ongoing assignments 40%, end of semester exams (20% written, 40% practical)

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. Principles and practice of "Free Jazz".

JAZZ 3600A/B **Practical Study III: Jazz**

6 units - full year

12 hours individual tuition/24 wks, 1 hr performance class per week; 1.5 hrs jazz performance forum per week, 1 hr supervised small jazz ensemble workshop (laboratory) per week/24 wks

Restriction: music degree students only - consult relevant Academic Program Rules

Prerequisite: JAZZ 2006B

Incompatible: 7268

Assessment: sem 1: 15 min mid-year assessment 20%, teacher's report 5%, ensemble laboratory 10%; sem 2: teacher's report 5%, 25 min prac. assessment 50%, ensemble laboratory 10% (end of year prac 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 hour performance class particular to their major study.

MUSCURE 3002 **Music in Context IIIA: Jazz**

3 units - semester 1

1 hour theory lecture, 2 hour tutorial, 1 hour jazz arranging lecture per week

Restriction: music degree students only - consult relevant Academic Program Rules

Prerequisite: MUSCURE 2003, MUSCURE 2004, JAZZ 2007B

Incompatible: 4838

Assessment: theory (weekly assignments & tests 25%, exam 75%) 50%, jazz arranging (small assignments 100%) 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).

MUSCURE 3003 **Music in Context IIIB: Jazz**

3 units - semester 2

1 hour theory lecture, 2 hour tutorial, 1 hour jazz arranging lecture per week

Restriction: music degree students only - consult relevant Academic Program Rules

Prerequisite: MUSCURE 3002

Incompatible: 4838

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

MUSCURE 3005 **Western Music in Theory & Practice III:** **Music since 1950**

3 units - semester 1

2 x 1 hour lectures, 1 hour tutorial and 1.5 hour workshop per week

Restriction: Level III music students only

Available for Non-Award Study

Prerequisite: MUSCURE 2005/2006

Incompatible: MUSCURE 3001, MUSCURE 3004

Assessment: theory assignments 30%, history essay 30%, repertoire listening test 25%, careers workshop assignments 15%

The history component of this course will explore the aesthetic, social, cultural, intellectual and ideological trends in music from 1950 to the present, both internationally and in Australia.

The theory lectures will include analytical studies of music including but not limited to: serialism and post-serialism, chance and indeterminacy, minimalism and complexity, computer music and free improvisation. The development of new theoretical and analytical approaches will also be discussed, together with the implications for composition, performance and listening.

Tutorials will approach music from both historical and theoretical perspectives, reinforcing lecture material through practical exercises, discussion and repertoire listening. The careers workshop will involve leading music industry figures who will address topics related to the Australian music industry, including career options, arts funding, job applications and interview techniques, and accounting procedures.

MUSCORE 3999A/B
Jazz Theory for Music Education III

3 units - full year

1 hour theory lecture, 1 hour tutorial per week

Restriction: Music Education students only

Prerequisite: MUSCORE 2004

Assessment: theory: weekly assignments, tests 25%, exam 75%

Extensive study of chords, scales and modes and their relationships; research of standard harmonic progression and standard tunes; advanced chord substitution and polytonality.

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.

MUSED 3001
Music Education IIIA

3 units - semester 1

1 hour lecture, 2 hour workshop per week

Restriction: music degree students only - consult relevant Academic Program Rules

Prerequisite: MUSED 2001/2002

Incompatible: 5364

Assessment: strings methodology journal & practical demonstration 30%, essay 30%, curriculum assignments 40%

String instrument methodology involving learning about the orchestral string family, gaining experience in writing for and playing string 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

Restriction: music degree students only - consult relevant Academic Program Rules

Prerequisite: MUSED 2001/2002

Incompatible: 5364

Assessment: brass methodology journal & practical demonstration 30%; curriculum assignments and presentations 70%

Brass instrument methodology involving learning about the brass family, gaining experience in writing for and playing brass 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 Educ. Level II), 1 lecture per week

Restriction: music degree students only - consult relevant Academic Program Rules

Incompatible: 5364

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

Restriction: music degree students only - consult relevant Academic Program Rules

Prerequisite: MUSED 3001

Incompatible: 5364

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.

MUSED 3005
Primary Music Curriculum

3 units - semester 1

1 x 3 hour workshop per week

Restriction: Bachelor of Music Education students only

Assessment: curriculum project 50%, observation journal 20%, teaching resources 30%

This course provides the opportunity for students to pursue a substantial undergraduate level research project tailored to their specific needs. The topic will be chosen by the student in consultation with the course coordinator and other relevant members of Conservatorium staff. The project will be related to the student's specific musical interests in the fields of performance, composition, music technology or musicology and will build on the historical knowledge and analytical and theoretical skills already gained during previous semesters of study. Students should discuss a possible research project with the course coordinator before enrolling in this course.

MUSST 3001
Approaches to Music III

3 units - semester 1

2 hour lecture/discussion, 1 hour workshop per week

Restriction: only available to students enrolled in a music degree -consult relevant Academic Program Rules

Prerequisite: MUSST 2002

Assessment: assignment 20%, 3000 word essay 60%, oral presentation of research 20%

Continued development of research concepts and methods applied to case studies from traditional and contemporary music and culture.

MUSST 3002 Advanced Music Seminar IIIB

3 units - semester 2

2 hour seminar

Assessment: essay or research/creative project equiv 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: Composing for film.

MUSST 3003 Aboriginal Music in Australia II/III

3 units - semester 1

2 hour seminar

Assessment: essay or research/creative project appropriate to topic, seminar presentation

This course introduces students to a range of contemporary and traditional forms of Indigenous musical performance. Emphasis is placed on cultural as well as musical aspects of songs and performance, including the importance of Indigenous performance both within local communities and for Australian society at large. Featured topics include ceremonial songs and dances of Arnhem Land, the Central Desert, and other remote communities; Indigenous popular music of urban, pastoral and remote communities; the use of Indigenous elements in work by non-Indigenous composers; and relevant links between these different types of music.

MUSST 3004 Instrumental Music Pedagogy III

3 units - semester 2

1 hour workshop, 1 hour tutorial per week

Restriction: music degree students only - consult relevant Academic Program Rules

Prerequisite: MUSST 2003 or equiv prior knowledge & experience

Incompatible: GENMUS 3004

Assessment: written analysis 40%, teaching practice 60%

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.

MUSST 3005 Foundation for Honours III: Music Studies

3 units - semester 2

2 hour seminar

Assessment: assignment appropriate to student's major area of interest 30%, 3000 word essay 60%, oral presentation of research 10%

Further studies of approaches to researching music and scholarly presentation of outcomes. It provides foundations for honours level work in composition, ethnomusicology, musicology, music education, music technology and performance.

MUSST 3010A/B Studies in Composition III

3 units - full year

1.5 hour seminar in technical studies, 1.5 hour practical workshop per week

Prerequisite: basic score reading skills

Incompatible: COMP 3001/3002 Practical Study: Composition III

Assessment: semester 1: Technical studies assignments & participation 20%, composers' technical studies assignments & participation 20%; semester 2: Technical studies assignments & participation 30%, composers' workshop assignments and participation 30%

Study of the fundamentals of composition in various styles and genres with an emphasis on contemporary classical repertoire. Technical studies seminar: compositional methods and analysis (basic score reading skills will be required). Workshop: project-based composition leading to performance of students' works.

MUSST 3012 The String Quartets of Bartok III

3 units - semester 2

2 hours seminar

Restriction: music degree students only

Assessment: 5000 word seminar paper

The six String Quartets of Bela Bartok are universally acclaimed as being amongst the greatest achievements in the musical repertory. The course will touch on all six of these Quartets but will focus in particular depth on numbers 4, 5 and 6 including - the influence of Eastern European folk idioms, structural symmetry, manipulation of interval cells, transformation of fold based rhythms. Detailed reference to the scores will be required.

MUSST 3014 Rhythm in the 20th Century III

3 units - semester 2

2 hours seminar

Restriction: music degree students only

Assessment: 5000 word seminar paper

The twentieth century witnessed an explosion in different approaches towards the composition of musical rhythm. Of all the aspects of traditional music theory rhythm has been the most neglected. This course tries to redress the balance: the aspects of rhythm that will be examined include those of relevance to the classical and jazz worlds.

The following composers will be considered: Stravinsky, Bartok, Messiaen, Ives, Carter, Reich, Riley, Lutoslawski, Ligeti, Nancarrow.

MUSST 3020 **Choral Masterworks III**

3 units - semester 1
2 hour workshop

Restriction: music degree students only - consult relevant Academic Program Rules

Assessment: 2 written assignments (30% each); essay 40%

A consideration of aspects of the Conservatorium's current opera, music theatre project, and/or major choral works.

MUSTECH 3003A/B **Music Technology III**

6 units - full year

2 x 1 hour seminar and 1 x 1 hour workshop (4 hours per week) for 12 weeks

Restriction: Music degree students only

Prerequisite: MUSTECH 3003A

Assessment: portfolio 75%, projects 25%

Seminars: through the practical study of software and hardware students will develop skills in the use and application of studio and desktop music technology. This will include editors, processors, sequencers, microphones, mixing desks and recording devices used in the areas of studio, audio, MIDI, sound design (such as multimedia, film and game sound), electronic and computer music, sonic arts and media production.

Workshop: students will engage with the concepts of music technology through the development of creative, theoretical and technical skills via workshops, presentations, listening, industry focus and research.

PERF 3003A/B **Stagecraft III**

3 units - full year

2 hour workshop per week, 1 hour movement class

Prerequisite: : PERF 2003A/B

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

Restriction: music degree students only - consult relevant Academic Program Rules

Prerequisite: PERF 2004B

Incompatible: 8434

Assessment: repertoire 20%, language - class assignments 40%, final exam 40%

Repertoire class, language (German).

PERF 3010 **Accompanying III**

3 units - semester 1

2 hour lecture/workshop per week

Restriction: music degree students: others by audition

Prerequisite: PERF 2001B or audition

Assessment: practical assessment, 2000 word 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 3023 **Conducting IIIA**

1.5 units - semester 1

2 hour workshop

Restriction: music degree students only - consult relevant Academic Program Rules

Prerequisite: PERF 2024

Incompatible: GENMUS 3024, 5328

Assessment: 2 practical assessments plus written assignments (including score preparation, rehearsal planning, repertoire study and rehearsal observation & review)

Instrumental ensemble techniques. Continued development of specific skills and techniques for working with orchestras, concert bands and other instrumental ensembles; 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.

PERF 3024 **Conducting IIIB**

1.5 units - semester 2

2 hour workshop

Restriction: music degree students only - consult relevant Academic Program Rules

Prerequisite: PERF 3023

Incompatible: GENMUS, 5328

Assessment: 2 practical assessments plus written assignments (including score preparation, rehearsal planning, repertoire study and rehearsal observation & review)

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.

PERF 3500A/B **Classical Performance III**

9 units - full year

30 hours tuition; Classical Performance Forum 1.5 hours per wk, technique/repertoire class, organised on instrumental/ vocal specialisation, 1.5 hours per wk – both for 24 wks

Restriction: music degree students only

Prerequisite: PERF 2500B Classical Performance II part 2

Assessment: semester 1: 30 min. technique assessment or equivalent 40%; semester 2: 45 min end of year practical exam 60% (end of year practical exam must be passed in order to pass course)

Classical performance specialisations are available in a variety of instruments or in voice. Students must enrol in the relevant tuition class for their specialisation.

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**

6 units - full year

12 hours tuition; Practical Study Forum 1.5 hours p/w, technique/ repertoire class, organised according to instrumental/ vocal specialisation, 1.5 hours p/w - both for 24 wks

Restriction: music degree students only - consult relevant Academic Program Rules

Prerequisite: PERF 3600A Practical Study III: Performance part 1

Incompatible: any Level III Performance course worth 6 units

Assessment: semester 1 - teacher assessment 5%, 15 min practical assessment 35%; semester 2 - teacher assessment 5%, 25 min practical assessment 55% (end of year practical assessment must be passed in order to pass course)

Classical performance specialisations are available in a variety of instruments, or in voice. Students must enrol in the relevant tuition class for their specialisation.

Development of technique and repertoire on an instrument or voice at levels appropriate to an individual student's potential.

HONOURS

ETHNO 4003A/B **Honours Ethnomusicology (BMus)**

24 units - full year

Restriction: 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.

ETHNO 4004A/B **Honours Ethnomusicology (BA)**

24 units - full year

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 4010AB **Honours Composition**

24 units - full year

Restriction: approved honours music students only

Prerequisite: see Program Rule 6.5

Assessment: variety of assessment modes, depending on 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.

MUSED 4001A/B **Music Education IV**

3 units - full year

2 hours/week workshop (24 hours per year scheduled around teaching practice blocks in sem 1 & 2)

Restriction: music degree students only - consult relevant Academic Program Rules

Prerequisite: Music Education IIIB

Assessment: curriculum assignment/s 50%, project 50%

Classroom music curriculum studies for senior secondary level (Years 11 and 12), including SACE, IB and VET music studies. Current developments in arts education policies. Professional issues including ethics, copyright and policies.

MUSED 4002A/B **Music Education Project IV**

3 units - full year

12 x 1 hour workshop

Prerequisite: MUSED 3004, MUSED 3002

Assessment: assignments 50%, arrangement 25%, essay 25%

The course seeks to further develop ensemble direction and arranging skills, and to provide opportunities to evaluate conducting and arranging skills of self and others. The course seeks to extend knowledge of playing standards of published repertoire either for school ensembles or for individual instrument families.

Workshop topics include: advanced arranging techniques; rehearsal management, ensemble techniques and conducting skills. Fieldwork will involve observation of at least 4 different ensembles. Where appropriate, students will be encouraged to participate whilst observing each ensemble, to assist the conductor with any sectional rehearsals, and to conduct at least one piece with each ensemble.

MUSICED 4006A/B **Honours Music Education**

24 units - full year

Restriction: 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), 12,000 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 4007A/B **Honours Musicology (BA)**

24 units - full year

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.

MUSICOL 4011AB **Honours Musicology (BMus)**

24 units - full year

Restriction: 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 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 4001A/B **Honours Music Technology**

24 units - full year

Restriction: approved honours music students only

Prerequisite: see Program Rule 6.5

Assessment: a variety of assessment modes, depending on the choice of topics. Creative work may be submitted on CD or DVD, through live performance or installation. (All components must be passed to pass the course.)

A program of seminars and/or individual supervision in the theory and practice of music technology. Students will complete individual research projects in music technology that may include areas such as electronic and computer music composition; programming and software design; sound engineering and production; sound design and media; electronics; the sonic arts; instrument building. 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 from a course/component of another Music Honours program.

PERF 4005A/B Honours Performance

24 units - full year

30 hours individual tuition in performance (1 hr per wk/30 wks) supported by fortnightly performance workshops of 1.5 hrs duration - both provide emphasis on style and interpretation

Restriction: 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 2 x 3 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 4006A/B Honours Music Pedagogy

24 units - full year

Restriction: 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%, 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.

Nursing Science

LEVEL I

NURSING 1000 Human Sciences IA

6 units - semester 1

Lectures, tutorials, workshops, labs, online teaching

Assessment: to be advised

This course will introduce students to the human sciences that provide the foundation of effective nursing practice. It will be comprised of the following modules that will facilitate student learning of: (i) Human Biology

IA: the functional organisation of the body, the cell and its function, body fluids and chemistry. Homeostasis and control of the body functions. (ii) Microbiology, Immunology and Infection Control IA: classification of microbes and the basic principles of infection control. (iii) Health and Illness A: the physiological basis of health and illness, terminology, body image, sexuality and theories of health, illness and disease. Evidence based practice (EBP) and research in health care.

(iv) Medication and Management IA: safe use of medicines, legislation governing administration and prescribing, modes of administration, fundamental skills for basic drug dose calculations and nomenclature and classification systems.

NURSING 1001 Nursing Practice IA

6 units - semester 1

Workshops and clinical placement

Assessment: to be advised

This course will be comprised of the following modules:

(i) Nursing as a Profession IA: the role of nurses in the provision of health care, history and nursing knowledge. Regulation of practice, legislation governing practice, The Australian Nursing and Midwifery Council Competencies, professional codes of practice and standards of practice. (ii) Therapeutics of Clinical Nursing IA: integration of the knowledge and attitudes learned throughout the program with the skills required for effective nursing practice.

The foundation nursing skills involved in supporting patients in the activities of daily living, providing basic hygiene, principles of basic nutrition, manual handling, standard precautions and an introduction to basic life support will be practiced. Technology used in nursing care and occupational health and safety of nurses will be considered. Learning will be facilitated through workshops and clinical placements. The clinical cycle placement will be in an acute setting. (iii) Health Assessment IA: skills of interviewing, inspection, palpation, percussion and auscultation and recording vital signs. (iv) Communication and Psychosocial Care IA: effective communication between nurses and their patients and with members of the community and other health professionals. Human emotions, spirituality and death and dying. Trans-cultural nursing: cultural safety in nursing.

NURSING 1002 Human Sciences IB

6 units - semester 2

Lectures, tutorials, workshops, labs, online learning

Assessment: to be advised

This course will build on Human Sciences IA and Nursing Practice IA. It will be comprised of the following modules that will facilitate student learning of: (i) Human Biology IB: structure and function of the body using the systems approach. (ii) Microbiology, Immunology and Infection Control IB. (iii) Medication Management IB: complex concepts of pharmacokinetics in relation to nursing practice. (iv) Health and Illness B: building on student's

prior learning regarding the physiological basis of health and illness, nutrition, terminology, body image and sexuality. Student learning will be progressed regarding the theories of health, illness and disease. EBP and research in health care.

NURSING 1003 Nursing Practice IB

6 units - semester 2

Workshops and clinical placements

Assessment: to be advised

The course will be comprised of the following modules: (i) Nursing as Profession IB: ethics law, accountability and responsibility. (ii) Therapeutics of Clinical Nursing IB: this module will build on prior student learning in Therapeutics of Clinical Nursing IA with further integration of knowledge, attitudes and skills required for practice. Introduction to more complex skills required for safe and therapeutic nursing care. Students will have the opportunity to begin to learn how to practice in accordance with the ANC National Nursing Competency Standards for the Registered Nurse. Learning will be facilitated through workshops and clinical placements. The clinical cycle placement will be an acute setting. (iii) Health Assessment IB: continuing student's learning of nursing assessment. (iv) Communication and Psychosocial Care IB: building on student's learning of psychosocial care that developed from their learning in Nursing Practice IA and their experiential learning. (v) Trans-cultural Nursing IB: further concepts of cultural safety in nursing will be explored. Issues relating to providing care for Aboriginal and Torres Strait islander people and their families will be considered. The factors that need to be considered in caring for people with diverse cultures such as migrants will also be explored.

LEVEL II

NURSING 2000 Human Sciences 2A

6 units - semester 1

Lectures, tutorials and workshops

Restriction: B. Nurs students only

Prerequisite: NURSING 1000/1002

Assessment: to be advised

This course will build on the learning from Human Sciences and Nursing Practice IA & IB. It will be comprised of the following modules that will facilitate student learning: (i) Human Pathophysiology A: human pathophysiology, nursing therapeutics and treatment and health promotion relating to the cardiovascular and respiratory systems. (ii) Human Pathophysiology, nursing therapeutics and treatment and health promotion relating to endocrine, reproductive, haematological and lymphatic systems. (iii) Human Development Across the Life Span: human development conception to aging. (iv) Pharmacology and Complementary Therapies A: the pharmacological treatment of diseases using evidence based, systems approach. Natural remedies and therapies for common pathophysiological conditions.

NURSING 2001 Nursing Practice 2A

6 units - semester 1

Lectures, tutorials & clinical placement

Restriction: B.Nurs students only

Quota: 50

Prerequisite: NURSING 1001/1003

Assessment: to be advised

This course will build on the learning from Human Sciences and Nursing Practice IA & IB. It will be comprised of the following modules that will facilitate student learning of: (i) Nursing as a Profession 2A: further learning of legal and ethical issues. (ii) Therapeutics of Clinical Nursing 2A: this module will introduce students to further nursing and technological skills that when integrated with theory and professional attitudes, provide the foundation for competent nursing practice. Students will have the opportunity to begin to practice in accordance with the ANC National Nursing Competency Standards for the Registered Nurse. Learning will be facilitated through workshops and clinical placements. The Clinical Cycle will be a placement rural, paediatric, midwifery and community setting. (iii) Health Assessment 2A: this module will assist students in learning more advanced assessment skills. The recognition of abnormal finding of physical, and psychosocial assessments relating to the systems considered in Pathophysiology A & B will be explored. Basic assessment skills for specific populations will also be introduced. (iv) Communication & Psychosocial Care 2A: building on the student's learning of psychosocial care and developed from their learning in Nursing Practice IA and their experiential learning. This module will assist students to communicate effectively and provide care of people with particular needs.

NURSING 2002 Human Sciences 2B

6 units - semester 2

Lectures, tutorials and workshops

Restriction: B. Nurs students only

Prerequisite: NURSING 1000/1002

Assessment: To be advised

This course will build on previous Human Sciences and Nursing Practice courses. It will be comprised of the following modules that will facilitate student learning of: (i) Human Pathophysiology C: this topic will further facilitate student learning in human pathophysiology, nursing therapeutics and treatment and health promotion relating to the neurological, special senses: gastrointestinal systems. (ii) Human Pathophysiology D; this topic will further facilitate student learning in human pathophysiology, nursing therapeutics and treatment and health promotion relating to the urinary and renal, musculoskeletal and integumentary systems. (iii) Child & Youth Health: this module will facilitate student learning of the issues surrounding child and youth health. In particular the factors that influence the physical and social development of children and adolescents will be considered. (iv) Pharmacology & Complementary Therapies B: this module will facilitate student learning

of the pharmacology treatment of disease for common pathological conditions using evidence based, systems approach. Natural remedies and complementary therapies for pathophysiological conditions will also be considered.

NURSING 2003 Nursing Practice 2B

6 units - semester 2

Lectures, tutorials and clinical placement

Restriction: B. Nurs students only

Quota: 50

Prerequisite: NURSING 1001/1003

Assessment: to be advised

This course will build on previous Human Sciences and Nursing Practice Courses. It will be comprised of the following modules that will facilitate student learning of: (i) Nursing as a Profession 2B: this module will facilitate student learning of the legal and ethical issues surrounding professional nursing practice. This module will also assist students to continue to develop skills necessary for the planning and coordination of nursing care. (ii) Therapeutics of Clinical Nursing 2B: this module will introduce students to further nursing and technological skills that, when integrated with theory and professional attitudes, provide the foundation for competent nursing practice. Students will have the opportunity to begin to practice in accordance with the ANC National Nursing Competency Standards for the Registered Nurse. Learning will be facilitated through workshops and clinical placements. The Clinical Cycle will be placement rural, paediatric, midwifery, community and acute setting. (iii) Health Assessment 2B: this module will assist students in learning more advanced assessment skills. The recognition of abnormal finding of physical, and psychosocial assessments relating to the systems considered in Pathophysiology C & D will be explored. (iv) Communication and Psychosocial Care 2B: this module will assist students' learning of issues relating to communication and psychosocial care of children and youths and those with special needs including and those relating to the pathophysiological conditions explored in Human Pathophysiology C & D. These issues will also be discussed in relation to the particular need of indigenous people and their communities.

LEVEL III

NURSING 3000 Human Sciences 3A

6 units - semester 1

Approximately 6 Lectures and 2 Tutorials per week

Restriction: B. Nurs Students Only

Prerequisite: NURSING 2000/2002

Assessment: To be advised

This course will build on previous courses and will facilitate students' learning of nursing therapeutics for complex illnesses. It will contain the modules: Nursing Patients with Cancer, Nursing Patients with Special needs, Child & Youth Health and Integrating Nursing Theory &

Practice 3A

NURSING 3001 Nursing Practice 3A

6 units - semester 1

Approximately 2 Lectures and 2 Tutorials, Plus 24 hours of Clinical Placement per week over an extended academic year

Restriction: B. Nurs Students Only

Prerequisite: NURSING 2001/2003

Assessment: To be advised

This course will build on the human and technical skills learned in the first year of the program. It will be comprised of the following modules: Nursing as a Profession 3A, Health Assessment 3A, Therapeutics Care 3A

NURSING 3002 Human Sciences 3B

6 units - semester 2

Approximately 6 Lectures and 2 Tutorials per week

Restriction: B. Nurs Students Only

Prerequisite: NURSING 2000/2002/3000

Assessment: To be advised

This course will facilitate students' learning of complex illnesses. It will contain the modules: Nursing Critically Ill Patient, Nursing Patients in the Perioperative Setting, Nursing Patients with Mental Health Problems and Integrating Nursing Theory & Practice 3B

NURSING 3003 Nursing Practice 3B

6 units - semester 2

Approximately 2 Lectures and 2 Tutorials, Plus 24 hours of Clinical Placement per week over an extended academic year

Restriction: B. Nurs Students only

Prerequisite: NURSING 2001/2003/3001

Assessment: To be advised

This course will build on the human and technical skills learned in the first years of the program. It will be comprised of the following modules: Nursing as a Profession 3B, Health Assessment 3B, Therapeutics of Clinical Nursing 3B, Communication & Psychosocial 3B.

HONOURS

NURSING 4000AHO/BHO Honours Clinical Nursing

24 units - full year

Contact the Discipline of Nursing for course details.

Obstetrics & Gynaecology

LEVEL III

OB&GYNAE 3000 Human Reproductive Health III

6 units - semester 2

1 lecture, 3 hours problem based learning workshops and laboratory based research training per week

Restriction: B.Health.Sc, B.Psych(Hons) students; B.Sc students subject to approval by their Faculty

Prerequisite: ANAT SC 1102A/B, PATHOL 2000

Assessment: written, oral assessment 70%, peer assessment of contribution to problem based learning & retraining: must be satisfactory, exam 30%

This course presents major aspects of human reproductive biology and function and technologies. Students will obtain insights into current understanding of the developmental biology of reproduction in humans and the application of reproductive technology to human health and disease. Students will be introduced to the social, medical, scientific, moral and ethical issues associated with human reproduction and its regulation, in the control of fertility, treatment of infertility and other applications such as stem cell biology. Students will gain sufficient understanding to critically evaluate past, present and emerging methods of investigation and management of reproductive function. The topic will be introduced through focused studies of human population dynamics and the contribution of developmental biology to adult health. The biology and pathology of fertilisation, implantation, embryonic and fetal growth and development and of adaptation to pregnancy will be addressed, together with developmental programming of physiological fitness throughout life and the risk of cardiovascular and related diseases in humans. The course concludes with the influence of reproductive hormones on human behaviour. Understanding will be developed at the molecular, cellular and physiological levels, through lectures, problem-based learning and research training, involving reproduction and relevant technologies.

HONOURS

OB&GYNAE 4000AHO/BHO Honours Obstetrics and Gynaecology

24 units - full year

Restriction: appropriately qualified B.Hlth.Sc, B.Med.Sc, B.Sc students or permission of Head of Discipline

Assessment: to be advised at start of year, includes literature review, research seminars & thesis

Students requiring further information concerning syllabuses and work required for the Honours degree are advised to consult the Head of Discipline as early as possible. Potential projects are listed on the discipline web site.

Oenology

LEVEL I

OENOLOGY 1000EX/1000NW Introductory Grape and Wine Knowledge

3 units - semester 1

External: residential school during mid semester break; Internal: Average 5 hours per week, including lectures, tutorials &/or practicals - some practical components held in mid semester break

Restriction: Bachelor/Dip. Wine Marketing students

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/1001NW Vineyard and Winery Operations I

3 units - semester 2

External: 5 day residential school; Internal: Average 6 hours per week including lectures, practicals &/or tutorials - practicals may be held in mid semester break

Restriction: Bachelor/Dip. Wine Marketing students

Prerequisite: OENOLOGY 1000NW/1000EX

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

Average 6 hours per week including lectures, practicals &/or tutorials; some practical components held in mid semester break

Restriction: B.Sc. (Viticulture), B.Oenology students only

Assessment: written exam & 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 is provided for Viticulture and Oenology students covering some aspects in greater scientific depth

LEVEL II

OENOLOGY 2004EX/ 2004NW Vineyard and Winery Operations II

4 units - semester 1

External: Residential school during mid semester break ; Internal: 2 lectures per week, practical component in mid semester break

Restriction: Bachelor/Dip. Wine Marketing students

Prerequisite: OENOLOGY 1001NW/1001EX

Assessment: semester written exams, practical tests & 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 2022WT Sensory Studies

4 units - semester 2

Average 7 hours per week including lectures, tutorials, &/or practicals

Assumed Knowledge: BIOLOGY 1202 or 1102, OENOLOGY 1018NW, CHEM 1100 or CHEM 1101, CHEM 1102 or CHEM 1201

Assessment: written & practical exams, written exercises, group oral presentations

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 2024WT Introductory Winemaking

4 units - semester 2

Average 7 hours per week including lectures, practicals & visits to winery sites

Assumed Knowledge: BIOLOGY 1202, BIOLOGY 1101/, OENOLOGY 1018NW, CHEM 1100 /1101, CHEM 1102/1201

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 wines. Introduction to wine stabilisation and maturation processes.

OENOLOGY 2025WT Microbiology for Viticulture and Oenology

4 units - semester 1

Average 7 hours per week including lectures, tutorials, &/or practicals

Assumed Knowledge: BIOLOGY 1202 or BIOLOGY 1102, OENOLOGY 1018NW or equivs

Assessment: written exam (mid-year & final), practical exercises, practical exams (theory & practice)

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

10 hours per week / 1 semester or equiv. on project

Assessment: literature review, research proposal, seminar

Enrolment subject to the approval of the Head of Discipline.

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 3003WT **Wine Packaging and Quality Management**

3 units - semester 2

Average 6 hours per week including lectures, tutorials, &/or practicals

Prerequisite: OENOLOGY 3007WT, OENOLOGY 3047WT

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. Visits will be made to commercial plants.

OENOLOGY 3007WT **Stabilisation and Clarification**

3 units - semester 1

Average 6 hours per week including lectures, tutorials, &/or practicals

Restriction: B.Oenology students

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 3016WT **Cellar and Winery Waste Management**

3 units - semester 1

Average 6 hours per week including lectures, tutorials, practicals &/or field work

Restriction: B.Oenology students

Assessment: final exam, practical reports & tutorial papers

Vintage planning; occupational health and safety, winery record keeping; microbial control, cellular hygiene; winery waste management, environmental management.

OENOLOGY 3033WT **Industry Experience (Oenology) A**

4 units - semester 1

10 weeks work experience

Prerequisite: OENOLOGY 7010WT, OENOLOGY 7047WT, OENOLOGY 7022WT

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 receipt 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 3037WT **Distillation, Fortified and Sparkling Winemaking**

3 units - semester 2

Average 6 hours per week including lectures, tutorials &/or practicals - some practical may be held in mid semester break

Prerequisite: OENOLOGY 2024WT, OENOLOGY 2022WT, OENOLOGY 3016WT

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 sparkling wine styles. Sensory evaluation of spirits, fortified and sparkling wines.

OENOLOGY 3045WT **Advances in Oenology**

3 units - semester 2

Average 6 hours per week including lectures, tutorials, practicals &/or field work

Assumed Knowledge: OENOLOGY 2024WT

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

Average 6 hours per week including lectures, tutorials, practicals &/or field work

Restriction: B.Oenology students

Prerequisite: OENOLOGY 2024WT, OENOLOGY 2022WT

Assessment: exam, written work, practical reports, group oral 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 3047WT Winemaking at Vintage

3 units - semester 1

Average 6 hours per week including lectures, tutorials, &/or practicals

Restriction: B.Oenology students

Corequisite: OENOLOGY 3016WT

Assessment: to be advised

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.

HONOURS

OENOLOGY 4002AWT/BWT Honours Oenology

12 units - full year

40 Hours a week

Prerequisite: Credit or higher in two relevant Level III courses as approved by the Head of Discipline

Assessment: thesis, seminars, remainder as deemed appropriate to the student's program

This course comprises a substantial research project of the student's choosing on a topic acceptable to the Discipline of Wine and Horticulture, two seminars on that topic, and coursework, essays or other assignments deemed appropriate to the individual student's honours program.

OENOLOGY 4004AWT/BWT Honours Wine Science

24 units - full year

40 hours per week for 40 weeks

Prerequisite: Credit or higher in relevant Level III courses as approved by the Head of Discipline

Assessment: Thesis, seminars, remainder as deemed appropriate to the student's program

This course comprises a substantial research project of the student's choosing in a topic acceptable to the head of School of Agriculture, Food and Wine, two seminars on that topic, and coursework, essays or other assignments deemed appropriate to the individual student's honours program.

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

Restriction: BOH students only

Corequisite: DENT 1202AHO/BHO, DENT 1203AHO/BHO, DENT 1204AHO/BHO

Assessment: tests, practical assessments, assignments, written exams (OSCA), presentations

This stream aims to introduce students to the oral cavity. It also provides an introduction to the areas which support the practice of an oral health practitioner. 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: dental terminology and morphology, preventive dentistry, cariology, fluoride, developmental psychology, behavioural science in dentistry, and nutrition.

ORALHLTH 1202AHO/BHO Clinical Practice IOH

8 units - full year

12 hours per week including class meetings/clinical/practical sessions

Restriction: BOH students only

Corequisite: DENT 1201AHO/BHO, DENT 1203AHO/BHO, DENT 1204AHO/BHO

Assessment: tests, practical assessment, assignments, journals, viva voces & written exams

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

Restriction: BOH students only

Corequisite: DENT 1201AHO/BHO, DENT 1202AHO/BHO, DENT 1204AHO/BHO

Assessment: assignments, tutorial & 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 orofacial regions. 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
 Restriction: BOH students only
 Corequisite: DENT 1201AHO/BHO, DENT 1202AHO/BHO, DENT 1203AHO/BHO
 Assessment: written reports, assignments, written exams and groups projects

This stream aims to provide the student with a range of skills to support their role as an oral health professional. Topics include orientation to learning, computing, evidence-based dentistry and communication. Orientation to learning will introduce the student to concepts and skills which will underpin study and lifelong learning in professional practice. It will introduce the student to the schools education and assessment philosophy, learning and teaching, group interaction and team building. Computing will provide the student with a basic understanding of computing fundamentals, electronic record keeping, literature searches and types of search engines. Evidence-based dentistry will provide students with an appreciation of the nature and scope of statistics applied to dentistry. It will provide the students with an understanding of different study designs used in dental research and a working knowledge of basic statistics, interpretation and data analysis. Communication topics include oral and written communication, modes of communication, concept mapping, and oral health education. Behavioural science will introduce the student to skills required for managing patients of different ages and the approaches necessary to facilitate positive health behaviours.

LEVEL II

ORALHLTH 2200HO
Second Annual Oral Health Examination

ORALHLTH 2201AHO/BHO
Dental & Health Science IOH

4 units - full year
 7.5 hours per week including class meetings/learning laboratories/tutorials
 Restriction: BOH students only
 Prerequisite: DENT 1201A/BHO, DENT 1200HO
 Corequisite: DENT 2202AHO/BHO, DENT 2203AHO/BHO, DENT 2204AHO/BHO
 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 consolidates the role of the oral health practitioner in community dental health issues and develops the knowledge of cariology, prevention and health promotion. Topics include: cariology, fluoride, community health and health promotion.

ORALHLTH 2202AHO/BHO
Clinical Practice IOH

12 units - full year
 18 hours per week including laboratory/clinical sessions
 Restriction: BOH students only
 Prerequisite: DENT 1202A/BHO, DENT 1200HO
 Corequisite: DENT 2201AHO/BHO, DENT 2203AHO/BHO, DENT 2204AHO/BHO
 Assessment: observation, journals, viva voces, practical exams, written exams

This stream aims to build upon Clinical Practice I with regard to the consolidation of preventive, 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 oral health practice.

Topics include clinical dental hygiene practice, operative dentistry (theory & practical), pedodontics, clinical dental therapy practice and periodontics.

ORALHLTH 2203AHO/BHO
Human Biology IOH

4 units - full year
 3 hours per week class meetings/research-based practical sessions/tutorials
 Restriction: BOH students only
 Prerequisite: DENT 1203A/BOH, DENT 1200HO
 Corequisite: DENT 2201AHO/BHO, DENT 2202AHO/BHO, DENT 2204AHO/BHO
 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 oral health practitioner 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 IOH

4 units - semester 1
 3 hours per week
 Restriction: BOH students only
 Prerequisite: DENT 1200HO
 Corequisite: DENT 2201AHO/BHO, DENT 2202AHO/BHO, DENT 2203AHO/BHO
 Assessment: assignments, tests, written exams, journal reviews

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, epidemiology and social context of dentistry.

ORALHLTH 2205AHO/BHO **Dental Hygiene Clinical Practice**

12 units - full year

19 hours per week including laboratory/clinical sessions

Restriction: Qualified Dental Therapists only

Corequisite: ORALHLTH 2203AHO/BHO

Incompatible: course advise must be received from the Dental School prior to enrolment in this course

Assessment: Observation, journals, viva voces, practical exams, written exams

This stream introduces students to clinical practice of a Dental Hygienist and provides a foundation for patient management and oral health practice as a career. Students will work through a range of clinical and laboratory based exercises centred on the provision of patient care, clinical skills and knowledge. Students work in a collaborative environment and learning will be supported by independent study and discussion of findings in class. Strong emphasis is placed on the ability to consistently apply quality assurance principles and processes in oral health practice. Topics include infection control, occupational health and safety, dental records, preventive dentistry and the management of periodontal disease, development of manual dexterity skills and applied dental hygiene practice.

LEVEL III

ORALHLTH 3200HO **Third Annual Oral Health Examination**

ORALHLTH 3201AHO/BHO **Dental & Health Science IIIIOH**

8 units - full year

3.5 hours per week including class meetings/research-based practical sessions/tutorials

Restriction: BOH students only

Prerequisite: DENT 2201A/BHO, DENT 2200HO

Corequisite: DENT3202AHO/BHO, DENT3204AHO/BHO

Assessment: assignments, tutorial & seminar presentations, OSCA, presentation patients and viva voces.

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 paedodontics, gerodontology, dental public health, panoramic radiography, early childhood caries, orthodontics, oral pathology, panoramic radiology and clinical dentistry for dental therapy practice.

ORALHLTH 3202AHO/BHO **Clinical Practice IIIIOH**

12 units - full year

16 hours per week including clinical sessions

Restriction: available to BOH students only

Prerequisite: ENT 2202A/BHO, DENT 2200HO

Corequisite: DENT 3201AHO/BHO, DENT3204AHO/BHO

Assessment: clinical practice, presentation of patient reports and viva voces

This stream aims to further develop the student's preventive, periodontal and operative role as an oral health practitioner. Topics include dental therapy practice, dental hygiene practice and clinical radiology.

ORALHLTH 3204AHO/BHO **Oral Health Elective IIIIOH**

4 units - full year

7 hours per week in semester 2

Restriction: BOH students only

Prerequisite: DENT 2200HO

Corequisite: DENT 3201AHO/BHO DENT3202AHO/BHO

Assessment: written reports, presentations

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 practitioner. 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

Restriction: B.Hlth.Sc. & B.Psych (Hons) students only

Prerequisite: ANAT SC 1102, ANAT SC 1103

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. diabetes mellitus, ischaemic heart disease, and some cancers).

LEVEL III

PATHOL 3003 **General Pathology IIIHS**

6 units - semester 1

3 lectures, 2 hour practical per week, 1 hour tutorial per fortnight

Restriction: B.Hlth.Sc., B.Sc & B.Psych (Hons) students

Prerequisite: B.Hlth.Sc. students - pass in ANAT SC 1102, ANAT SC 1103, PATHOL 2000 ; Other students - pass in one or more of: PHYSIOL 2003, ANAT SC 2104 or equivs (may be waived in special circumstances)

Assessment: exams, 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; adaptive cellular changes; healing and repair, thrombosis, embolism and infarction and neoplasia. More detailed attention is given to cardiovascular, pulmonary and gastrointestinal diseases and common cancers and the pathology is correlated with major clinical symptoms and signs. The tutorials and practical classes provide an opportunity for students to examine macroscopic and microscopic specimens illustrating the pathology covered in lectures. A background knowledge of basic anatomy, histology and physiology is expected.

PATHOL 3100 **Topics in Forensic Sciences**

3 units - semester 2

2 lectures per week

Restriction: B.Hlth.Sc., B.Sc & B.Psych (Hons) students

Prerequisite: Pass in PATHOL 3003

Assessment: exams, assignments

The aim of this course is to provide students with an overview of a variety of topics within the area of forensic sciences including pathology, toxicology, anthropology and odontology. It is not intended to provide students with a detailed knowledge of any of these areas, but rather provide insight into how they may be used to investigate crime. Topics to be covered include the changes in the body with death and decomposition; the pathology of wounds; burns; disaster victim identification; sudden death in children and adults; medical misadventure and drug related deaths. A background knowledge of basic anatomy and physiology is expected.

PATHOL 3200 **Neurological Diseases**

3 units - semester 2

2 Lectures, 2 hour practical, 1 hour large group tutorial per fortnight

Restriction: B. Hlth. Sc. & B. Psych (Hons) students

Prerequisite: B.Hlth. Sc. students - Pass in PATHOL 2000; Other Students - pass in one or more of PHYSIOL 2004, ANAT SC2104 or equiv (or approval of course coordinator)

Assessment: exams, assignments, oral presentation

The aim of this course is to provide students with an understanding of a range of diseases and conditions affecting the central and peripheral nervous systems.

General topics covered include the causes and consequences of raised intracranial pressure, headache, infections, tumours and dementia, as well as more specific disorders such as epilepsy and multiple sclerosis. Traumatic brain and spinal cord injury, stroke and the effects of alcohol and illicit drugs on the brain will also be discussed. The practical classes provide an opportunity for students to examine macroscopic and microscopic specimens illustrating selected pathologies covered in lectures.

HONOURS

PATHOL 4000A/B **Honours Pathology**

24 units - full year

Restriction: B.Med.Sc. & B.Hlth.Sc. students, or by permission of Head of Discipline

Assessment: details provided at start of academic year

Students requiring further information are advised to consult the Head of Discipline.

Pharmacology

LEVEL II

PHARM 2002 **Drugs, Chemicals and Health**

4 units - semester 1

2 lectures per week, 1 tutorial, 1 workshop per fortnight

Restriction: B.Hlth.Sci, B.Psych.(Hons) students only

Prerequisite: ANAT SC 1102A or GENETICS 1000A/B or ENV BIOL 1000A/B or equiv

Assessment: exam on lecture material, assessment test, assignments

The course introduces students to basic pharmacological 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 **Drugs, Chemicals and the Environment**

4 units - semester 2

2 lectures per week, 1 tutorial per fortnight, 1 workshop per month

Restriction: B.Hlth.Sci, B.Psych.(Hons) students only

Prerequisite: PHARM 2002

Assessment: exam on lecture material, assessment test and assignments

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 3010 Pharmacology A III

6 units - semester 1

Weekly lectures, tutorials, practical sessions

Restriction: B.Health.Sc, B.Psych(Hons), B.Sc, B.Sc.(Biomed.Sc.), B.Sc.(Biotech.) B.Sc & BE students only

Quota will apply

Prerequisite: one of: BIOCHEM 2000A/B or BIOCHEM 2001A/B, CHEM 2000A/B or CHEM 2001A/B, PHYSIOL 2003 & 2004 or PHYSIOL 2001A/B, PHARM 2002, PHARM 2003, PATHOL 2000

Incompatible: Not available to students who have passed any of: PHARM 3004, PHARM 3005, PHARM 3006

Assessment: exam on lecture material, practical reports, assessment test

The course will provide students with an understanding of how new drugs are discovered and developed. Students will also gain an understanding of drug-receptor interactions and the problems encountered during the identification and design of new chemicals with promising pharmacological actions. 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, practical sessions

Restriction: B.Health.Sc, B.Psych(Hons), B.Sc, B.Sc.(Biomed.Sc.), B.Sc.(Biotech.) students only

Quota will apply

Prerequisite: PHARM 3010

Incompatible: Not available to students who have passed any of: PHARM 3007, PHARM 3008, PHARM 3009

Assessment: exam on lecture material, practical & research reports, assessment test

Particular emphasis is given to the key factors that influence and govern the effects of drugs within the body, ranging from molecular determinants to physiological factors that control disposition of drugs within the body. In addition, students will cover topics in toxicology and selected systems pharmacology. The laboratory component of the course will provide proficiency in the design and execution of 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 4000A/B Honours Pharmacology

24 units - full year

Prerequisite: satisfactory performance in level III courses offered by Discipline of Pharmacology or acceptable alternative (subject to approval of Head of Discipline)

Assessment: to be advised at start of year

Intending candidates should consult the Honours Coordinator, Discipline of 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 Discipline. Seminar presentations and a written assignment will also be required.

Philosophy

LEVEL I

PHIL 1101 Argument and Critical Thinking

3 units - semester 1

3 contact hours per week

Available for Non-Award Study

Assumed Knowledge: ESL students are advised to consult Course Coordinator to discuss enrolment in the course

Assessment: 500 word essay & 1000 word essay 50%, 2 hour open book exam 50%

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, the pyramids, the Bermuda Triangle and alien abductions.

PHIL 1102
Mind, Knowledge and God

3 units - semester 1

3 contact hours 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? 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 2

3 contact hours per week

Available for Non-Award Study

Assessment: 1400-1800 word essay 50%, exam 50%

Our strongest opinions are opinions about right and wrong. How can such opinions be supported, and which are the best ones to have? The aim of this course is to help you to think about these questions in a clear and systematic way. The core topics of the course are the foundations of morality and the connections between morality and justice. We consider questions such as the origin of individual rights, how to deal with conflicts between different rights and how to cope with cases where respecting the rights of individuals will reduce the overall welfare of a society. Can we ever properly override the rights of individuals to promote overall welfare? Answering these questions will help us to address recent controversies about freedom of speech, censorship and laws which apparently treat citizens unequally.

PHIL 1110
Logic I: Beginning Logic

3 units - semester 2

3 contact hours 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 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 2002
Crime and Punishment

4 units - semester 2

3 contact hours per week

Prerequisite: 6 units Humanities/Social Sciences, incl. 3 units Philosophy, or 6 units Law, or alternative approved by Head of Discipline

Incompatible: PHIL 4576, PHIL 2510

Assessment: essay 50%, tutorial presentation 25%, exam 25%

Examines the philosophical bases of theories of law and criminal culpability, justification of punishment, restorative versus retributive justice, sentencing and mercy, and the doctrine of double jeopardy. Discussion will centre on specific problematic offences including dangerous driving, child abuse, drugs, and rape.

PHIL 2003
Cognitive Science: Minds, Brains and Computers

4 units - semester 2

3 contact hours per week

Prerequisite: 6 units Level I Humanities/Social Sciences incl. 3 units Philosophy; or 6 units Level I Psychology, Computer Science or Mathematics; or alternative approved by Head of Discipline

Incompatible: PHIL 3003

Assessment: essays totalling 4800 - 6000 words

This course provides an introduction to the philosophical foundations of Cognitive Science, which is a relatively new inter-disciplinary field of study that embraces aspects of philosophy, psychology, computer science and neuroscience. Topics to be discussed include: the computer as a model of the mind; classical (digital) and connectionist (analog) computational theories of cognition; the science and philosophy of perception; psychopathology, including delusions and schizophrenia; and the role of the emotions in cognition.

PHIL 2011
Moral Problems

4 units - semester 1

3 contact hours per week

Prerequisite: 6 units Level I courses in any Faculty

Incompatible: PHIL 2001, PHIL 3001, PHIL 3011

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 2013 **Philosophy of Science**

4 units - semester 1

3 contact hours per week

Prerequisite: 6 units Level I Humanities/Social Sciences incl. 3 units Philosophy, or 6 units Sciences/Health Sciences/Maths & Comp. Sc./Engineering, or alternative approved by Head of Discipline

Incompatible: PHIL 3013

Assessment: essays totalling 4800 - 6000 words

Science has a significant impact on the kind of society we live in. For this reason it is vitally important to have a clear appreciation of the nature of scientific activity. This course will examine some central issues in the contemporary philosophy of science, including: the objectivity of science, the nature of scientific method, the status of scientific knowledge, and the character of scientific explanation, including explanation in the social sciences. The course will also explore the general picture of reality that emerges from modern science, and may examine some special topics in the philosophy of science, such as the interpretation of quantum mechanics and the interpretation of special relativity.

PHIL 2021 **Justice & Power: Contemporary Political Philosophy**

4 units - semester 1

3 contact hours per week

Prerequisite: 6 units Level I Humanities/Social Sciences incl. 3 units of Philosophy

Incompatible: PHIL 3021

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 1

3 contact hours per week

Prerequisite: 6 units Level I courses in any faculty

Incompatible: PHIL 3023

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 in this course, 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 2025 **Philosophy of Art: Knowledge, Emotion & Intention**

4 units - semester 2

2 hour lecture, 1 tutorial per week

Prerequisite: 6 units in any Faculty

Incompatible: PHIL 3025

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 2027

Metaphysics: Identity, Time & Freedom

4 units - semester 1

3 contact hours per week

Prerequisite: 6 units in any Faculty, incl. 3 units in Philosophy

Incompatible: PHIL 3027

Assessment: 2 essays (2400-3000 words each)

Metaphysics is the branch of philosophy that asks the most general questions about the nature of reality. It deals with the nature of what there is, abstracting away from the particular details of goings on in our world, in an attempt to undercover the underlying structure of fundamental classification and of reality. Traditionally, metaphysics has been concerned with issues such as the identity of objects through time, the existence of abstract entities such as properties, the freedom of the will, the existence of God, the reality of time and the nature of causation. In this course, we will approach some of these issues by examining several discussions of them in contemporary analytic philosophy. Most of the readings we will refer to are therefore by contemporary philosophers even though, occasionally, we will look at discussions of metaphysical issues in ancient philosophy and modern philosophy.

PHIL 2028

Existentialism

4 units - semester 2

3 contact hours per week

Prerequisite: 6 units in any Faculty, incl. 3 units in Philosophy

Incompatible: PHIL 3028

Assessment: 2 essays (2400-3000 words each)

The course examines some of the concerns characteristic of the philosophical current known as 'existentialism' in a broad sense that includes philosophers such as Friedrich Nietzsche, Jean-Paul Sartre and Albert Schopenhauer. The most distinctive focus of existentialism, at least in its popular representations, is the nature and meaning of human existence. Existentialist philosophers raise anew the question of the meaning of existence because they find traditional (primarily, but not exclusively, Christian) answers to it inadequate. Any conception of the nature and meaning of human existence has implications for a number of more specific questions, such as the nature of the self, the relation with others, and ethical ideals such as altruism and self-creation. The course will focus on two prominent existential philosophers: Friedrich Nietzsche and Jean-Paul Sartre. Both philosophers attempt, in their own distinctive ways, to address the question of the meaning of life. The central concern of Nietzsche's philosophy is nihilism and the conditions of its overcoming. The main problem of Sartre's philosophy is the absurdity of existence and its practical implications.

PHIL 2110

Logic II: Intermediate Logic

4 units - semester 2

4 contact hours per week

Prerequisite: PHIL 1110 or PURE MTH 2000 or MATHS 1011 or MATHS 1012 or COMP SCI 1008 or COMP SCI 1009, or permission of Head of Discipline

Incompatible: PHIL 3110

Assessment: 2 take-home tests, 2 hour exam (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 than Logic I, and considers issues in philosophy of logic. Content: semantics of truth-functions, proof theory and semantics of classical propositional logic and predicate logic, many-valued logics, modal logic and possible worlds, philosophy of logics, paradoxes.

LEVEL III

PHIL 3002

Crime and Punishment

6 units - semester 2

3 contact hours per week

Prerequisite: 8 units Level II Humanities/Social Sciences, incl. 4 units Philosophy

Incompatible: PHIL 4756, PHIL 2510

Assessment: essay 50%, tutorial presentation 25%, exam 25%

This course examines the philosophical bases of theories of law and criminal culpability, justification of punishment, restorative versus retributive justice, sentencing and mercy, and the doctrine of double jeopardy. Discussion will centre on specific problematic offences including dangerous driving, child abuse, drugs, and rape.

PHIL 3003

Cognitive Science: Minds, Brains and Computers

6 units - semester 2

3 contact hours per week

Prerequisite: 8 units Level II Humanities/Social Sciences incl. 4 units Philosophy; or 8 units Level II Psychology, Computer Science or Mathematics; or alternative approved by Head of Discipline

Incompatible: PHIL 2003

Assessment: essays totalling 7500 - 9000 words

This course provides an introduction to the philosophical foundations of Cognitive Science, which is a relatively new inter-disciplinary field of study that embraces aspects of philosophy, psychology, computer science and neuroscience. Topics to be discussed include: the computer as a model of the mind; classical (digital) and connectionist (analog) computational theories of cognition; the science and philosophy of perception; psychopathology, including delusions and schizophrenia; and the role of the emotions in cognition.

PHIL 3011 **Moral Problems**

6 units - semester 1

3 contact hours per week

Prerequisite: 8 units Level II courses from any faculty

Incompatible: PHIL 2001, PHIL 3001, PHIL 2011

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 3013 **Philosophy of Science**

6 units - semester 1

3 contact hours per week

Prerequisite: 8 units Level II Humanities/Social Sciences incl. 4 units Philosophy, or 8 units Level II Sciences/Engineering/Math & Comp. Sc./Health Sc. or alternative approved by Head of Discipline

Incompatible: PHIL 2013

Assessment: essays totalling 7500 - 9000 words

Science has a significant impact on the kind of society we live in. For this reason it is vitally important to have a clear appreciation of the nature of scientific activity. This course will examine some central issues in the contemporary philosophy of science, including: the objectivity of science, the nature of scientific method, the status of scientific knowledge, and the character of scientific explanation, including explanation in the social sciences. The course will also explore the general picture of reality that emerges from modern science, and may examine some special topics in the philosophy of science, such as the interpretation of quantum mechanics and the interpretation of special relativity.

PHIL 3021 **Justice & Power: Contemporary Political Philosophy**

6 units - semester 1

3 contact hours per week

Prerequisite: 8 units Level II Humanities/Social Sciences incl. 4 units of Philosophy

Incompatible: PHIL 2021

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 1

3 contact hours per week

Prerequisite: 8 units Level II in any faculty

Incompatible: PHIL 2023

Assessment: essays totalling 7500 - 9000 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 3025 **Philosophy of Art: Knowledge, Emotion & Intention**

6 units - semester 2

2 hour lecture, 1 tutorial per week

Prerequisite: 6 units in any Faculty incl. 3 units Philosophy

Incompatible: PHIL 2025

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.

PHIL 3027

Metaphysics: Identity, Time & Freedom

6 units - semester 1

3 contact hours per week

Prerequisite: 8 Level II/III units, incl. 4 units in Philosophy

Incompatible: PHIL 2027

Assessment: 2 essays (3800-4500 words each)

Metaphysics is the branch of philosophy that asks the most general questions about the nature of reality. It deals with the nature of what there is, abstracting away from the particular details of goings on in our world, in an attempt to uncover the underlying structure of fundamental classification and of reality. Traditionally, metaphysics has been concerned with issues such as the identity of objects through time, the existence of abstract entities such as properties, the freedom of the will, the existence of God, the reality of time and the nature of causation. In this course, we will approach some of these issues by examining several discussions of them in contemporary analytic philosophy. Most of the readings we will refer to are therefore by contemporary philosophers even though, occasionally, we will look at discussions of metaphysical issues in ancient philosophy and modern philosophy.

PHIL 3028

Existentialism

6 units - semester 2

3 contact hours per week

Prerequisite: 8 Level II/III units, incl. 4 units in Philosophy

Incompatible: PHIL 2028

Assessment: 2 essays (3800-4500 words each)

The course examines some of the concerns characteristic of the philosophical current known as 'existentialism' in a broad sense that includes philosophers such as Friedrich Nietzsche, Jean-Paul Sartre and Albert Schopenhauer. The most distinctive focus of existentialism, at least in its popular representations, is the nature and meaning of human existence. Existentialist philosophers raise anew the question of the meaning of existence because they find traditional (primarily, but not exclusively, Christian) answers to it inadequate. Any conception of the nature and meaning of human existence has implications for a number of more specific questions, such as the nature of the self, the relation with others, and ethical ideals such as altruism and self-creation. The course will focus on two prominent existential philosophers: Friedrich Nietzsche and Jean-Paul Sartre. Both philosophers attempt, in their own distinctive ways, to address the question of the meaning of life. The central concern of

Nietzsche's philosophy is nihilism and the conditions of its overcoming. The main problem of Sartre's philosophy is the absurdity of existence and its practical implications.

HONOURS

PHIL 4401A/B

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 of 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, but with different entry requirements. 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

Available for Non-Award Study

Assessment: exam, practical work, essay

This course aims to present a survey of astronomical science, including highlights of modern exploration and the open questions in astronomy. Topics include the formation and characteristics of the Solar System, including the planets and minor members of the system; Telescopes; the Sun; the birth, life and death of stars; galaxies and dark matter; active galaxies and quasars; Big Bang cosmology. There are no formal prerequisites for the course, though mathematical literacy at year 10 level is assumed.

PHYSICS 1003

Physics IHE

3 units - semester 2

3 lectures, 1 tutorial per week; 5 x 3 hour practicals

Restriction: B. E. students only

Prerequisite: C&ENVENG 1001, MATHS 1011 or MATHS 1013 (on application to Head of Physics)

Corequisite: MATHS 1012 or MATHS 1011 (on application to Head of Physics)

Incompatible: PHYSICS 1100, PHYSICS 1200

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, 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

Available for Non-Award Study

Assessment: essays, tutorial work

This course is non-mathematical in character and no previous knowledge of physics is assumed. It is taught in the style of the humanities and social sciences. 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, 1 tutorial per week; 3 hours experimental/observational work per fortnight

Restriction: B.Sc.(Space Science & Astrophysics) students only

Incompatible: PHYSICS 1002

Assessment: exam, practical work, essay

This course aims to present a survey of astronomical science, including highlights of modern exploration and the open questions in astronomy. Topics include the formation and characteristics of the Solar System, including the planets and minor members of the system; Telescopes; the Sun; the birth, life and death of stars;

galaxies and dark matter; active galaxies and quasars; Big Bang cosmology.

PHYSICS 1008

Physics Principles & Applications I

3 units - semester 1

3 lectures, 1 tutorial per week, 5 x 3 hour practical sessions

Restriction: Students without SACE Stage 2 Physics or with a Subject Achievement score of less than 13 or equiv

Available for Non-Award Study

Incompatible: PHYSICS 1100, PHYSICS 1101

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

Available for Non-Award Study

Prerequisite: SACE Stage 2 Physics, Math.Studies, Specialist Maths - in exceptional circumstances, high achieving students without Specialist Maths may be granted exemption on application to Head of Physics

Corequisite: MATHS 1011 - students may be permitted to enrol in Physics IA concurrently with MATHS 1013 on application to Head of Physics

Incompatible: PHYSICS 1101, PHYSICS 1008

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. 5 x 3 hour practicals

Available for Non-Award Study

Prerequisite: SACE Stage 2 Physics Subject Achievement score of at least 13 (or equiv), Mathematical Studies - other students may apply to Head of Physics for exemption

Incompatible: PHYSICS 1100, PHYSICS 1008

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 1100 Physics IA and PHYSICS 1200 Physics IB. 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 three-hour practicals

Available for Non-Award Study

Prerequisite: PHYSICS 1100 Physics IA (Conceded Pass or better)

Corequisite: MATHS 1012 - students may be permitted to enrol in Physics IB concurrently with MATHS 1011 on application to Head of Discipline

Assumed Knowledge: MATHS 1011 or MATHS 1013 & PHYSICS 1100

Incompatible: PHYSICS 1201, PHYSICS 1003

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; 5 x 3 hour practicals

Available for Non-Award Study

Prerequisite: Either SACE Stage 2 Physics Subject Achievement score of at least 13 (or equiv) and Mathematical Studies or PHYSICS 1008 - other students may apply to Head of Physics for exemption

Assumed Knowledge: PHYSICS 1101 or PHYSICS 1008

Incompatible: PHYSICS 1200

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 oscillations, waves and sound, 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

Available for Non-Award Study

Prerequisite: PHYSICS 1100 & PHYSICS 1200, or Pass in MATHS 1012 or MATHS 2004 - other students may apply to Head of Physics for exemption

Corequisite: APP MTH 2000, APP MTH 2002

Assessment: written exam, tests, assignments

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

Available for Non-Award Study

Prerequisite: Pass in MATHS 1012 or MATHS 2004, APP MTH 2000, APP MTH 2002 - other students may apply to Head of Physics for exemption

Assumed Knowledge: PHYSICS 1100, PHYSICS 1200

Incompatible: PHYSICS 2000A/B in 2002 and 2003

Assessment: exam, tests

Scalar and vector field concepts, derivatives of fields, line, surface and volume integrals, curvilinear coordinates, Gauss' and Stokes' theorems. Gauss' law, index notation, rotations, tensors, Poisson's equations, electrostatics and method of images, boundary value problems.

PHYSICS 2004 Introductory Quantum Mechanics and Applications II

2 units - semester 1

24 lectures, 7 tutorials

Available for Non-Award Study

Prerequisite: PHYSICS 1100, PHYSICS 1200 Physics IB, Pass in either MATHS 1012 Mathematics IB or MATH 2004 - other students may apply to Head of Physics for exemption

Corequisite: APP MTH 2000, APP MTH 2002

Incompatible: PHYSICS 2100

Assessment: Written exam, 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, Schrodinger 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.

PHYSICS 2008 Physics, Ideas and Society II

4 units - semester 2

2 lectures, 1 tutorial per week

Available for Non-Award Study

Prerequisite: 6 units Level I

Incompatible: PHYSICS 1005

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, 3 hour practical per week, 1 tutorial per fortnight

Prerequisite: PHYSICS 1100 & PHYSICS 1200, PHYSICS 2100, Pass in either MATHS 1012 or MATHS 2004 - other students may apply to Head of Discipline for exemption

Corequisite: PHYSICS 2200

Assessment: exam, laboratory work, 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 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. Practical work in polarisation of light, laser diodes, modes of lasers and interferometers, optical fibres.

PHYSICS 2010 Space Science and Astrophysics II

4 units - semester 2

3 lectures per week, 1 tutorial per fortnight, 20 hours experimental work

Restriction: B.Sc. (Space Sc. & Astrophysics) and B.E. (Aerospace Eng.) students only

Prerequisite: PHYSICS 1003 & C&ENVENG 1001, or PHYSICS 1100 & PHYSICS 1200; either MATHS 1012 MATHS 2004

Assumed Knowledge: PHYSICS 1002 or PHYSICS 1007

Assessment: exam, assignments, practical work

Protostars and star formation; stellar interiors and stellar evolution; 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, 4 hours practical per week

Available for Non-Award Study

Prerequisite: PHYSICS 1100, PHYSICS 1200, Pass in either MATHS 1012 or MATH 2004 - other students may apply to Head of Physics for exemption

Corequisite: APP MTH 2000,; APP MTH 2002

Incompatible: PHYSICS 2004

Assessment: written exam, tests, 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 hours practical per week

Available for Non-Award Study

Prerequisite: PHYSICS 1100 & PHYSICS 1200, APP MATH 2002 & APP MATHS 2000 -other students may apply to Head of Physics for exemption

Assumed Knowledge: PHYSICS 2100 Physics IIA, PHYSICS 2001 Classical Mechanics II

Incompatible: PHYSICS 2211

Assessment: written exam, tests & practical work

Thermodynamics: equilibrium, 1st and 2nd laws, entropy, cyclic thermodynamic processes, applications. Introduction to Statistical physics. Electromagnetism: Circuits, Electrostatics, Magnetic Field of Steady Currents, Magnetic Properties of Matter, Time-Varying Magnetic Fields, Electromagnetic Induction, Maxwell's Equations and Electromagnetic Waves. Practical work: electromagnetism and projects.

PHYSICS 2201 Astrophysics II

2 units - semester 2

3 lectures per week; 1 tutorial per fortnight for eight weeks

Available for Non-Award Study

Prerequisite: PHYSICS 1100 & PHYSICS 1200 or PHYSICS 1003 & C&ENVENG 1001 & ELEC ENG 1005; Pass in either MATHS 1012 or MATHS 2004

Assumed Knowledge: PHYSICS 1002 or PHYSICS 1007

Incompatible: PHYSICS 2010

Assessment: exams, assignments

Protostars and star formation; stellar interiors and atmospheres; stellar evolution; white dwarfs and neutron stars; introduction to the heliosphere.

PHYSICS 2211 Electromagnetism II

2 units - semester 2

24 lectures, 7 tutorials

Available for Non-Award Study

Prerequisite: PHYSICS 1100 & PHYSICS 1200; APP MTH 2002 & APP MATH 2000 - other students may apply to Head of Physics for exemption

Incompatible: PHYSICS 2000A/B except 2002 and 2003, PHYSICS 2200

Assessment: written exam, tests

Circuits, Electrostatics, Magnetic Field of Steady Currents, Magnetic Properties of Matter, Time-Varying Magnetic Fields, Electromagnetic Induction, Maxwell's Equations and Electromagnetic Waves.

LEVEL III

PHYSICS 3000 Computational Physics III

2 units - semester 1

2 lectures, 1 hour tutorial per week

Available for Non-Award Study

Prerequisite: PHYSICS 2100 or PHYSICS 2004, APP MATHS & APP MATH 2002 - other students may apply to Head of Physics for exemption

Assumed Knowledge: APP MTH 1000 or COMP SCI 1008 or equiv

Assessment: Assignments, exam

This is a hands-on course which provides an introduction to computational methods in solving problems in physics. It teaches programming tactics, numerical methods and their implementation, together with methods of linear algebra. 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

3 lectures, approx. 1 tutorial per week

Available for Non-Award Study

Prerequisite: PHYSICS 2100 & PHYSICS 2200; APP MATHS 2000 & APP MATH 2002 - other students may apply to Head of Physics for exemption

Assumed Knowledge: PHYSICS 2002

Incompatible: PHYSICS 3018, PHYSICS 3019

Assessment: exam, continuous assessment of tutorial work

Electrostatics and potential, magnetostatics and vector potential, Maxwell's equation, electromagnetic boundary conditions, electromagnetic wave equation, waveguides, energy in electromagnetism, Poynting's theorem. Interaction of electromagnetic waves with media, Lorentz electron oscillator, reflection and refraction at interfaces, multi-layer dielectric coatings, polarisation and birefringence. Solutions of 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.

PHYSICS 3002 Experimental Physics III

3 units - semester 2

8 hours practical work per week

Prerequisite: PHYSICS 2100 & PHYSICS 2200 - other students may apply to the Head of Physics for exemption

Assessment: Laboratory work, formal report on selected experiment, open & closed book tests

Laboratory experiments in selected areas including atomic and nuclear physics, optics and electromagnetism, plus a practical analogue electronics course.

PHYSICS 3004 Quantum Mechanics IIIA

3 units - semester 1

3 lectures, approx. 1 tutorial per week

Available for Non-Award Study

Prerequisite: PHYSICS 2100 or PHYSICS 2004; APP MATHS 2000 & APP MATH 2002 - other students apply to Physics Head for exemption

Assumed Knowledge: PHYSICS 2002

Incompatible: PHYSICS 3004

Assessment: exam, assignments, tests

This course develops concepts in quantum mechanics such that the microscopic properties of matter can be understood from a fundamental point of view. Topics include: review of the Schrodinger equation, operators, eigenfunctions, compatible observables; Fourier methods and momentum space; Ehrenfest's theorem; one-dimensional scattering and bound states, unitary S-matrix; Periodic systems, energy bands; harmonic oscillator in one and three dimensions; Dirac bra-ket notation, Uncertainty Principle; orbital angular momentum and spin, hydrogen atom, identical particles, atoms; perturbation theory.

PHYSICS 3006

Advanced Dynamics and Relativity

3 units - semester 2

3 lectures, approx. 1 tutorial per week

Available for Non-Award Study

Prerequisite: PHYSICS 2002 or PHYSICS 2000A/B in 2002 or 2003; PHYSICS 2001, APP MTH 2000, APP MTH 2002 - other students may apply to the Head of Physics for exemption

Assessment: assignments, 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 3009

Statistical Mechanics III

2 units - semester 1

2 lectures per week, 1 tutorial per fortnight

Available for Non-Award Study

Prerequisite: PHYSICS 1100 & PHYSICS 1200, APP MTH 2000 & APP MTH 2002 - other students may apply to Head of Physics for exemption

Assumed Knowledge: PHYSICS 2100 or PHYSICS 2004; PHYSICS 2200

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 are discussed.

PHYSICS 3013

Astrophysics III

2 units - semester 1

2 lectures per week, approx. 1 tutorial per fortnight

Available for Non-Award Study

Prerequisite: PHYSICS 2100 & PHYSICS 2200 - other students may apply to Head of Physics for exemption

Assessment: written exam, tutorials, marked assignments

A survey of the universe at all scales and wave lengths/energies. Stellar astrophysics and studies of the interstellar medium and magnetic fields. Binary systems, x-ray binaries, active galactic nuclei. Gamma-ray astrophysics; radio and x-ray astronomy. Introductory cosmology.

PHYSICS 3014

Atmospheric & Environmental Physics III

2 units - semester 2

2 lectures per week, approx. 1 tutorial per fortnight

Available for Non-Award Study

Prerequisite: PHYSICS 2100 & PHYSICS 2200 - other students may apply to Head of Physics for exemption

Assessment: written exam, marked assignments

The course is an introduction to the physics of planetary atmospheres, with a focus on the earth's atmosphere including environmental and climate issues. Topics will include radiative transfer in the sun-earth system, thermodynamics of the atmosphere, cloud physics, atmospheric motions and circulation, the role of aerosols and minor constituents, such as water vapour, carbon dioxide and ozone, in determining climate, and the impact on the environment of anthropogenic actions

PHYSICS 3016

Education in Physics with Industrial Cooperation A

0 units - semester 2

4-5 months full-time work on a project in industry - sem 2, Yr 3

Prerequisite: Credit or above in PHYSICS 2100 or PHYSICS 2200, 12 units Level III courses

A program whereby students enrolled in third year B.Sc, B.Sc. (Optics & Photonics) or B.Sc. (Space Science & Astrophysics) who have achieved an average credit level in Levels I & II and at least credit in PHYSICS 2100 & 2200, 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 Course Coordinator and the industrial partner. A written report must be prepared on each project and approved by both the industrial partner and the Course Coordinator. The performance of each student will be monitored by the Course Coordinator. Unsatisfactory work reports or course grades may result in the student being required to leave the EPIC program.

PHYSICS 3017

Education in Physics with Industrial Cooperation B

0 units - semester 1

4-5 months full-time work on a project in industry - sem 1, Yr 4

Prerequisite: Credit or above in PHYSICS 2100 or PHYSICS 2200, 12 units Level III courses

A program whereby students enrolled in third year B.Sc, B.Sc. (Optics & Photonics) or B.Sc. (Space Science & Astrophysics) who have achieved an average credit level in Levels I & II and at least credit in PHYSICS 2100 & 2200 Physics IIA/B, 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 Course Coordinator and the industrial partner. A written report must be prepared on each project and approved by both the industrial partner and the Course Coordinator. The

performance of each student will be monitored by the Course Coordinator. Unsatisfactory work reports or course grades may result in the student being required to leave the EPIC program.

PHYSICS 3018 Electromagnetism III

2 units - semester 1

24 lectures, 4 tutorials

Prerequisite: PHYSICS 2100 & PHYSICS 2200 or PHYSICS 2211 & PHYSICS 2004; APP MATHS 2000 & APP MATH 2002 - other students may apply to Head of Physics for exemption

Assumed Knowledge: PHYSICS 2002

Incompatible: PHYSICS 3001, PHYSICS 3019

Assessment: exam, continuous assessment of tutorial work

Electrostatics and potential, magnetostatics and vector potential, Maxwell's equation, electromagnetic boundary conditions, electromagnetic wave equation, waveguides, energy in electromagnetism, Poynting's theorem.

Interaction of electromagnetic waves with media, Lorentz electron oscillator, reflection and refraction at interfaces.

PHYSICS 3019 Physical Optics III

2 units - semester 1

24 lectures, 4 tutorials

Restriction: B.E.(Electrical & Electronic)/B.Sc(Physics) students only

Prerequisite: PHYSICS 2100 & PHYSICS 2200, APP MATHS 2000 & APP MATH 2002

Assumed Knowledge: PHYSICS 3018 or equiv

Incompatible: PHYSICS 3001, PHYSICS 3018

Assessment: exam, continuous assessment of tutorial work

Maxwell's equations, EM waves in free space, plane waves; Maxwell's equations in matter; waveguides, dispersion, interaction of electromagnetic waves with media, Lorentz electron oscillator, reflection and refraction at interfaces, multi-layer dielectric coatings, polarization and birefringence.

Solutions of 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.

PHYSICS 3020 Photonics III

2 units - semester 2

2 lectures per week, approx. 1 tutorial per fortnight

Available for Non-Award Study

Prerequisite: PHYSICS 2100 & PHYSICS 2200; PHYSICS 2009 - other students may apply to the Head of Physics for exemption

Assumed Knowledge: PHYSICS 3018 or PHYSICS 3001

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, frequency

stabilisation, pulsed lasers, gain switching, Q-switching, injection-seeding, mode-locked lasers. Review of common lasers, optical fibres, microstructured optical fibres, fibre Bragg gratings, fibre sensors, optical materials, photonic crystals.

PHYSICS 3022 Quantum Mechanics IIIB

2 units - semester 2

2 lectures per week, 1 tutorial per fortnight

Available for Non-Award Study

Prerequisite: PHYSICS 3004, PHYSICS, APP MTH 2000 & APP MTH 2002 - other students may apply to Head of Physics for exemption

Assumed Knowledge: PHYSICS 2004, or PHYSICS 2100

Incompatible: PHYSICS 3005

Assessment: exam, tutorial work, tests

This course extends the formalisation and applicability of quantum mechanics to include time dependent phenomena and various approximation methods. Radiation, external fields. Dirac's formulation of quantum mechanics, measurement, Bell's inequality. Symmetry and conservation laws, time-reversal, rotations and angular momentum, L-S and j-j coupling in atoms and nuclei. Scattering, partial waves, phase shift analysis, S-matrix.

PHYSICS 3230 Photonics IIIB

3 units - semester 2

2 lectures per week, approx. 1 tutorial per fortnight, 3 hour practical per week

Restriction: BSc (Optics and Photonics) students only

Prerequisite: PHYSICS 2100 & PHYSICS 2200; PHYSICS 2009

Assumed Knowledge: PHYSICS 3018

Incompatible: PHYSICS 3020

Assessment: exam, marked assignments, laboratory work & formal report

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, frequency stabilisation, pulsed lasers, gain switching, Q-switching, injection-seeding, mode-locked lasers. Review of common lasers, optical fibres, microstructured optical fibres, fibre Bragg gratings, fibre sensors, optical materials, photonic crystals. Practical work in laser modulation, laser stabilisation, optical fibres, characteristics of semi conductors.

PHYSICS 4000A/B Honours Physics

24 units - full year

Prerequisite: PHYSICS 4000A

Assessment: Project report, written exams, assignments

Potential participants are advised to see Head of Physics as soon as possible, preferably before enrolling for Level III courses. In exceptional circumstances it is possible to take honours over two years - see B.Sc. Academic Program Rule 5.7.4

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 and general relativity, electrodynamics, experimental methods, gauge field theories, 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 also undertakes a substantial experimental or theoretical research project on which a report is prepared. Full details may be obtained by application to the Head of Physics.

PHYSICS 4001A/B Honours Mathematical Physics

24 units - full year

Prerequisite: PHYSICS 4001A

Assessment: exams, project

Students considering this course should see the Head of Physics as soon as possible, preferably before enrolling in third year.

The lecture program is determined from year to year. Students will be required to make a selection from courses offered by the Discipline of 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 may 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.

PETROL 4000A/B Honours Petroleum Geology and Geophysics

24 units - full year

Prerequisite: B.Sc. majoring in Geology and/or Geophysics, or equiv.

Assumed Knowledge: background in some/all of: sedimentology, stratigraphy, structural geology & exploration geophysics; combinations of third year geoscience courses with other appropriate science or maths courses may be acceptable

Assessment: 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.au (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.

Physiology

LEVEL II

PHYSIOL 2003 Human Physiology IIA: Heart, Lungs and Circulation

4 units - semester 1

3 lectures, 1 tutorial, 4 hours 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

Incompatible: PHYSIOL 2101 or previously offered courses with significant overlap

Assessment: written exams, practical assessments and tutorial performance

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 & 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 or Biology
Assumed Knowledge: PHYSIOL 2003; Level I Chemistry, Biology, Physics

Incompatible: PHYSIOL 2201 or previously offered courses with significant overlap

Assessment: written exams, practical assessments and tutorial performance

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

Restriction: BSc (Biomedical Science) students only

Prerequisite: 6 units of Level 1 Chemistry, BIOLOGY 1101/1102, BIOLOGY 1201

Assumed Knowledge: Level 1 Physics, Chemistry and Biology

Incompatible: PHYSIOL 2003 or previously offered courses with significant overlap

Assessment: end of semester written exam, practical assessments and tutorial performance

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 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. The project is supported by workshops that lead to a deeper understanding of experimental techniques and data processing. 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

Restriction: BSc (Biomedical Science) students only

Prerequisite: 6 units Level 1 Chemistry, BIOLOGY 1101/1102, BIOLOGY 1201

Assumed Knowledge: PHYSIOL 2101, Level 1 Biology, Chemistry & Physics

Incompatible: PHYSIOL 2003 or previously offered courses with significant overlap

Assessment: end of semester written exam, practical assessments and tutorial performance

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 complete the human-based research project commenced in first semester and present the results in the format of a research journal article and a conference poster. The project is supported by workshops that lead to a deeper understanding of experimental techniques and data processing. 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, 4 hour practical, 1 hour workshop per week

Available for Non-Award Study

Prerequisite: 8 units of Level 2 Physiology

Incompatible: PHYSIOL 3102 or equiv

Assessment: 3 written exams, research project - components include laboratory performance, background literature survey, research proposal & critique of published scientific manuscript

Advanced Systems Physiology consists of lecture and practical streams. 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: cardiovascular health and disease, of energy balance intra and intercellular signalling pathways and integrative physiology. An added dimension to many topics is the physiological basis of the development of common diseases and changes that occur with aging. The research practical stream, Physiology in Action, involves a research project supported by a series of workshops and tutorials which are designed to develop your research skill base, including analysis and interpretation of results and to improve skills related to communicating results. 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 3001 Neurobiology III

6 units - semester 1

3 lectures, 4 hours practical, 1 hour workshop per week

Available for Non-Award Study

Prerequisite: 8 units Level II Physiology

Incompatible: PHYSIOL 3102 equiv

Assessment: exams, essays, research project

This course consists of 2 parallel 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 sensation and the neural control of human movement. Issues that will be covered in depth include special senses and advanced neuromuscular physiology with emphasis on the peripheral and central control of movement, biological rhythms and sleep. 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. The workshops and tutorials including topics related to developing a research project and composing a formal proposal.

PHYSIOL 3003 Neurobiology III (Med Surg)

6 units - semester 1

11 hours per week

Restriction: Medicine Surgery Students Only

Available for Non-Award Study

Minimum 18 enrolments required to offer this course, maximum - 36

Prerequisite: Pass at 2nd year final exam of MBBS

Incompatible: PHYSIOL 3001, PHYSIOL 3002 or equiv

Assessment: exams, essays, research project, oral presentations

This course consists of 3 parallel streams. The Advanced Neurobiology lecture stream of this course broadly encompasses the study of central nervous system function with emphasis on sensation and the neural control of human movement. Issues that will be covered in depth include special senses and advanced neuromuscular physiology with emphasis on the peripheral and central control of movement, biological rhythms and sleep. For the practical stream, students work in groups on a semester-length research project involving human subjects 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. In the tutorials students 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 3004 Advanced Systems Physiology III (Med Surg)

6 units - semester 2

11 hours per week

Restriction: Medicine Surgery Students Only

Minimum 18 enrolments required to offer this course, maximum - 36

Prerequisite: Pass at 2nd year final exam of MBBS

Incompatible: PHYSIOL 3000, PHYSIOL3102 or equiv

Assessment: exams, essays, research project, oral presentations

This course consists of 3 parallel streams, and 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: cardiovascular health and disease, of energy balance intra- and intercellular signalling pathways and integrative physiology. An added dimension to many topics is the physiological basis of the development of common diseases and changes that occur with aging. For the practical stream, students work in groups on a semester-length research project involving human subjects 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. In the tutorials students 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 3102 Human Physiology IIIA (Biomedical Science)

6 units - semester 1

3 lectures, 1 hour practical, 4 hour tutorial per week

Restriction: BSc (Biomedical Science) students only

Prerequisite: 8 units Level 2 Human Physiology

Incompatible: PHYSIOL 3001 or equiv

Assessment: Written exams for lecture streams; research project includes written assignments, evaluation of laboratory performance; for tutorial, 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, which is identical to that of Neurobiology III. The latter is derived in the Biomedical Research Unit, which consists of a practical project based in a working research laboratory and a research-based tutorial component. In the tutorials students 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 lectures, 1 hour practical, 1 hour tutorial per week

Restriction: BSc (Biomedical Science) students only

Prerequisite: 8 units of Level 2 Physiology

Incompatible: PHYSIOL 3000 or equiv

Assessment: written exams for lecture streams; research project includes written assignment, evaluation of laboratory performance; 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, which is identical to that of Advanced Systems Physiology. The latter is derived in the Biomedical Research Unit, which consists of a practical project based in a working research laboratory and a research-based tutorial component. In the tutorials students 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 4000A/B
Honours Physiology

24 units - full year

Restriction: approved honours students only

Prerequisite: Performance in Level III courses offered by School of Molecular and Biomedical Science at standard satisfactory to Head of Discipline. Students from other schools/institutions who have passed suitable Level III courses may be considered

Assessment: presentation of research seminar & research poster; laboratory performance; critique of scientific manuscript, written project synopsis, 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

Average 6 hours per week including lectures, tutorials, &/or practicals

Assumed Knowledge: SACE Stage I Chemistry

Assessment: exam, practicals

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.

PLANT SC 2003RW
Microbiology and Invertebrate Biology

4 units - semester 2

Average 7 hours per week including lectures, tutorials, &/or practicals

Assumed Knowledge: BIOLOGY 1202, BIOLOGY 1102/1102, APP ECOL 1004RW/BIOLOGY 1103RW, APP ECOL 1003RW/BIOLOGY 1203RW

Assessment: written exam, practical exercises, project work, tutorials

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

Average 7 hours per week including lectures, tutorials, &/or practicals

Assumed Knowledge: BIOLOGY 1202, BIOLOGY 1102/1102, APP ECOL 1004RW/BIOLOGY 1103RW, APP ECOL 1003RW/BIOLOGY 1203RW

Assessment: written exam, practical exercises, tutorials

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

Average 6 hours per week including lectures, tutorials, &/or practicals

Assumed Knowledge: BIOCHEM 2106WT or equiv

Assessment: practical reports, presentation, 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

Average 6 hours per week including lectures, tutorials, &/or practicals

Prerequisite: PLANT SC 2001WT, ENV BIOL 2006 VITICUL 2002WT or APP ECOL 1003RW/BIOLOGY; or equiv

Assessment: exam, practical reports, reviews, essays

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 and genetic control of adaptation to nutrient limitations in soils.

PLANT SC 3009WT Plant Molecular Biology

6 units - semester 2

3 lectures, tutorial, 4 hours practicals per week, 4 hours non-contact project time

Assumed Knowledge: BIOCHEM 2106, ANIML SC 2029WT or BIOCHEM 2000A/B or equiv at credit level

Assessment: practicals, tutorial projects, research planning & review, final exam

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 3022WT Research Project Plant and Pest Science

3 units - semester 1 or 2

Average 10 hours workload per week of supervised project work

Prerequisite: relevant Level II course offered by Plant and Food 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 Food 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.

PLANT SC 3030AEX/BEX Integrated Weed Management

3 units - full year

Modules at students' pace

Prerequisite: PLANT SC 3030AEX

Assessment: assignments during 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.

PLANT SC 3130WT

Plant Pathology

3 units - semester 1

Average 6 hours per week including lectures, tutorials, &/or practicals

Assumed Knowledge: PLANT SC 2004WT, OENOLOGY 2025WT, PLANT SC 2003RW, MICRO 2004, ENV BIOL 2006

Incompatible: APP ECOL 3011WT, APP ECOL 3005WT

Assessment: written exam, practical exercises, critical review, mini-internship

A senior level course designed to provide sufficient background in plant pathology for graduates to take employment in plant disease control or to progress into postgraduate study in plant pathology or related disciplines. The course will consider the recognition of biotic plant diseases and how they are defined; evaluate economic factors; describe loss assessment; and describe the use of disease forecasting for decision making in management. The components of plant disease systems will be considered separately (pathogen, host and environment). Specifically, the course will examine the biology, taxonomy and disease cycle of plant pathogens; host resistance strategies; the physiology of the diseased plant; both inherent and introduced genetic factors; environmental factors; and the role of vectors in the spread of disease. This information will be integrated to illustrate the complex interactions required for the onset and progress of disease epidemics. Descriptors of epidemics and the strategy of using epidemiology as a basis for the management of disease by manipulating the components of epidemics will lead into an evaluation of the methods available for control of plant diseases. Case studies will be used where appropriate. Practical skills in working with fungi, bacteria, nematodes and viruses will be acquired both in the field and the laboratory. Experience in evaluation of research and report writing will be an outcome of the course.

PLANT SC 3131WT

Integrated Pest Management A

3 units - semester 1

Average 6 hours per week including lectures, tutorials, &/or practicals

Assessment: exam, practical exercises, assignments

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.

PLANT SC 3200WT

Plant Breeding

3 units - semester 1

6 hrs a week, 5 day interstate field trip during mid semester break

Assumed Knowledge: ANIML SC 2029WT or APP ECOL 1004RW/ BIOLOGY 1103RW or GENETICS 2100 or equiv

Incompatible: PLANT SC 3007WT, PLANT SC 3018WT

Assessment: final exam, practical reports, essay

Generic manipulation in plants has underpinned improvements in productivity and has enhanced sustainability of farming systems worldwide. As well, plant generic diversity is fundamental to understand adaptation in natural systems. This course introduces the fundamental concepts of plant breeding and plant adaptation that are applicable to agricultural and natural systems. The topics covered include: genetic diversity in relation to adaptation, productivity, pest and disease resistance and end-use quality; strategies for setting breeding objectives and maximising selection and improvement of key traits; breeding methodologies for self or cross pollinated plants.

PLANT SC 3230WT

Communication in the Agri-Food Industry

3 units - semester 2

Average 6 hours per week including lectures, tutorials, &/or practicals

Assumed Knowledge: Level I/II of B.Ag.Sc, B.Sc.(Ag.Sc) or B.Food 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.

HONOURS

PLANT SC 4003AWT/BWT

Honours Plant Science (B.Ag.Sc.)

12 units - full year

Prerequisite: Credit or higher in at least 2 Level III courses approved by Head of Discipline

Corequisite: 2 additional Level III courses offered and approved by Discipline relevant to proposed research project (at discretion of Head, a relevant course taught by another discipline may be accepted)

Assessment: average of four Level III courses, research project - research proposal, seminar, thesis and viva voce

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. Intending candidates should consult the Head of the Discipline of Plant and Food 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 4012AWT/BWT Honours Plant Science

24 units - full year

Prerequisite: Credit or higher in at least 2 appropriate Level III courses offered by a Science Discipline

Assessment: research proposal, seminar, thesis, viva voce - minor component, e.g. 10-20% may comprise coursework, essays or other assignments not part of research project as deemed appropriate to each student's program

This course is available under the provisions of Specific Academic Program Rule 5.7.2.

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. 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 Food 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).

Politics

LEVEL I

POLI 1101 Introduction to Australian Politics

3 units - semester 2

3 contact hours 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%

Politics affect you everyday, the conditions you live and work under, your identity, your security, the values and fears you possess, and ultimately your expectations as a citizen and your place in the world. This 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 position 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 2

3 contact hours per week

Available for Non-Award Study

Assessment: tutorial attendance 15%, minor essay 40%, multiple choice test 20%

This course provides a comprehensive introduction to International Politics and International Relations, focusing in particular on its origins and historical evolution, its key concepts, major theoretical frameworks, main actors, institutions, architecture of power, and its dynamic nature in the process of globalisation. It introduces concepts of power, political economy, statecraft, diplomacy, foreign policy, and international security, and examines the evolution of international politics in the twentieth century.

POLI 1103 Justice, Liberty, Democracy: Debates & Directions

3 units - semester 1

3 contact hours per week

Available for Non-Award Study

Assessment: participation 20% (tutorial participation 10%; tutorial workbook 10%), 1200-1500 word essay 30%, 2500-3000 word essay 60%

The course will analyse ongoing fraught debates about the future of liberal-democratic societies, including Australia. It seeks to develop an understanding of key concepts, both in themselves and in their relation to each other. As a way of focussing attention on the question of individual freedom within a democratic polity, the course will examine the idea of liberty, the notion of rights and the demarcation line between the public and the private. The course will also discuss the related questions of equality and justice, and of theories of difference, both of race and of gender. To contextualise the operations of liberal-democracy the course will examine the idea of the nation and the concept of the state, and discuss the relationship of democracy to civil society and social capital. This will connect with a consideration of current developments affecting civil liberties and the responsibilities of democratic citizens.

POLI 1104 Introduction to Comparative Politics

3 units - semester 1

3 contact hours per week

Available for Non-Award Study

Assessment: 700-900 word mid-term paper 20%, tutorial presentation & participation 20%, multiple-choice test 20%, 1400-1800 word final paper 40%

The news each day brings questions about political and socio-economic events in different countries around the world. Why did Britain support - and France and Germany oppose - the war in Iraq? Why does religion play such a strong role in United States politics and Iran? Will rapid economic development trigger democratization in China? Are multi-ethnic states threatened by the centrifugal forces of ethno-nationalism? Are democracies well equipped to fight against terrorism? All such questions

are the intellectual terrain of Comparative Politics. Answering them requires an understanding of the history, political institutions and processes in these countries. In this course, we will look at the political systems of a wide range of economically developed and developing countries, democracies and non-democracies: Brazil, Britain, China, France, Germany, India, Indonesia, Iran, Japan, Pakistan, Russia and the United State. While analysing particular political institutions and arrangements in various countries and comparing them with those of others, we will also reflect upon the policy-making across diverse political systems.

LEVEL II

POLI 2002 Comparative Politics

4 units - semester 1

3 contact hours per week

Prerequisite: 6 units Level I Humanities/Social Sciences

Incompatible: POLI 3002

Assessment: 1500-2000 word essay 30%, 2500-3000 word essay 50%, tutorials 20%

The decade of the 1980s was the last dominated by larger-than-life political leaders such as Thatcher, Reagan and Gorbachev, while the 1990s and beyond have revealed a persistent disquiet about the lack of quality, ethics and 'vision' in the running of countries and, with the growth of huge global manufacturing/financial operations, businesses too. This course employs a broad, inter-disciplinary approach, exploring the main dimensions of leadership in politics and international business/finance. Starting with classical political approaches, the course then moves on to the economic and historical factors normally associated with the rise of great leaders. In doing so, it acquaints students with a wide range of thinking and debate about the subject. Are great leaders shaped by culture, or does culture shape leadership? Were Stalin and Mao born with the necessary characteristics of supreme leadership? Did U.S. Presidents Kennedy and Clinton have natural appeal, or were they the products of 'spin-doctoring'? Did Malaysia's Mahathir emerge through carefully plotted political strategies, historical circumstance or force of personality? Is George Soros a leader in big business, or in the international political realm too? To what extent have populist leaders such as Gandhi and Mandela based their leadership on charismatic appeal?

POLI 2009 Justice, Virtue and the Good

4 units - semester 1

3 contact hours per week

Prerequisite: 6 units Level I Humanities/Social Sciences

Incompatible: POLI 3010, POLI 3009

Assessment: 1500 word essay 30%, 3000 word essay 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 2

3 contact hours per week

Prerequisite: 6 units Level I Humanities/Social Sciences

Incompatible: POLI 3010

Assessment: tutorial participation 20%, 1500 word essay 30%, 3000 word essay 50%

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 2017 Passion and Interests: The History of Greed

4 units - semester 1

3 contact hours per week

Prerequisite: 6 units Level 1 Humanities/Social Sciences

Incompatible: POLI 3017

Assessment: 1500-1800 word tutorial paper 30%, 3000-3500 word essay 50%, tutorial participation 20%

The course is about self-interest. It attempts to solve the puzzle of how greed made its transformation from a Deadly Sin (avarice) to a cool virtue? How could Gordon Gecko seduce his audience so easily in Wall Street with his 'Greed is Good' speech? How did we get here?

The course will focus on seventeenth, eighteenth and nineteenth century responses to the emergence of market society (capitalism) and will trace the demise of feudal and Renaissance idealism and the emerging 'bourgeois' mentality of the enlightenment era. The transformation of commercial activity from a base occupation to its culmination as a 'calling' is explored as part of an intellectual history of the legitimization of self interest. This history will cover, among other things: the division of labour; capitalism and the market; individualism; pre-commercial and market virtues; classical and modern communitarianism; and classical political economy. Important critics of self-interest will also be included. The course will conclude with a close study of the film Wall Street. Featured thinkers include: Niccolo Machiavelli; Thomas Hobbes, Bernard Mandeville, Adam Smith, Karl Marx, Max Weber, Milton Keynes, Frederick von Hayek and Francis Fukuyama.

POLI 2020 **China Rising**

4 units - semester 2

3 contact hours per week

Available for Non-Award Study

Prerequisite: 6 units Level I Humanities/Social Sciences

Incompatible: POLI 3020

Assessment: 2500-3000 word research project 40%, 1500-2000 word mid-term essay 20%, class test 20%, tutorial presentation 10%, tutorial participation 10%

This course is intended to help students acquire a broad understanding of the evolution of Chinese foreign policy since the establishment of the People's Republic in 1949, with a particular emphasis placed on the post-Cold War era. Taking both a chronological and thematic approach to the study of China's foreign policy, the course is divided into three parts: Part 1 examines Beijing's policies towards the Cold War superpowers; Part 2 considers China's relationships with the United States, Russia and the Asia-Pacific after 1989; and Part 3 analyses key dimensions of contemporary Chinese foreign policy.

Students will be introduced to political, economic and security motivations behind particular foreign policy choices, Beijing's perception of international situations, the linkages between domestic and foreign policymaking and the influence of ideologies and China's key policymakers. The course will also guide them to analyse the impact of international events on China's domestic and foreign policies and China's influence in other states. While examining the emergence of China as the regional, if not global, superpower, the central questions the course will address include: Is China a responsible power? Does China matter in global politics and economy? Is China on the way to becoming a superpower? Will it stay peaceful when it rises to the top?

POLI 2021 **Gender, International Politics & Development**

4 units - semester 1

3 contact hours per week

Available for Non-Award Study

Prerequisite: 6 units level I Humanities/Social Sciences

Incompatible: POLI 3021

Assessment: 2500-3000 word major essay 50%, 1200-1500 word minor essay 25%, multiple-choice test 15%, tutorial attendance, presentation and participation 10%

This course asks students to consider what it means to take a gender perspective in the fields of international studies and development studies. International development practitioners and global governance institutions have increasingly come to recognise the importance of taking gender issues seriously in their work. This course will focus students' attention on this relationship between gender and the international politics of development by exposing them to the main theoretical debates and comparative country case studies drawn from around the world. The initial two lectures of this course will introduce students to the broad field of gender and development. The course will then turn to look at how different types of feminist/gender theory

can provide particular insights into the international politics of development. The final section of the course picks up on current issues in international politics and development studies that have particular relevance to the study of gender. These include issues such as gender and conflict/peacekeeping, the role of the child in international politics, gender and human rights and issues around the role of men and masculinities in international politics and development.

POLI 2022 **The Ethics of War & Peace**

4 units - semester 1

3 contact hours per week

Available for Non-Award Study

Incompatible: POLI 3022

Assessment: 2500-3000 word research essay 50%, 1500-2000 word case study 20%, class test 20%, seminar attendance, presentation & participation 10%

This course is concerned with the ethics of war and peace in international politics. The course combines the study of a number of prominent theoretical approaches to ethical enquiry in International Relations with a range of ethical questions about war and peace in contemporary international politics. Major theoretical approaches to ethics and international relations discussed include realism, the just war tradition and cosmopolitan ethics. The central questions the course will address include; in what circumstances can the use of force be justified in international politics? Is humanitarian intervention an ethical practice or should the principles of sovereignty and non-intervention be upheld? Is it possible to provide an ethical justification for pre-emptive and preventive war? Is it ever permissible to kill civilians in war? Are the tenants of the just war tradition applicable to conflict in the 21st century? Can the practice of torture be justified in any circumstances?

The approach taken in this course is both theoretical and practical. Students will be introduced to the major theoretical approaches to ethical questions in international relations and will be expected to apply them to real and hypothetical cases.

POLI 2023 **Theories of International Politics**

4 units - semester 2

3 contact hours per week

Prerequisite: 6 units Level I Humanities/Social Sciences

Incompatible: POLI 3023

Assessment: 1500-2000 word minor essay 40%, 2000-2500 word major essay 50%, tutorial participation 10%

This course focuses on the ways in which particular thinkers have attempted to explain and understand aspects of international relations, in particular, the causes and nature of conflict in the international realm. While predominantly theoretical in its approach, the course necessarily incorporates the examination of those historical (eg. the French Revolution, World Wars I & II, and the Cold War) and intellectual (eg. the Enlightenment, modernism and post-modernism) occurrences that have

informed the development of international relations theory. The course begins by introducing students to the fundamental principles of textual interpretation before turning to key excerpts of major theorists' works in the field. The first part of the course focuses on the causes and nature of war in the works of a number of ancient and modern thinkers (eg. Thucydides, Hobbes and Rousseau). The second part focuses on the challenges faced by the emerging European system of states in the 18th century and the solutions proposed by theorists from very different political and ideological backgrounds (eg. Smith, Burke and Kant). Finally, the third part of the course turns to the 20th and 21st centuries and considers how particular thinkers theorised the nature and conduct of war in the interwar period (eg. Schmitt), the aftermath of World War II (eg. Morgenthau), the Cold War (eg. Kahn) and the post-modern age (eg. Der Derian).

POLI 2062
State of the World

4 units - semester 2

3 contact hours per week

Prerequisite: 6 units Level I Humanities/Social Sciences

Incompatible: POLI 3062

Assessment: tutorial participation 25%, 1800 word essay 30%, 3000-3500 word essay 45%

This course 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.

POLI 2071
Issues In Australian Politics

4 units - semester 1

3 contact hours per week

Prerequisite: 6 units Level I Humanities/Social Sciences

Incompatible: POLI 3071

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 2081
Post-Cold War International Relations

4 units - semester 1

3 contact hours per week

Prerequisite: 6 units Level I Humanities/Social Sciences

Incompatible: POLI 3081

Assessment: tutorial attendance 15%, minor essay 25%, major essay 40%, multiple choice test 20%

This course explores some of the most important developments in international relations in the post-Cold war period, from the fall of the Soviet Union to the 'war on terror' at the opening of the twenty-first century. It aims to introduce students both to the major events of that period and to the debates, public and academic, over their causes, significance and meaning.

LEVEL III

POLI 3002
Comparative Politics

6 units - semester 1

3 contact hours per week

Prerequisite: 8 units Level II Humanities/Social Sciences

Incompatible: POLI 2002

Assessment: 2500-3000 word essay 30%, 3000-3500 word essay 50%, tutorials 20%

The decade of the 1980s was the last dominated by larger-than-life political leaders such as Thatcher, Reagan and Gorbachev, while the 1990s and beyond have revealed a persistent disquiet about the lack of quality, ethics and 'vision' in the running of countries and, with the growth of huge global manufacturing/financial operations, businesses too. This course employs a broad, inter-disciplinary approach, exploring the main dimensions of leadership in politics and international business/finance. Starting with classical political approaches, the course then moves on to the economic and historical factors normally associated with the rise of great leaders. In doing so, it acquaints students with a wide range of thinking and debate about the subject. Are great leaders shaped by culture, or does culture shape leadership? Were Stalin and Mao born with the necessary characteristics of supreme leadership? Did U.S. Presidents Kennedy and Clinton have natural appeal, or were they the products of 'spin-doctoring'? Did Malaysia's Mahathir emerge through carefully plotted political strategies, historical circumstance or force of personality? Is George Soros a leader in big business, or in the international political realm too? To what extent have populist leaders such as Gandhi and Mandela based their leadership on charismatic appeal?

POLI 3009 **Justice, Virtue and the Good**

6 units - semester 1

3 contact hours per week

Prerequisite: 8 units Level II Humanities/Social Sciences

Incompatible: POLI 2010, POLI 2009

Assessment: 2000 word essay 30%, 4000 word essay 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 2

3 contact hours per week

Prerequisite: 8 units Level II Humanities/ Social Sciences

Incompatible: POLI 2010

Assessment: tutorial participation 20%, 2000 word essay 30%, 4000 word essay 50%

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 3017 **Passion and Interests: The History of Greed**

6 units - semester 1

3 contact hours per week

Prerequisite: 8 units Level II Humanities/Social Sciences

Incompatible: POLI 2017

Assessment: 2000-2500 word tutorial paper 30%, 4500-5000 word essay 50%, tutorial participation 20%

This course is about self-interest. It attempts to solve the puzzle of how greed made its transformation from a Deadly Sin (avarice) to a cool virtue? How could Gordon Gecko seduce his audience so easily in Wall Street with his 'Greed is Good' speech? How did we get here?

The course will focus on seventeenth, eighteenth and nineteenth century responses to the emergence of market society (capitalism) and will trace the demise of feudal and Renaissance idealism and the emerging 'bourgeois' mentality of the enlightenment era. The transformation of commercial activity from a base occupation to its culmination as a 'calling' is explored as part of an intellectual history of the legitimation of self interest. This history will cover, among other things: the division of labour; capitalism and the market; individualism; pre-commercial and market virtues; classical and modern communitarianism; and classical political economy. Important critics of self-interest will also be included. The course will conclude with a close study of the film Wall

Street. Featured thinkers include: Niccolo Machiavelli; Thomas Hobbes, Bernard Mandeville, Adam Smith, Karl Marx, Max Weber, Milton Keynes, Frederick von Hayek and Francis Fukuyama.

POLI 3020 **China Rising**

6 units - semester 2

3 contact hours per week

Available for Non-Award Study

Prerequisite: 8 units Level II Humanities/Social Sciences

Incompatible: POLI 2020

Assessment: 3500-4000 word research project 40%, 2000-2500 word mid-term essay 20%, class test 20%, tutorial presentation 10%, tutorial participation 10%

This course is intended to help students acquire a broad understanding of the evolution of Chinese foreign policy since the establishment of the People's Republic in 1949, with a particular emphasis placed on the post-Cold War era. Taking both a chronological and thematic approach to the study of China's foreign policy, the course is divided into three parts: Part 1 examines Beijing's policies towards the Cold War superpowers; Part 2 considers China's relationships with the United States, Russia and the Asia-Pacific after 1989; and Part 3 analyses key dimensions of contemporary Chinese foreign policy.

Students will be introduced to political, economic and security motivations behind particular foreign policy choices, Beijing's perception of international situations, the linkages between domestic and foreign policymaking and the influence of ideologies and China's key policymakers. The course will also guide them to analyse the impact of international events on China's domestic and foreign policies and China's influence in other states. While examining the emergence of China as the regional, if not global, superpower, the central questions the course will address include: Is China a responsible power? Does China matter in global politics and economy? Is China on the way to becoming a superpower? Will it stay peaceful when it rises to the top?

POLI 3021 **Gender, International Politics & Development**

6 units - semester 1

3 contact hours per week

Available for Non-Award Study

Prerequisite: 8 units Level II Humanities/Social Sciences

Incompatible: POLI 2021

Assessment: 3500-4500 word major essay 50%, 1800-2200 word minor essay 25%, multiple choice test 15%, tutorial attendance, presentation & participation 10%

This course asks students to consider what it means to take a gender perspective in the fields of international studies and development studies. International development practitioners and global governance institutions have increasingly come to recognise the importance of taking gender issues seriously in their work. This course will focus students' attention on this relationship between gender and the international politics of development by exposing them to the main

theoretical debates and comparative country case studies drawn from around the world. The initial two lectures of this course will introduce students to the broad field of gender and development. The course will then turn to look at how different types of feminist/gender theory can provide particular insights into the international politics of development. The final section of the course picks up on current issues in international politics and development studies that have particular relevance to the study of gender. These include issues such as gender and conflict/peacekeeping, the role of the child in international politics, gender and human rights and issues around the role of men and masculinities in international politics and development.

POLI 3022
The Ethics of War & Peace

6 units - semester 1

3 contact hours per week

Available for Non-Award Study

Prerequisite: 8 units Level II Humanities/Social Sciences

Incompatible: POLI 2022

Assessment: 3500-4500 word research essay 50%, 2000-2500 word case study 20%, class test 20%, seminar attendance, presentation & participation 10%

This course is concerned with the ethics of war and peace in international politics. The course combines the study of a number of prominent theoretical approaches to ethical enquiry in International Relations with a range of ethical questions about war and peace in contemporary international politics. Major theoretical approaches to ethics and international relations discussed include realism, the just war tradition and cosmopolitan ethics. The central questions the course will address include; in what circumstances can the use of force be justified in international politics? Is humanitarian intervention an ethical practice or should the principles of sovereignty and non-intervention be upheld? Is it possible to provide an ethical justification for pre-emptive and preventive war? Is it ever permissible to kill civilians in war? Are the tenants of the just war tradition applicable to conflict in the 21st century? Can the practice of torture be justified in any circumstances?

The approach taken in this course is both theoretical and practical. Students will be introduced to the major theoretical approaches to ethical questions in international relations and will be expected to apply them to real and hypothetical cases.

POLI 3023
Theories of International Politics

6 units - semester 2

3 contact hours per week

Prerequisite: 8 units Level II Humanities/Social Sciences

Incompatible: POLI 2023

Assessment: 2500-3000 word minor essay 40%, 3500-4000 word major essay 50%, class participation 10%

This course focuses on the ways in which particular thinkers have attempted to explain and understand aspects of international relations, in particular, the causes and nature of conflict in the international realm. While predominantly theoretical in its approach, the course necessarily incorporates the examination of those historical (eg. the French Revolution, World Wars I & II, and the Cold War) and intellectual (eg. the Enlightenment, modernism and post-modernism) occurrences that have informed the development of international relations theory. The course begins by introducing students to the fundamental principles of textual interpretation before turning to key excerpts of major theorists' works in the field. The first part of the course focuses on the causes and nature of war in the works of a number of ancient and modern thinkers (eg. Thucydides, Hobbes and Rousseau). The second part focuses on the challenges faced by the emerging European system of states in the 18th century and the solutions proposed by theorists from very different political and ideological backgrounds (eg. Smith, Burke and Kant). Finally, the third part of the course turns to the 20th and 21st centuries and considers how particular thinkers theorised the nature and conduct of war in the interwar period (eg. Schmitt), the aftermath of World War II (eg. Morgenthau), the Cold War (eg. Kahn) and the post-modern age (eg. Der Derian).

POLI 3062
State of the World

6 units - semester 2

3 contact hours per week

Prerequisite: 8 units Level II Humanities/Social Sciences

Incompatible: POLI 2062

Assessment: tutorial participation 25%, 2500 word first essay 30%, 4500-5000 word second essay 45%

This course 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.

POLI 3071 **Issues in Australian Politics**

6 units - semester 1

3 contact hours per week

Prerequisite: 8 units Level II Humanities/Social Sciences

Incompatible: POLI 2071

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 3081 **Post-Cold War International Relations**

6 units - semester 1

3 contact hours per week

Prerequisite: 8 units Level II Humanities/Social Sciences

Incompatible: POLI 2081

Assessment: tutorial attendance 15%, minor essay 25%, major essay 40%, multiple choice test 20%

This course explores some of the most important developments in international relations in the post-Cold war period, from the fall of the Soviet Union to the 'war on terror' at the opening of the twenty-first century. It aims to introduce students both to the major events of that period and to the debates, public and academic, over their causes, significance and meaning.

POLI 3082 **South Australian Parliamentary Internship - Law**

4 units - semester 2

40 hours

Restriction: Bachelor of Laws students only

Prerequisite: LAW 1001, LAW 1004, LAW 1002

Assessment: 7000 word major research paper

As a central part of this course students will have the opportunity to spend a semester as 'interns' working with a Member of the State Parliament while completing an agreed research task. Final placement will depend upon availability and the application of an internal quota. In order to complete the process of placement allocation, students should finalise their enrolment by the completion of the normal enrolment period.

POLI 3083 **South Australian Parliamentary Internship**

6 units - semester 2

3 contact hours per week

Quota will apply

Prerequisite: 8 units Level II Humanities/Social Sciences

Assessment: 2000 word essay 20%, 5000-7000 word major research paper 80%

As a central part of this course students will have the opportunity to spend a semester as 'interns' working with a Member of the State Parliament while completing an agreed research task. Final placement will depend upon availability and the application of an internal quota. In order to complete the process of placement allocation, students should finalise their enrolment by the completion of the normal enrolment period and cannot be considered if not enrolled before 30 April.

HONOURS

POLI 4401A/B **Honours Politics**

24 units - full year

Prerequisite: UG degree, credit average in courses contributing to major in Politics or equiv, approved by Honours Coordinator

Assessment: 2 x 5,000-6,000 word coursework seminars 25% each, 15000-18,000 word thesis 50%

Students wishing to take Honours Politics should consult the Honours Coordinator prior to commencing Level II to ensure appropriate course choices are made in preparation for Honours. 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 the date of this 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 I**

3 units - semester 1

Restriction: MBBS, B.Hlth.Sc, B.Psych.(Hons) students only

Incompatible: PSYCHIAT 1000A/B

Assessment: essay, participation, -formative assessment provided to students for summative tasks

PCM is an interdisciplinary course that combines theoretical perspectives from psychology, physical anthropology and cultural anthropology, and applies these to the complex human processes of eating, intimate

relationships, pain and death and dying. The course requires attendance at three-hour seminar/tutorial blocks.

LEVEL II

PSYCHIAT 2002 Emotion Culture & Medicine II

4 units - semester 2

Restriction: MBBS, B.Hlth.Sc, B.Psych.(Hons) students only

Assumed Knowledge: PSYCHIAT 1001

Incompatible: PSYCHIAT 2002A/B

Assessment: essay, participation, - formative assessment provided to students for summative tasks

ECM II is an interdisciplinary course that combines theoretical perspectives from psychology, neurobiology and cultural anthropology and applies these to the complex human emotional states, including happiness, sadness, anger and fear. The course requires attendance at three-hour seminar/tutorial blocks.

HONOURS

PSYCHIAT 4000AHO/BHO 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

2 lectures/week, 1 tutorial/practical most weeks

Check with School for Non-Award Study

Incompatible: 5104, PSYCHOL 1000A/B

Assessment: assignments, practical exercise 45%, research participation 5%, written exam 50%

This course, together with PSYCHOL 1001, provides an introduction to the basic concepts and core topics within contemporary psychology. The two courses may be taken singly or in combination. Core topics covered over the year 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; issues related to individual adjustment and maladjustment; the biological bases of behaviour; the interpretation by the brain of sensory signals from the external environment; the mechanisms underlying learning; the encoding, storage and retrieval of information; and the nature of motivation and emotion.

The courses will also provide an introduction to the methodological approaches employed by psychologists to study these topics. Major findings to emerge from psychological research will be presented, and the practical significance of such work will be discussed. Practical work will address the conventions of psychological report-writing and the ethical principles underlying psychological research and practice.

PSYCHOL 1001 Psychology IB

3 units - semester 2

2 lectures/week, 1 hour tutorial/practical most weeks

Check with School for Non-Award Study

Incompatible: 5104, PSYCHOL 1000A/B

Assessment: assignment & practical exercise 45%, research participation 5%, written exam 50%

This course, together with PSYCHOL 1000, provides an introduction to the basic concepts and core topics within contemporary psychology. The two courses may be taken singly or in combination. Core topics covered over the year 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; issues related to individual adjustment and maladjustment; the biological bases of behaviour; the interpretation by the brain of sensory signals from the external environment; the mechanisms underlying learning; the encoding, storage and retrieval of information; and the nature of motivation and emotion. The courses will also provide an introduction to the methodological approaches employed by psychologists to study these topics. Major findings to emerge from psychological research will be presented, and the practical significance of such work will be discussed. Practical work will address the conventions of psychological report-writing and the ethical principles underlying psychological research and practice.

LEVEL II

PSYCHOL 2001 Psychological Research Methodology II

4 units - semester 1 or 2

2 lectures per week, practical workshops

Check with School for Non-Award Study

Prerequisite: PSYCHOL 1000, PSYCHOL 1001 or equiv

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 all Level III Psychology courses.

PSYCHOL 2002 Psychology IIA

4 units - semester 1

3 lectures / week, tutorials most weeks

Check with School for Non-Award Study

Prerequisite: PSYCHOL 1000, PSYCHOL 1001 or equiv

Incompatible: 5846, PSYCHOL 2000A/B

Assessment: assignments 50%, exam 50%

Together with PSYCHOL 2003 Psychology IIB, this course seeks to build upon a range of different approaches to the understanding of human behaviour that was introduced in Psychology IA and Psychology IB. Psychology IIA and Psychology IIB may be taken singly or in combination. Lectures and practicals over the year will focus on the biological bases of behaviour; the way in which behaviour changes with age; the interpretation of behaviour in terms of its cognitive and emotional underpinnings; the nature of individual differences; language and human development; the nature of stress and its management; and the effect of a range of socio-cultural factors. The theoretical and applied significance of this research will be presented.

PSYCHOL 2003 Psychology IIB

4 units - semester 2

3 lectures/week, tutorials most weeks

Check with School for Non-Award Study

Prerequisite: PSYCHOL 1000, PSYCHOL 1001 or equiv

Incompatible: 5846, PSYCHOL 2000A/B

Assessment: assignments 50%, exam 50%

Together with PSYCHOL 2002 Psychology IIA, this course seeks to build upon a range of different approaches to the understanding of human behaviour that was introduced in Psychology IA and Psychology IB. Psychology IIA and Psychology IIB may be taken singly or in combination. Lectures and practicals over the year will focus on the biological bases of behaviour; the way in which behaviour changes with age; the interpretation of behaviour in terms of its cognitive and emotional underpinnings; the nature of individual differences; language and human development; the nature of stress and its management; and the effect of a range of socio-cultural factors. The theoretical and applied significance of this research will be presented.

PSYCHOL 3000 Psychological Research Methodology III

4 units - semester 1

2 lectures/week, practical work in computing & statistics, tutorials

Check with School for Non-Award Study

Prerequisite: 3149 or 4416 or PSYCHOL 2001

Assessment: practical exercises 33%, written exam 67%

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. 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.

LEVEL III

PSYCHOL 3003 Developmental Psychology III

2 units - semester 2

1 lecture/week; 3 tutorials/semester, practical work

Check with School for Non-Award Study

Prerequisite: PSYCHOL 2002, PSYCHOL 2003, PSYCHOL 2001 or equivs

Assessment: practical exercise report 50%, written exam 50%

This course extends the account of human development presented in the earlier courses in Psychology. Recent theory and research extending Piaget's classic work on cognitive development in children will be covered, 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. How children function and develop in their social world will be considered by: (1) examining the significance of family and peer relationships; (2) exploring the developments of children's friendships and play; and (3) investigating the emergence of prosocial and antisocial behaviours.

PSYCHOL 3009 Metapsychology: Psychology, Science, Society III

2 units - semester 2

1 lecture/week, 3 tutorials/semester, practical work

Check with School for Non-Award Study

Prerequisite: PSYCHOL 2001, PSYCHOL 2002, PSYCHOL 2003 or equivs

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 of science, sociology, and discourse studies. 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. It is concerned with 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 within a variety of social institutions such as government, education, health, the media and the legal system.

PSYCHOL 3010 Social Psychology III

2 units - semester 2

1 lecture/week, 3 tutorials/semester, practical work

Check with School for Non-Award Study

Prerequisite: PSYCHOL 2001, PSYCHOL 2002, PSYCHOL 2003 or equivs

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/week, 3 tutorials/semester, practical work

Check with School for Non-Award Study

Prerequisite: PSYCHOL 2001, PSYCHOL 2002, PSYCHOL 2003 or equivs

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, 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 1

1 lecture per week, 3 tutorials/semester, practical work

Check with School for Non-Award Study

Prerequisite: PSYCHOL 2001, PSYCHOL 2002, PSYCHOL 2003 or equivs

Incompatible: 7196

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/week, 3 tutorials/semester, practical work

Check with School for Non-Award Study

Prerequisite: PSYCHOL 2001, PSYCHOL 2002, PSYCHOL 2003 or equivs

Incompatible: 7324

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 3017 Health Psychology III

2 units - semester 1

1 lecture/week, 3 tutorials/semester, practical work

Check with School for Non-Award Study

Prerequisite: PSYCHOL 2001, PSYCHOL 2002, PSYCHOL 2003 or equivs

Assessment: practical exercise report 50%, written exam 50%

In this course we will consider the psychological aspects of health, illness, and the delivery of health care. There will be a focus on the health problems that cause the most loss and disability in our society, we will consider behavioural risk factors, the psychology of health promotion, changes in health care needs with age, the roles of professional and informal health-care

providers, the relevant theories about behavioural change, and research designs for evaluating interventions. The course will illustrate psychology's current and potential contributions to health and will be of interest to students with a range of learning and career goals.

PSYCHOL 3018 Cognition III

2 units - semester 1

1 lecture/week, 4 tutorials/semester, practical work

Check with School for Non-Award Study

Prerequisite: PSYCHOL 2002, PSYCHOL 2003, PSYCHOL 2001

Incompatible: PSYCHOL 3005 (2006 only)

Assessment: 2000 word practical report 50%, 90 min. written exam 50%

Cognition III examines how people think, learn and reason. The focus is multidisciplinary, drawing on research in psychology, neuroscience, statistics, philosophy and linguistics and designed to be of interest to students in any of the cognitive sciences. The course covers a range of topics, including how humans build and use concepts, make decisions when faced with uncertainty, and how we reason and solve everyday problems. The majority of the material will deal with these questions using psychological theories, but will also look at how cognitive tasks might be incorporated into a machine learning system, and how these tasks are performed by the human brain.

PSYCHOL 3019 Perception III

2 units - semester 2

1 lecture/week, 3 tutorials/semester, practical work

Check with School for Non-Award Study

Prerequisite: PSYCHOL 2002, PSYCHOL 2003, PSYCHOL 2001

Incompatible: PSYCHOL 3005 (2006 only)

Assessment: practical report 50%, written 1.5 hour exam 50%

Perception III examines how the brain processes sensory information to create the individual's perception of the environment. It considers the ways in which information is recovered, and how the brain processes this information to allow individuals to perform daily activities. There will be a focus on the visual system, from the simple detection of light to using visual information to control movements. Key experimental findings from the literature are discussed, as well as models and methodologies used to address questions in these areas. The course draws on literature that covers psychology, neuropsychology, behaviour neuroscience and computational modelling.

HONOURS

PSYCHOL 4000A/B Honours Psychology

24 units - full year

Prerequisite: see School 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 School or consult the School'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 program. 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 School or other person nominated by the School 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?

The course 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 organisation 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

4 hours lectures/tutorials/practicals per week

Restriction: B.Hlth.Sc, B. Develop St. & B.Psych.(Hons) students

Available for Non-Award Study

Prerequisite: PUB HLTH 1001, PUB HLTH 1002

Assessment: written assignments, group presentation, exam

Public Health Inquiry II aims to build upon concepts introduced in Public Health IA and IB to provide a detailed background to the major streams of inquiry in public health - in particular, epidemiology and social and political analysis - and their application to the resolution of contemporary problems in public health.

The course aims to: Develop your skills in the use of epidemiological data and methods to understand health problems; Develop your skills in the critical analysis of health problems, the wider social context in which they exist, and in which relevant policy is formulated; Develop skills and knowledge needed for employment in public health, in particular skills related to understanding a public health problem, working productively with others, time management, and oral and written communication.

Students who complete Public Health Inquiry II will be familiar with some of the most commonly used methods of epidemiological inquiry in public health and have an understanding of some of the central concepts in the interpretation and analysis of public health policy.

PUB HLTH 2001 Public Health Sciences II

4 units - semester 1

4 hours lectures/tutorials/practicals per week

Restriction: B.Hlth.Sc, B. Develop St, & B.Psych (Hons) students

Available for Non-Award Study

Prerequisite: PUB HLTH 1001, PUB HLTH 1002

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 IA and IB and the more advanced treatment of theories and practice covered in Public Health Inquiry II and Level III public health courses.

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 of 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 understand Occupational and Environmental Health risk assessment and hazard management principles and apply these principles to a selected range of physical, chemical and microbiological hazards in occupational and community settings.

LEVEL III

PUB HLTH 3004 International Health III

6 units - semester 1

1 week intensive April mid-semester break, lectures, tutorials and practical sessions

Restriction: only students in B.Hlth.Sc, MBBS or B.Develop.St or permission of Head of School of Public Health or nominee

Check with School for Non-Award Study

60

Prerequisite: previous/concurrent study of public health, clinical medicine or social & economic development.

Assessment: attendance at all sessions - tutorial & practical assignments, 3,000 word essay, end of semester exam

The aim of this course is to introduce students to the basic principles of international health, in order to give them a better understanding of the wider context of health systems in developing countries. This will prepare the students for working with communities and organisations that are responsible for funding and/or providing health care and health promotion in developing countries, for instance as preparation for undertaking a clinical or public health elective. An overview of health systems and public policy issues in low- and middle-income countries will cover basic concepts such as health transition during development, globalization and health, financing and organisation, as well as the role of the

private sector, NGOs and international organisations, and inequities in health financing and delivery. This macro-level approach will be complemented by a community perspective focussing on the delivery of health care, public health and health promotion in disadvantaged communities including planning, implementation, monitoring and evaluation. The role of communities, clients, community based organisations, public and private sector providers, and funding agencies will be highlighted. Factors facilitating access, quality, cost and fairness of services and programs will be discussed. Both streams of the course will include practical case studies organised around problem solving in small teams.

PUB HLTH 3106 Health Promotion IIIHS

6 units - not offered in 2008

4 hours lectures/tutorials/practicals per week

Restriction: B.Hlth.Sc, & B.Psych.(Hons) students only

Available for Non-Award Study

Prerequisite: PUB HLTH 2000, PUB HLTH 2001

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 3109 Epidemiology & Biostatistics IIIHS

6 units - not offered in 2008

4 hours lectures/tutorials/practicals per week

Restriction: B.Hlth.Sc, & B.Psych.(Hons) students only

Available for Non-Award Study

Prerequisite: PUB HLTH 2000, PUB HLTH 2001

Assessment: assignments, exam

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 build on material from Level II to give students a working knowledge of 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 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 312HO Public Health Law IIIHS

6 units - not offered in 2008

2 hours lectures/tutorials/practicals/seminars per week

Restriction: double major B.H.Sc /LLB students or graduates only

Prerequisite: PUB HLTH 2000 or PUB HLTH 1003

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 317HO Rural Public Health IIIHS

6 units - semester 2

1 week intensive course in Whyalla

Restriction: B.Hlth.Sc, & B.Psych.(Hons) students only

Available for Non-Award Study

Prerequisite: PUB HLTH 2000, PUB HLTH 2001

Assessment: tutorial assignments, workshop participation

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.

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 319 Public Health Internship III

6 units - semester 2

3 hour seminar and workplace experience

Restriction: B.Hlth.Sc, & B.Psych.(Hons) students only

Quota: following provisional enrolment, 10 students will be selected, based on marks in PUB HLTH 1001, PUB HLTH 1002, PUB HLTH 2000, PUB HLTH 2001

Prerequisite: PUB HLTH 2000, PUB HLTH 2001, at least six units Level III Public Health courses

Assessment: research, 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 Australian Government Department of Health and Ageing, the South Australian Department of Health, 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 of 10 students.

PUB HLTH 3120HO **Public Health Theory and Practice III**

6 units - semester 1

5 hours per week lectures/tutorial/practical

Restriction: B.Hlth.Sc. & B.Psych.(Hons) students only

Available for Non-Award Study

Prerequisite: PUB HLTH 2000 or PUB HLTH 1003

Assessment: exam, assignments, tutorial, practical participation

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

HONOURS

PUB HLTH 4000AHO/BHO **Honours Public Health**

24 units - full year

Restriction: 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 4005AHO/BHO **Combined Honours Public Health & Philosophy**

24 units - full year

Restriction: 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.

PUB HLTH 4101AHO/BHO **Combined Honours Public Health/Politics**

24 units - full year

Restriction: B.Med.Sc. students, appropriately qualified B.Hlth.Sc. students, or permission of Head of Discipline

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/Politics are advised to consult the Honours Coordinator as early as possible.

Soil & 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 subjects

Assessment: Exam, tutorials, practical assignments

Agro-ecosystems face increasing pressure in Australia to become more productive, profitable and efficient, yet sustainable. The 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 2011 **Spatial Information and Land Evaluation**

4 units - semester 1

2 lectures, 4 hours practical work per week

Available for Non-Award Study

Incompatible: SOIL&WAT 2007RW

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 or GEOLOGY 1200 or GEOLOGY 1103

Incompatible: SOIL&WAT 2005WT

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.

LEVEL III

SOIL&WAT 3002WT **Soil Management and Conservation**

3 units - semester 1

2 lectures, 4 hours practical work or equiv per week

Prerequisite: SOIL&WAT 2012WT or SOIL&WAT 2005WT

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 or a Pass in CHEM 1000A/B or CHEM 1001A/B or equiv

Incompatible: 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 equiv 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 3rd year of the program.

SOIL&WAT 3007WT **GIS for Environmental Management**

3 units - summer semester

15 days during summer vacation

Available for Non-Award Study

Assumed Knowledge: basic computing skills in Windows

Incompatible: SOIL&WAT 3014WT

Assessment: practical exercises, case study, written exam

Note: this course involves teaching sessions that may be attended by both Undergraduate and Postgraduate students.

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 from 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 3010 **Remote Sensing**

3 units - semester 2

2 lectures, 3 hours practical work, 1 tutorial per week

Prerequisite: 16 units of Level II science courses or equiv

Assumed Knowledge: Basic computing skills in Windows

Incompatible: GEOG 3008, SOIL&WAT 3008

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 specialised 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.

SOIL&WAT 3012WT Soil Water Management

3 units - semester 2

2 lectures, 4 hours practical work (or equiv) per week

Prerequisite: SOIL&WAT 2012WT or SOIL&WAT 2005WT

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 - semester 2

Available for Non-Award Study

Assumed Knowledge: basic computing skills in Windows environment

Incompatible: SOIL&WAT 3007WT, SOIL&WAT 7025WT

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 fertiliser 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 minimise effort and optimise production.

SOIL&WAT 3016WT Soil Ecology and Nutrient Cycling

3 units - semester 1

2 lectures, 4 hours practical work (or equiv) a week

Prerequisite: SOIL&WAT 2005WT or SOIL&WAT 2012WT

Assessment: exam, practical reports, research proposal

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 the importance of soil organisms for soil fertility, mycorrhizas and their effects on plant productivity and plant communities, soil microbial ecology, root growth, the biology of the rhizosphere and the impact of climate change on nutrient cycling.

HONOURS

SOIL&WAT 4000AWT/BWT Honours Soil & Land Systems (BNR)

24 units - full year

Prerequisite: credit or higher in at least 2 Level III courses approved by Head of Discipline

Assessment: research proposal, final seminar, thesis, viva voce 80%, weighted average of non-research component 20%

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

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 4001AWT/BWT Honours Soil & Land Systems

24 units - full year

Prerequisite: credit or higher standard in at least 2 Level III courses approved by the Head of Discipline.

Assessment: research proposal, final seminar, research paper, viva voce 75%; weighted average of non-research component 25%

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.

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 4002AWT/BWT Honours Soil & Land Systems (B.Ag.)

24 units - full year

Prerequisite: credit or higher standard in at least 2 Level III courses approved by Head of Discipline

Assessment: research proposal, seminars, research paper, viva voce 75%, weighted average of non-research component 25%

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

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 4003AWT/BWT Honours Environmental Science (Soil & Land Systems)

12 units - full year

Prerequisite: credit or higher standard in at least 2 Level III courses approved by the Head of Discipline

Assessment: research proposal, seminars, research paper, viva voce 60%, average of 4 specified Level III courses 40%

NOTE: Viticultural Science begins classes on Monday of O'Week - attendance at these classes is required to be able to complete the course.

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, yield estimation, canopy measurements, maturity sampling and mineral nutrition.

Approximately half the lectures will be provided from Botany II - these lectures will cover topics relating to the general principles of plant biology including structure and function, systematics, floral biology and the physiology of growth and development. The lectures are intended to complement the Viticulture based lecture material with

topics of whole plant biology that are common amongst most plant systems.

SOIL&WAT 4005AWT/BWT Honours Soil Science (B.Sc.)

24 units - full year

Prerequisite: credit or higher standard in at least 2 Level III courses approved by Head of Discipline

Assessment: research proposal, seminars, research paper, viva voce 75%, weighted average of non-research component 25%

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.

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 the end of July.

SOIL&WAT 4007AWT/BWT Honours Soil Science (B.Ag.)

24 units - full year

Prerequisite: credit or higher standard in at least 2 Level III courses approved by Head of Discipline

Assessment: research proposal, seminars, research paper, viva voce 75%, weighted average of non-research component 25%

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.

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 the end of July.

SOIL&WAT 4009AWT/BWT Honours Soil & Land Systems (B.Ag.Sc.)

12 units - full year

Prerequisite: credit or higher standard in at least 2 level III courses approved by the Head of Discipline

Assessment: research proposal, seminars, research paper, viva voce 60%, average of four level III courses referred to above 40%

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)

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 1003 Spanish IA

3 units - semester 1

5 hours per week

Assumed Knowledge: for students with no previous language experience

Incompatible: SPAN 1001, SPAN 1002

Assessment: regular assignments, tests, exam

The aim of this course is to provide an introductory study in the vocabulary and structures of Spanish, and to develop a functional level of communicative proficiency in the language. The course seeks to develop all the basic language skills: listening, speaking, reading and writing. Students will also be introduced to various aspects of the society and culture of Spain and other Spanish speaking countries in Latin America through audio and video extracts and short texts. The emphasis throughout will be on communicative skills both oral and written.

SPAN 1004 Spanish IB

3 units - semester 2

5 hours per week

Prerequisite: Spanish IA

Assumed Knowledge: for students with no previous language experience

Incompatible: SPAN 1001, SPAN 1002

Assessment: regular assignments, tests, exam

The aim of this course is to continue with the introductory study in the vocabulary and structures of Spanish, and to develop a functional level of communicative proficiency in the language. The course seeks to develop all the basic language skills: listening, speaking, reading and writing. Students will also be introduced to various aspects of the society and culture of Spain and other Spanish speaking countries in Latin America through audio and video extracts and short texts. The emphasis throughout will be on communicative skills both oral and written.

SPAN 1005 Spanish ISA

3 units - semester 1

5 hours per week

Prerequisite: SACE Stage II Spanish

Incompatible: SPAN 1001, SPAN 1002

Assessment: regular assignments, tests, exam

The aim of this course is to provide an introductory study in the vocabulary and structures of Spanish, and to develop a functional level of communicative proficiency in the language building upon Year 12 studies in Spanish. The course seeks to develop all the basic language skills:

listening, speaking, reading and writing. Students will also be introduced to various aspects of the society and culture of Spain and other Spanish speaking countries in Latin America through audio and video extracts and short texts. The emphasis throughout will be on communicative skills both oral and written.

SPAN 1006 Spanish ISB

3 units - semester 2

5 hours per week

Prerequisite: SPAN 1005

Assumed Knowledge: SACE Stage II Spanish

Incompatible: SPAN 1001, SPAN 1002

Assessment: regular assignments, tests, exam

The aim of this course is to continue with the introductory study in the vocabulary and structures of Spanish, and to develop a functional level of communicative proficiency in the language. The course seeks to develop all the basic language skills: listening, speaking, reading and writing. Students will also be introduced to various aspects of the society and culture of Spain and other Spanish speaking countries in Latin America through audio and video extracts and short texts. The emphasis throughout will be on communicative skills both oral and written.

Statistics

LEVEL I

STATS 1000 Statistical Practice I

3 units - semester 1 or 2

3 lectures, 1 tutorial, 1 hour practical per week

Available for Non-Award Study

Assumed Knowledge: SACE stage 2 Mathematical Methods or equiv

Incompatible: cannot be counted with STATS 1004, 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
 Restriction: not available to B.Ma.& Comp.Sc. or B.Comp.Sc. students
 Available for Non-Award Study
 Assumed Knowledge: Stage 2 Math. Applications or Math.Methods or Maths I
 Assessment: exam 70%, assignments, 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 Math.Methods or equiv
 Incompatible: cannot be counted with STATS 1000, ECON 1008, STATS 2004, APP MTH 2009 or APP MTH 2010
 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 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 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 1
 2 lectures per week, 1 tutorial per fortnight
 Available for Non-Award Study
 Prerequisite: Pass in MATHS 1012 or MATHS 2004 or corequisite MATHS 2004
 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 interpretations 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 hypergeometric 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: Pass in one of STATS 1000, STATS 1004, STATS 2001, STATS 2004, APP MTH 2009 or APP MTH 2010
 Assumed Knowledge: MATHS 1007A/B or MATHS 1000A/B or MATHS 1001
 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 Faculty & Course Coordinator, 9101 Business Data Analysis will be accepted

STATS 2004 Laplace Transforms & Probability & Stat Methods

2 units - semester 2

24 hours lectures, tutorials & practicals

Restriction: not available to B.Ma.& Comp.Sc. or B.Comp.Sc. students

Available for Non-Award Study

Prerequisite: MATHS 1012 or MATHS 2004

Incompatible: may not be presented with APP MTH 2009, APP MTH 2010 or STATS 2001

Assessment: written & computing assignments 15%, final exam 85%

Laplace transforms of derivatives and integrals, applications to differential equations (approx. 10 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. 14 lectures).

STATS 2011 Statistical Modelling II

2 units - semester 2

2 lectures, 1 hour tutorial or practical per week

Available for Non-Award Study

Prerequisite: Pass in MATHS 1012 or MATHS 2004; Pass in one of STATS 1000, STATS 1004, STATS 2001, STATS 2004, APP MTH 2009 or APP MTH 2010

Assumed Knowledge: STATS 2002

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: Pass in MATHS 1012 or MATHS 2004; Pass in one of STATS 1000, STATS 1004, STATS 2001, STATS 2004, APP MTH 2009 or APP MTH 2010

Assessment: 2 hour exam, class exercises, practicals, project work

Reliability; definitions, types of failure, confidence levels, mtf 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 3001 Statistical Modelling III

3 units - semester 1

5 lectures, 1 hour tutorial or practical every 2 weeks

Available for Non-Award Study

Prerequisite: Pass in MATHS 1012 or MATHS 2004; Pass in one of STATS 1000, STATS 1004, STATS 2001, STATS 2004, APP MTH 2009 or APP MTH 2010

Assumed Knowledge: STATS 2010

Assessment: 3 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 3003 Sampling Theory and Practice III

3 units - not offered in 2008

2 lectures, 1 tutorial, 1 hour practical per week

Available for Non-Award Study

Prerequisite: Pass in MATHS 1012 or MATHS 2004; Pass in one of STATS 1000, STATS 1004, STATS 2001, STATS 2004, APP MTH 2009 or APP MTH 2010

Assumed Knowledge: statistical background as in any Level II Statistics course

Assessment: 3 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: Pass in MATHS 1012 or MATHS 2004; Pass in one of STATS 1000, STATS 1004, STATS 2001, STATS 2004, APP MTH 2009 or APP MTH 2010

Assumed Knowledge: statistical background such as in any Level II Statistics course

Assessment: 3 hour exam, assignments

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 tutorial every 2 weeks

Available for Non-Award Study

Prerequisite: Pass in MATHS 1012 or MATHS 2004; Pass in one of STATS 1000, STATS 1004, STATS 2001, STATS 2004, APP MTH 2009 or APP MTH 2010

Assumed Knowledge: STATS 2011

Assessment: 3 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 3012 Elements of Time Series III

2 units - semester 2

24 hours lectures, tutorials, practical

Available for Non-Award Study

Prerequisite: Pass in MATHS 1012 or MATHS 2004; Pass in one of STATS 1000, STATS 1004, STATS 2004, APP MTH 2009, STATS 2001

Assumed Knowledge: Statistical background such as in any Level II Statistics course

Incompatible: Cannot be counted with STATS 3005 Time Series III

Assessment: 2 hour exam & assignments

This course provides an introduction to time series analysis. Topics covered in this course 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. Additional topics will be selected from 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.

LEVEL IV

STATS 4001 Reliability and Quality Control

2 units - semester 1

28 hours lectures, tutorials or equivalent

Restriction: not available to B.Comp.Sci or B.Ma.&Comp.Sc. students

Assumed Knowledge: STATS 2004

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

HONOURS

STATS 4000A/B Honours Statistics

24 units – full year

Prerequisite: major in Statistics at sufficiently high standard

Assessment: 3 hour exam for each course at end of semester in which it is offered, Honours project, seminar

Students are required to consult the Head of Statistics preferably no later than the end of the year preceding their enrolment, to ensure they have the necessary proposed prerequisite knowledge at a satisfactory standard. All students are required to obtain the approval of the Head of Discipline before enrolling

Students with a different background of third-year courses may be accepted at the discretion of the Head of Statistics.

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 Head of Statistics. 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 4003A/B **Honours Statistics & Computer Science**

24 units – full year

Prerequisite: completion of major in Statistics at high standard, major in Computer Science, passes satisfactory to Head of Discipline in suitable collection of Level II & III courses in Schools of Mathematical & Computer Sciences - students with different prerequisite background at Level II & III may be accepted at discretion of Head of Discipline

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 School. The size of the project is determined by the Discipline in which it is undertaken.

Refer to STATS 4000 & COMP SCI 4999 for further information.

STATS 4004A/B **Honours Statistics & Genetics**

24 units – full year

Prerequisite: Completion of major in Statistics at sufficiently high standard, satisfactory performance in appropriate level courses offered by Molecular & Biomedical Science - students with different background may be accepted at discretion of Head of Discipline

Assessment: thesis, essays, exams, oral presentations

Students are required to undertake four honours level Statistics options, the Frontiers in Genetics Proposal worth 30% and a research project in Statistics and Genetics worth 30%.

VET Music

VETMUS 1501 **Music Industry & Business Management**

1 unit - semester 2

6 hours lectures

Restriction: 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 workshops

Restriction: 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

Restriction: 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

8 x 1.5 hour workshops per semester

Restriction: VET music students only - consult relevant Academic Program Rules

Assessment: written test & folio 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.

VETMUS 1505 **Copyright Law**

1 unit - semester 2

4 x 1 hour workshops

Restriction: 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

Restriction: 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

Restriction: 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 1605A/B **Ensemble (Cert IV)**

2 units - full year

2 hours rehearsal per week

Restriction: VET music students only - consult relevant Academic Program Rules

Assessment: regular performances in 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 1607A/B **History of 20th Century Music**

2 units - full year

1 hour lecture per week

Restriction: VET music students only - consult relevant Academic Program Rules

Assessment: 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

Restriction: VET music students only - consult relevant Academic Program Rules

Assessment: 2 exams 100%

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 individual tuition per year

Restriction: VET music students only - consult relevant Academic Program Rules

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 1610A/B **Individual Tuition (C3)**

3 units - full year

24 hours individual tuition per year

Restriction: VET music students only - consult relevant Academic Program Rules

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 1611A/B **Aural Development (Cert III)**

2 units - full year

1 hour class per week

Restriction: VET music students only - consult relevant Academic Program Rules

Assessment: 2 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 (Cert III)**

2 units - full year

2 hours rehearsal per week

Restriction: VET music students only - consult relevant Academic Program Rules

Assessment: regular performances in 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

Restriction: VET music students only - consult relevant Academic Program Rules

Assessment: 2 exams

Students will develop secure basic knowledge, understanding and written skills in elementary level music theory and song writing in various genres.

VETMUS 1614AB **Aural Development (Diploma)**

2 units - full year

1 hour class per week

Restriction: VET music students only - consult relevant Academic Program Rules

Assessment: as required for stream/level

Students will be allocated to a 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 skills levels and areas of particular development.

VETMUS 1615A/B **Concepts of Music (C4)**

6 units - full year

1 hour lecture, 1 hour tutorial, 1 hour aural per week

Restriction: VET music students only - consult relevant Academic Program Rules

Assessment: assignments 50%, exams 50%

Theory: Students will study and apply scales, chord types, chord progressions, digital patterns, 12-bar blues and rhythm changes in all keys. Scales will include the blues scale, modes, bebop scales, diminished and whole-tone scales.

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. Students will be allocated to an appropriate stream based on a placement test. Refer to MUSCORE 1001.

History: The history and development of jazz, rock and other forms of popular music are studied in order to develop an 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 1701A/B **Jazz Styles 1**

3 units - full year

1 hour lecture per week

Restriction: 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

Restriction: 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

Restriction: VET music students only - consult relevant Academic Program Rules

Corequisite: VETMUS 1702A/B

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 self accompaniment and relating to other courses (eg, Theory, Arranging, Performance)

VETMUS 1704A/B **Jazz Performance 1: VET**

4 units - full year

24 hours individual tuition per year

Restriction: VET music students only - consult relevant Academic Program Rules

Assessment: attendance at Jazz Forum & relevant performance class, 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

Restriction: VET music students only - consult relevant Academic Program Rules

Assessment: assignments, participation in class, written & 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)

Restriction: 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

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

Restriction: 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

Restriction: 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 (Jazz Diploma)**

4 units - full year

24 hours individual tuition

Restriction: VET music students only - consult relevant Academic Program Rules

Assessment: sem 1: teacher assessment 5%, 10 min. practical exam 30%; sem 2: teacher assessment 5%, 15 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 (Jazz Diploma)**

3 units - full year

3 hours rehearsal per week (1.5 hours supervised)

Restriction: VET music students only - consult relevant Academic Program Rules

Corequisite: VETMUS 1755, VETMUS 1756

Assessment: 2 exams (30 min. playing time) 50%, continuous assessment 50% - attendance & performance at Jazz Forum at least once per 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.

VETMUS 1752A/B **Jazz Diploma Workshop**

4 units - full year

2 hour workshop

Restriction: VET music students only - consult relevant Academic Program Rules

Assessment: weekly class exercises & participation 50%, end of semester written & practical exams 50%

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

Restriction: 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.

VETMUS 1754A/B **Jazz Accompaniment**

2 units - full year

1 hour tutorial per week

Restriction: VET music students only - consult relevant Academic Program Rules

Assessment: weekly class exercises/participation 50%, end of semester practical exams 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 hour workshop per week

Restriction: VET music students only - consult relevant Academic Program Rules

Assessment: theoretical exams 50%, practical exams 50%

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 hour workshop per week

Restriction: VET music students only - consult relevant Academic Program Rules

Assessment: theoretical exams 50%, practical exams 50%

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

Restriction: 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

Restriction: VET music students only - consult relevant Academic Program Rules

Assessment: end of semester exams

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

Restriction: 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

Restriction: 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

Restriction: VET music students only - consult relevant Academic Program Rules

Assessment: end of semester exams

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 1850A/B Individual Tuition (Class Dip)

4 units - full year

24 hours individual tuition

Restriction: VET music students only - consult relevant Academic Program Rules

Assessment: sem 1: teacher assessment 5%, 10 min. practical exam 30%; sem 2: teacher assessment 5%, 15 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 1851A/B Ensemble (Classical Diploma)

3 units - full year

3 hours rehearsal per week (1.5 hours supervised)

Restriction: VET music students only - consult relevant Academic Program Rules

Corequisite: VETMUS 1755, VETMUS1756

Assessment: 2 exams (20 min. playing time)

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 classical music.

VETMUS 1852A/B **Classical Diploma Forum**

1 unit - full year

1.5 hours VET/Practical Study Forum

Restriction: VET music students only - consult relevant Academic Program Rules

Assessment: attendance, participation

The course provides listening, performing and critical analysis experience. All enrolled students will perform at least one solo item and will be asked for comments concerning the performances being audited

VETMUS 1853A/B **Music Language Studies**

4 units - full year

2 hour workshop

Restriction: VET music students only

Assessment: end of semester exams

Students will study and apply theoretical and constructional concepts in music through discussion, examination and evaluation of the principal developments in classical music compositional practice during the 18th, 19th and 20th centuries.

VETMUS 1855A/B **Keyboard Musicianship (Classical Dip) Minor**

2 units - full year

1 hour workshop per week

Restriction: 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, keyboard techniques and styles with particular reference to the principal developments in classical music compositional practice during the 18th, 19th and 20th centuries.

VETMUS 1856A/B **Keyboard Musicianship (Classical Dip) Major**

2 units - full year

1 hour workshop per week

Restriction: VET music student only - consult relevant Academic Program Rules

Assessment: end of semester exams

Students will expand their skills and knowledge in applied harmony, keyboard musicianship, keyboard techniques and styles with particular reference to the principal developments in classical music compositional practice during the 18th, 19th and 20th centuries.

VETMUS 1911A/B **Audio Studies (Cert IV)**

4 units - full year

1 hour lecture, 1 hour tutorial per week

Restriction: VET music students only - consult relevant Academic Program Rules

Assessment: technical & creative assignments, exams

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 may include Cubase, GarageBand, Logic, Pro Tools, Reason and Live.

VETMUS 1912A/B **MIDI Studies (Cert IV)**

4 units - full year

1 hour lecture, 1 hour tutorial per week

Restriction: VET music students only - consult relevant Academic Program Rules

Assessment: technical & creative assignments, exams

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, systems setup, software and hardware implementation, virtual instrumentation, MIDI scoring and performance and advanced techniques. Software may include ProTools, Cubase, Logic and Reason.

VETMUS 1913A/B **Music Technology Forum (Cert IV)**

3 units - full year

2 hour workshop per week

Restriction: VET music students only - consult relevant Academic Program Rules

Assessment: technical & creative assignments & presentations

Students will embrace and extend the concepts of music technology. This will be achieved through the development of creative and technical skills in workshop topics, project participation, performance, industry and artist talks and presentations.

VETMUS 1951A/B **Concepts of Music (Dip)**

3 units - full year

1 hour lecture, 1 hour aural session per week

Restriction: VET music students only - consult relevant Academic Program Rules

Assessment: assignments 50%, exams 50%

Theory: Students will study and apply scales, chord types, chord progressions, digital patterns, 12-bar blues and rhythm changes in all keys. Scales will include the blues scale, modes, bebop scales, diminished and whole-tone scales.

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. Students will be allocated to an appropriate stream based on a placement test. Refer to MUSCORE 1001.

VETMUS 1952A/B Sound Engineering (Studio)

4 units - full year

3 hour workshop per week

Restriction: VET music students only - consult relevant Academic Program Rules

Assessment: technical & creative assignments

Students will learn about the process of studio sound engineering and production. Areas covered include signal flow and gain structure, studio equipment, microphone placement and selection, recording, mixing, post-production, mastering and session management.

VETMUS 1953AB Audio Studies (Diploma)

4 units - full year

1 hour lecture, 1 hour tutorial per week

Restriction: VET music students only - consult relevant Academic Program Rules

Assessment: technical & creative assignments

Students will study music software for digital 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 may include Pro Tools, Cubase, Logic and Live.

VETMUS 1954A/B MIDI Studies (Diploma)

4 units - full year

1 hour lecture, 1 hour tutorial per week

Restriction: VET music students only - consult relevant Academic Program Rules

Assessment: technical & 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 in the field of screen and media sound, arranging and composing. Areas examined include the MIDI protocol, systems setup, software and hardware implementation, virtual instrumentation, MIDI scoring and performance and advanced techniques. Software may include Pro Tools, Cubase, Logic and Reason.

VETMUS 1955A/B Music Technology Forum (Diploma)

3 units - full year

2 hour workshop per week

Restriction: VET music students only - consult relevant Academic Program Rules

Assessment: technical & creative assignments & presentations

Students will embrace and extend the concepts of music technology and sound engineering. This will be achieved through the development of creative and technical skills in workshop topics, project participation, industry presentations, talks and fulfilment.

VETMUS 1956 Sound Engineering (Live)

2 units - semester 1

2 hour workshop per week

Restriction: VET music students only - consult relevant Academic Program Rules

Assessment: technical & creative assignments

Students will learn about the process of live sound engineering, reinforcement, production and management. Areas covered include PA setup, signal flow and gain structure, live sound equipment, microphone placement and selection, troubleshooting, pre-production, setup and session management.

Viticultural Science

LEVEL II

VITICULT 2002WT Viticultural Science

4 units - semester 1

Average 7 hours per week including lectures, practicals - begins Monday of O'Week

Assumed Knowledge: OENOLOGY 1018NW, BIOLOGY 1202 or BIOLOGY 1101/1102

Assessment: O-Week attendance, final written exam, Mid-term exam, practical reports, practical exam

NOTE: Viticultural Science begins classes on Monday of O'Week - attendance at these classes is required to be able to complete the course.

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, yield estimation, canopy measurements, maturity sampling and mineral nutrition.

Approximately half the lectures will be provided from ENV BIOL 2006 and will cover topics relating to the general principles of plant biology including structure and function, systematics, floral biology and the physiology of growth and development. The lectures are intended to complement the Viticulture based lecture material with topics of whole plant biology that are common amongst most plant systems.

LEVEL III

VITICULT 3005WT **Grape Industry Practice, Policy and Communication**

2 units - semester 1

Average 6 hours per week including lectures, seminars &/or practicals

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 student's 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 3020WT **Table and Drying Grape Production**

2 units - semester 1

Average 6 hours per week including lectures, seminars, practicals &/or field work

Assessment: assignments, written exam, oral presentation on selected topic

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, post harvest 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

Average 4 hours per week including lectures, tutorials, &/or practicals

Restriction: B Sc (Viticulture) and B Oenology students only

Prerequisite: VITICULT 2002WT

Incompatible: VITICULT 3004WT, VITICULT 3018WT, VITICULT 3017WT, VITICULT 3022WT

Assessment: exams & 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 or 2

10 weeks - students must return to campus for at least 1 week in Feb/Mar for compulsory tour if enrolled in VITICULT 3020WT

Assessment: logbook, research & other projects, employers report

This course provides an opportunity for students majoring in Viticulture to experience, observe and acquire an understanding of the major activities undertaken in a typical vineyard operation. Further, this course will enable students to gain a working understanding of a vineyard, its management systems and structures. Students undertake 10 weeks work experience in approved viticultural enterprises gaining experience in a range of operations, e.g. pest and disease management, irrigation system management, yield estimation, and harvest activities, the emphasis and expectation being on gaining hands-on experience. A detailed logbook of work activities, networking exercise, vineyard benchmarking and a significant research project provide a broad perspective of the viticultural industry.

VITICULT 3044WT **Viticultural Methods and Procedures**

3 units - semester 2

Average 6 hours per week including lectures, tutorials, &/or practicals

Restriction: B.Sc.(Viticulture) students only

Assumed Knowledge: VITICULT 2002WT

Incompatible: VITICULT 3004, VITICULT 3018

Assessment: assignments, practical reports, exam

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 4006AWT/BWT Honours Viticulture

24 units - full year

40 hours a week

Prerequisite: Credit or higher in two relevant Level III courses as approved by Head of Discipline

Assessment: thesis, seminars, remainder as deemed appropriate to the student's program

This course comprises a substantial research project of the student's choosing on a topic acceptable to the Discipline of Wine and Horticulture, two seminars on that topic, and coursework, essays or other assignments deemed appropriate to the individual student's honours program.

Wine Marketing

LEVEL I

WINEMKTG 1003EX Legal Issues in Wine Marketing

3 units - semester 2

External only

Assessment: exam, assignments

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 and food marketing.

WINEMKTG 1008EX Introduction to Managerial & Financial Accounting

3 units - semester 1 or 2

External only

Assessment: Written exams (open book), assignments

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/1013WT Wine and Food Marketing Principles

3 units - semester 1

External, Internal - up to 3 hours per week (including lectures, tutorials)

Assessment: to be advised

The aim of this course is to give 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

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, 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/WT **Wine and Society**

4 units - semester 1

External, Internal - up to 3 hours per week (including lectures, tutorials)

Assumed Knowledge: WINEMKTG 1013WT/1013EX

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/2003WT **International Wine Law**

4 units - semester 1

External, Internal - up to 3 hours per week (including lectures, tutorials)

Assumed Knowledge: WINEMKTG 1003EX or COMMLAW 1004

Assessment: to be advised

The course will cover import and export licensing, labelling 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 **Strategic Marketing Management**

4 units - semester 2

External

Prerequisite: WINEMKTG 1013WT/1013EX

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/2011WT **Applied Marketing Research**

4 units - semester 2

External, Internal - /p to 3 hours per week (including lectures, tutorials)

Prerequisite: WINEMKTG 1013WT/1013EX

Assumed Knowledge: ECON 1008 or WINEMKTG 1015EX

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 organisations. Dealing with a market research organisation 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/2014WT
International Marketing of Wine & Agricultural Products

4 units - semester 2

External, Internal - up to 3 hours per week (including lectures, tutorials)

Assumed Knowledge: WINEMKTG 1013WT/1013EX

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

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

Up to 4 hours per week (incl. lectures, tutorials, practicals)

Assumed Knowledge: WINEMKTG 1013WT/EX, ECON 1008 or WINEMKTG 1015EX

Assessment: theory, practical exam, case studies, other assignments

Note: This course involves teaching sessions that may be attended by both Undergraduate and Postgraduate students.

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 modelling, Monte Carlo simulation, decision analysis under risk, and time series forecasting.

LEVEL III

WINEMKTG 3006EX/3006WT
Global Wine Market

4 units - semester 1

External, Internal - up to 3 hours per week (including lectures, tutorials)

Restriction: B. Wine Marketing students only

Prerequisite: WINEMKTG 1013WT/1013EX

Assessment: to be advised

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 3014EX/3014WT
Food Marketing

4 units - semester 1

External, Internal - up 3 hours per week (including lectures, tutorials)

Assumed Knowledge: 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 labelling, consumer food consumption trends, food marketing strategies, and value-adding in Australian food and beverage industries.

WINEMKTG 3028EX/3028WT **Winery Business Management III**

4 units - semester 2

External, Internal - up 3 hours per week (including lectures, tutorials)

Restriction: B.Wine Marketing students only

Prerequisite: WINEMKTG 1008EX, WINEMKTG 1013WT/1013EX or WINEMKTG 2010WT/EX, or equiv

Assessment: assignments & full-integrated winery strategic business plan major 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/3034WT **Advertising and Promotion III**

4 units - semester 1

External, Internal - up 3 hours per week (including lectures, tutorials)

Assumed Knowledge: WINEMKTG 1013WT/1013EX

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/3040WT **Wine Retail and Distribution Management**

4 units - semester 2

External, Internal - up 3 hours per week (including lectures and tutorials)

Prerequisite: WINEMKTG 1013WT/1013EX

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 and practical case studies.

WINEMKTG 3047EX **Internet Marketing and E-Commerce**

4 units - semester 1

External

Prerequisite: WINEMKTG 1013WT/1013EX

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/3049WT **Wine & Food Tourism & Festivals**

4 units - semester 1

External, Internal - 2 hours of lectures, 1 hour tutorial

Assumed Knowledge: WINEMKTG 1013WT/EX

Assessment: assignments and final exam

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/3065WT **Database Marketing for Food and Wine Business**

4 units - semester 2

External, Internal - up 4 hours per week (including lectures, practicals, tutorials)

Prerequisite: WINEMKTG 1013WT/1013EX

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 4007AWT/BWT **Honours Wine Marketing**

24 units - full year

Prerequisite: B.Wine Marketing, at least credit average in appropriate Level III courses, or equiv 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 decide to substitute some coursework for part of the research, however, a single mark based on 24 units will be assessed.

Index of Academic Programs

Certificates (VET):

Music (Certificate III).....	252
Music (Classical) (Certificate IV)	252
Music (Jazz) (Certificate IV).....	252
Music (Technology) (Certificate IV)	252

Associate Diploma/Diploma:

Aboriginal Studies in Music (New).....	2
Instrumental Music.....	259
Languages	197
Music (Classical).....	252
Music (Jazz)	252
Music (Sound Engineering)	252
Wine Marketing	283

Bachelor Degrees:

Agriculture	284
Arts	199
Arts (Honours)	229
Arts and Science	340
Business Information Technology.....	14
Design Studies	6
Development Studies.....	214
Development Studies (Honours).....	231
Commerce	18
Commerce (Accounting).....	18
Commerce (Corporate Finance)	18
Commerce (International Business)	18
Commerce (Management).....	18
Commerce (Marketing)	18
Computer Graphics	51
Computer Science.....	55
Computer Sciences (Software Engineering).....	55
Dental Surgery	156
Economics	32
Economics (International Agricultural Business).....	37
Engineering.....	59
Environmental Policy and Management.....	217
Environmental Studies (Honours)	233
Finance.....	24
Finance (International).....	24
Finance (Quantitative)	24
Food Science and Technology.....	287
Health Sciences	160

International Studies	220
International Studies (Honours).....	235
Laws	244
Mathematical Sciences	142
Mathematical and Computer Sciences	147
Media	223
Media (Honours).....	237
Medical Science (Honours).....	176
Medicine and Surgery.....	169
Music	261
Music Education	261
Music Studies	261
Music (Honours)	261
Music Education (Honours)	261
Music Studies (Honours)	261
Music - Single Studies	272
Nursing.....	177
Oenology	289
Oral Health.....	181
Psychological Science	185
Psychology (Honours).....	188
Rural Enterprise Management.....	291
Science	293
Science in Dentistry (Honours)	192
Science (Agricultural Science).....	300
Science (Animal Science)	302
Science (Animal Science Pre-Veterinary)	304
Science (Biomedical Science)	306
Science (Biotechnology)	308
Science (Ecochemistry)	310
Science (Evolutionary Biology).....	312
Science (High Performance Computational Physics) (Honours).....	315
Science (Jurisprudence)	317
Science (Marine Biology)	319
Science (Molecular and Drug Design)	321
Science (Molecular Biology)	323
Science (Nanoscience and Materials)	325
Science (Natural Resources)	327
Science (Optics & Photonics)	329
Science (Petroleum GeoScience)	331
Science (Space Science and Astrophysics)	333
Science (Viticulture)	335
Social Sciences	226
Social Sciences (Honours).....	239
Teaching	44
Wine Marketing	337

Index of Courses

A

A Festival of Contemporary Writing	457, 459	Advanced Molecular Biology IIIB (Genetics).....	479
Aboriginal Music in Australia II/III	572	Advanced Music Seminar IIIB.....	572
Aboriginal People and the Law.....	511	Advanced Programming Paradigms	390
Aboriginal Peoples and the Colonial World	495, 498	Advanced Property Law.....	514
Accompanying II.....	565	Advanced Public Law.....	518
Accompanying III	573	Advanced Reinforced Concrete.....	439
Accounting Curriculum and Methodology (UG) ..	415	Advanced Separation Techniques & Thermal Processes	443
Accounting Method I.....	348	Advanced Synthetic Methods III.....	377
Accounting Theory III.....	349	Advanced Systems Physiology	599
Accreditation for Mediators	521	Advanced Systems Physiology III (Med Surg).....	600
Acute and Chronic Care 1	546	Advanced Telecommunications	445
Acute and Chronic Care 2	548	Advanced Topics in Aerospace Engineering	453
Adelaide Law Review A	512	Advanced Topics in Fluid Mechanics.....	449
Adelaide Law Review B.....	512	Advanced Vibrations.....	449
Adelaide Voices I.....	554	Advances in Oenology	581
Adelaide Voices II part 1	560	Advertising and Promotion III.....	636
Administrative Laws.....	508	Aerodynamics	537
Adult Learner Curriculum & Methodology (UG)...	415	Aeronautical Engineering.....	434
Advanced Advocacy	518	Aerospace Design Project Level IV.....	452
Advanced Agronomy	353	Aerospace Honours Project Level IV.....	456
Advanced Automatic Control	449	Aerospace Materials and Structures	435
Advanced Chemical Engineering	443	Aerospace Navigation and Guidance.....	450
Advanced Computer Aided Engineering	436	Aerospace Propulsion I.....	450
Advanced Digital Control	452	Aerospace Propulsion II.....	450
Advanced Dynamics and Relativity.....	596	Afterlife and Underworld in Antiquity	384, 386
Advanced Educational Studies A	414	Agricultural Experience I Part 1	351
Advanced Educational Studies B.....	414	Agricultural Experience II.....	352
Advanced Electromagnetics	445	Agroforestry.....	352
Advanced Environmental Design & Cleaner Production	444	Airconditioning	449
Advanced Managerial Decision Making and Risk Analysis	455	Aircraft Design.....	453
Advanced Manufacturing and Quality Systems ..	452	Alexander the Great & the Decline of Greece	383, 385
Advanced Molecular Biology A	370	Algebra II.....	532
Advanced Molecular Biology B	371	Alternative Dispute Resolution	518
Advanced Molecular Biology IIIA (Biochemistry)	372	Analog Microelectronic Systems.....	448
Advanced Molecular Biology IIIA (Genetics).....	479	Analysis of Rivers and Sediment Transport.....	442
Advanced Molecular Biology IIIB (Biochemistry)	372	Analytical Chemistry II.....	376
		Analytical Chemistry II (Ecochemistry).....	376
		Analytical Chemistry II (Nanoscience & Materials)	376

Biochemistry II (Biotechnology) B	371	Chemical Engineering Thermodynamics	425
Biochemistry II (Molecular Biology) A	370	Chemical Process Principles II	425
Biochemistry II (Molecular Biology)	371	Chemistry and Introductory Biochemistry A.....	601
Biochemistry IIA	370	Chemistry Curriculum and Methodology (UG) ...	415
Biochemistry IIA (Med Surgery)	371	Chemistry IA	373
Biochemistry IIB.....	371	Chemistry IB	373
Biochemistry IIB (Med Surgery).....	372	Chemistry IIA	374
Biogeography and Biodiversity Conservation	481, 483	Chemistry IIA (Ecochemistry)	374
Biology Curriculum and Methodology (UG).....	415	Chemistry IIA (Mol Biol)	374
Biology of Disease II.....	584	Chemistry IIA (Molecular & Drug Design).....	375
Biomechanical Engineering	453	Chemistry IIA (NanoScience & Materials).....	375
Biotechnology in the Food & Wine Industries.....	602	Chemistry IIAE	374
Botany II	463	Chemistry IIB	375
Broadcast: Television & Radio	540	Chemistry IIB (Ecochemistry).....	375
Business Data Analysis I	408	Chemistry IIB (Mol Biol).....	375
Business Finance II	393	Chemistry IIB (Molecular and Drug Design).....	376
Business Management for Applied Sciences	350	Chemistry IIB (NanoScience & Materials)	376
Business Studies Curriculum & Method (UG)	415	Chemistry IIBE	375
		Chemistry III.....	377
		China Rising.....	606, 608
		Chinese Curriculum and Methodology (UG).....	415
		Chinese for Chinese Speakers IIIA.....	381
		Chinese for Chinese Speakers IIIB.....	381
		Chinese IA.....	378
		Chinese IB	378
		Chinese ISA	379
		Chinese ISB.....	379
		Chinese IIA.....	379
		Chinese IIB	380
		Chinese IISA	380
		Chinese IISB.....	380
		Chinese IIIA.....	380
		Chinese IIIB	380
		Chinese IIISA	381
		Chinese IIISB.....	381
		Chinese Literature & Media.....	379
		Choral Masterworks I	557
		Choral Masterworks I	564
		Choral Masterworks III	573
		Civil and Criminal Procedure	517
		Civil and Environmental Engineering IA	419
		Civil and Environmental Research Project	439
		Civil and Struct Engineering Research Project ...	379
		Classical Fields and Mathematical Methods II	593
C			
Capital Gains Tax and the Taxation of Entities.....	520		
Career Management	625		
Cell and Developmental Biology III.....	372		
Cellar and Winery Waste Management.....	581		
Cells and Tissues II.....	355		
Cells, Tissues & Development II.....	354		
CFD for Engineering Applications	452		
Chamber Music IA.....	555		
Chamber Music IB	555		
Chamber Music IIA.....	560		
Chamber Music IIB	560		
Chamber Music IIIA	567		
Chamber Music III.....	568		
Chamber Orchestra I	554		
Chamber Orchestra I	559		
Chamber Orchestra III	567		
Chemical Applications III.....	377		
Chemical Engineering Projects.....	431		
Chemical Engineering Projects IV.....	444		
Chemical Engineering Research Elective	444		
Chemical Engineering Research Elective II	442		
Chemical Engineering Research Project (H)	444		
Chemical Engineering Research Project (N)	444		

Classical Diploma Forum	630	Comparative Constitutional Law.....	518
Classical Mechanics II	593	Comparative Equality & Anti-Discrimination Law 2	519
Classical Mythology	383, 385	Comparative Equality & Anti-Discrimination Law 4	520
Classical Performance I	558	Comparative Law.....	519
Classical Performance II	565	Comparative Native Title: Australia & Canada	520
Classical Performance III	574	Comparative Politics.....	605, 607
Classics: From Ancient Greece to Rome	382	Comparative Reproductive Biology of Mammals	356
Classics: From Egypt to Ancient Greece.....	382	Complex Analysis III.....	537
Classroom Music Curriculum & Methodology (UG)	415	Composition I	553
Climate Change & Catchment Management	482, 484	Composition II	558
Clinical Elective & Specials Weeks VI	549	Composition III	566
Clinical Legal Education	522	Composition Class.....	629
Clinical Practice IOH	582	Computational Fluid Dynamics (Engineering)	537
Clinical Practice IIOH	583	Computational Mathematics III	533
Clinical Practice IIIOH	584	Computational Physics III.....	595
Clinical Skills I	544	Computer Architecture.....	390
Clinical Skills II	545	Computer Graphics	391
Clinical Skills III	545	Computer Methods of Structural Analysis.....	439
Coastal Engineering and Design.....	440	Computer Networks and Applications	389
Coding and Cryptology III	537	Computer Science Concepts	388
Cognition III.....	614	Computer Science IA	388
Cognitive Science: Minds, Brains and Computers.....	587, 589	Computer Science IB.....	388
Colonial and Contemporary Issues in South Asian Architecture II.....	402	Computer System Security.....	392
Colonial and Contemporary Issues in South Asian Architecture III.....	404	Computer Systems.....	388
Combined Honours Public Health & Philosophy..	617	Computer Vision.....	392
Combined Honours Public Health/Politics	617	Concepts in Ecology EBIII	465
Combustion Processes	444	Concepts of Music (C4)	627
Combustion Technology & Emissions Control	448	Concepts of Music (Dip)	630
Commercial Equity	515	Conducting IIA.....	565
Commercial Law and the Market.....	510	Conducting IIB	565
Commercial Law I(S)	387	Conducting IIIA.....	573
Commercial Law II.....	387	Conducting IIIB	573
Common Program.....	547, 548	Conflict of Laws	515
Communication in the Agri-Food Industry.....	603	Conservation and Restoration	464
Communication Network Design.....	538	Conservation in the Built Environment II.....	402
Communication Skills III.....	536	Conservation in the Built Environment III.....	404
Communications IV	445	Conservation Law	522
Communications, Signals & Systems.....	432	Construction and Design: Theories & Practice	401
Companion Animal and Equine Studies	358	Construction and Surveying	423
Comparative Anatomy of Body Systems II	355	Consumer Behaviour II.....	528
Comparative Animal Physiology	359	Consumer Behavioural Analysis.....	635
		Consumer Protection & Unfair Trading	511

Consumers, Firms & Markets II.....	410	Dental and Health Science IIIOH.....	584
Consumers, Food and Health	468	Dental Clinical Practice I.....	395
Consuming Passions: Anthropology of Food and Drink.....	362, 365	Dental Clinical Practice II.....	396
Contemporary China: Politics and Society	367, 369	Dental Clinical Practice III.....	397
Contemporary Japan: Culture and Identity.....	368, 369	Dental Clinical Practice IV	398
Contrapuntal Analysis & Composition I.....	557	Dental Clinical Practice	399
Control III	432	Dental Hygiene Clinical Practice	584
Copyright Law	625	Dental Selectives IV.....	398
Corporate Accounting III.....	349	Dental Selectives V.....	400
Corporate Finance.....	521	Design for Sustainable Community.....	405
Corporate Finance Theory III	394	Design Graphics	422
Corporate Insolvency Law	523	Design Graphics and Communication M	422
Corporate Investment and Strategy III	394	Design Practice.....	427
Corporate Law	508	Design Project	446
Corporate Responsibility for Global Business III..	501	Development Economics III	411
Corrosion Principles and Prevention.....	453	Development Geology	454
Crime and Punishment.....	587, 589	Developmental Psychology III	612
Criminology	516	Differential Equations and Fourier Series.....	530
Critical Histories of the Image.....	541	Differential Equations and Statistical Methods (Civil)	532
Crop and Pasture Ecology	353	Differential Equations III	535
Culture & Society: Foundations of Anthropology	361	Digital Electronics.....	432
Culture, Education & Society (UG).....	419	Digital Media II.....	404
Cultures, Histories and Designed Environments .	404	Digital Media Studio.....	406
Curriculum & Assessment of Learning (UG)	419	Digital Microelectronics	446
Curriculum and Methodology B	414	Directed Study in Media.....	544
Curriculum Issues in Australian Schools A	414	Discrete Mathematics II.....	532
D			
Dangerous Liaisons: Writing Out of Africa	457, 460	Diseases and Disorders of the Body IIID.....	397
Data Analysis for Wine and Food Business	633	Dissertation Honours Law.....	523
Data Management and Interpretation	622	Distillation, Fortified & Sparkling Winemaking.....	581
Data Structures and Algorithms	389	Distributed Databases and Data Mining.....	393
Database and Information Systems	389	Distributed Systems	391
Database Marketing for Food & Wine Business...	636	Drilling Engineering.....	428
Decision Making Under Uncertainty.....	455	Drugs, Chemicals and Health.....	585
Deep Foundation Engineering and Design	440	Drugs, Chemicals and the Environment.....	585
Dental and Health Science I.....	394	Dynamics	422
Dental and Health Science II.....	396	Dynamics and Control I.....	427
Dental and Health Science III.....	397	Dynamics and Control II.....	435
Dental and Health Science IV.....	398	E	
Dental and Health Science V.....	399	Early Modern Europe	496, 499
Dental and Health Science IOH.....	582	Earth's Environment I.....	486
Dental and Health Science IIOH.....	583	Earth's Interior I	485
		East Asian Economies II.....	409

Eastern Mediterranean Archaeological Field School.....	384, 386	Engineering Computing	421
Ecology and Management of Rangelands	353	Engineering Electromagnetics.....	426
Ecology and Management of Vertebrate Pests ...	359	Engineering Management and Planning	429
Ecology E	463	Engineering Management and Professional Practice	451
Ecology EB II.....	463	Engineering Management IV	439
Econometrics III.....	412	Engineering Mathematics III	534
Economic & Mine Geology	487	Engineering Mechanics - Dynamics	422
Economic and Financial Data Analysis II.....	409	Engineering Mechanics - Statics	420
Economic Theory III	412	Engineering Modelling and Analysis I.....	419
Economics Curriculum and Methodology (UG)...	415	Engineering Modelling and Analysis II.....	423
Economics of Resource Management III.....	350	Engineering Modelling and Analysis III.....	429
Ecophysiology of Animals III	463	Engineering Planning and Design IA.....	419
Ecophysiology of Plants III.....	464	Engineering Systems Design and Communication.....	435
Education in Physics with Industrial Cooperation A	596	Engineering, Modelling and Analysis IA	420
Education in Physics with Industrial Cooperation B	596	English as a 2nd Language Curriculum & Method (UG).....	415
Elder Conservatorium Chorale I.....	554	English for Professional Purposes.....	457, 460
Elder Conservatorium Chorale II.....	559	Enhanced Oil Recovery.....	454
Elder Conservatorium Chorale III.....	567	Ensemble (Cert III)	626
Elder Conservatorium Symphony Orchestra I....	553	Ensemble (Cert IV)	626
Elder Conservatorium Symphony Orchestra II....	559	Ensemble (Classical Diploma)	629
Elder Conservatorium Symphony Orchestra III...	566	Environment & Development.....	482, 484
Elder Conservatorium Wind Orchestra I	554	Environmental and Architectural Acoustics.....	450
Elder Conservatorium Wind Orchestra II	559	Environmental Chemistry II.....	374
Elder Conservatorium Wind Orchestra III.....	566	Environmental Dispute Resolution	519
Electric Energy Systems	433	Environmental Economics E III	411
Electric Energy Systems M	433	Environmental Engineering	444
Electrical & Electronic Engineering IA	421	Environmental Engineering and Design III.....	429
Electrical & Electronic Engineering IB.....	422	Environmental Engineering II.....	424
Electrical Engineering IM	421	Environmental Engineering III.....	428
Electromagnetism and Optics III.....	595	Environmental Geoscience Applications III.....	487
Electromagnetism II	595	Environmental Geoscience Processes III	488
Electromagnetism III.....	597	Environmental Law.....	514
Electronic Commerce III.....	501	Environmental Modelling, Management and Design.....	441
Electronics II	426	Environmental Protection Law.....	521
Electronics IIM	426	Environmental Science and Policy	430
Elements of Time Series III	624	Environmental Studies Internship	485
Embedded Computer Systems	433	Environmental Toxicology and Remediation.....	618
Emergency Medicine Internship VI	549	Epidemiology & Biostatistics IIIHS.....	616
Emotion Culture & Medicine II	611	Equity	508
Engineering Acoustics	449	Essay and Seminar.....	430
Engineering Communication & Language (ECL)..	430	Essay and Seminar (Environmental)	425
Engineering Communication ESL/EAL.....	434		

Essay and Seminar (Food, Wine & Biomolecular)	425	First Annual Oral Health Examination	582
Ethics, Science and Society II	355	First Year MBBS Examination.....	544
Ethics, Science and Society III.....	356	Fluid and Particle Mechanics	432
Ethnic Cleansing and Genocide in Modern Europe	495, 498	Fluid Mechanics III.....	533
Ethnography: Engaged Social Research.....	363, 365	Food Chemistry	470
Europe, Empire and the World 1492 - 1914.....	494	Food Engineering Principles.....	469
European Film Movements.....	467, 468	Food Marketing	635
Event Driven Computing.....	391	Food Microbiology II.....	469
Evolution and Diversity of Insects	465	Food Preservation and Packaging A	469
Evolution and Palaeobiology III	465	Food Product Development.....	470
Evolutionary Biology EB II.....	462	Food Quality and Regulation	470
Existentialism.....	589, 591	Footprints on a Fragile Planet.....	480
Expansive Soils and Footing Design.....	440	Formation Evaluation, Petrophysics & Rock Properties	428
Experimental Physics III	595	Foundation for Honours III: Music Studies	572
Expert Evidence.....	516	Foundations of Chemistry IB	373
Extended Specialist Curriculum (UG).....	415	Foundations of Entrepreneurship.....	428
External Elective	548	Foundations of Linguistics	523
		Foundations of Music History IA	557
		Foundations of Music History IB.....	557
		Foundations of Wine Science	579
		Fourth Annual B.D.S. Examination.....	398
		Fourth Year MBBS Examination	546
		Fractal Geometry III	536
		Fracture Mechanics	449
		French Curriculum and Methodology (UG).....	416
		French IA: Beginners' French	471
		French IB: Beginners' French.....	471
		French ISA: Language and Culture	471
		French ISB: Language and Culture	471
		French IIA: Language and Culture.....	471
		French IIB: Language and Culture	471
		French IISA: Language and Culture	472
		French IISB: Language and Culture.....	472
		French IIIA: Language and Culture.....	472
		French IIIB: Language and Culture	472
		French IIISA: Language and Culture.....	473
		French IIISB: Language and Culture	473
		French Studies II.....	471
		French Studies III.....	472
		Freshwater Ecology III.....	464
		From Elvis to U2 I	555
		Frontiers in Marine Biology.....	465
		FRP Retrofitting of Concrete Structures	441
		Functional Human Anatomy II	355

F

Families, Schools & Students' Outcomes (UG)....	418	Fourth Annual B.D.S. Examination.....	398
Family Law.....	510	Fourth Year MBBS Examination	546
Fashion, Work and Identity	474	Fractal Geometry III	536
Fauna Management.....	357	Fracture Mechanics	449
Feminist Legal Theory.....	513	French Curriculum and Methodology (UG).....	416
Fermentation Technology	581	French IA: Beginners' French	471
Field Geoscience Program III	489	French IB: Beginners' French.....	471
Fields and Geometry III	537	French ISA: Language and Culture	471
Fifth Annual (Final) B.D.S. Examination	399	French ISB: Language and Culture	471
Fifth Year MBBS Examination.....	547	French IIA: Language and Culture.....	471
Film Studies.....	457	French IIB: Language and Culture	471
Final (Sixth Year) MBBS Assessment.....	548	French IISA: Language and Culture	472
Finance for Engineers	451	French IISB: Language and Culture.....	472
Financial Accounting II.....	348	French IIIA: Language and Culture.....	472
Financial Computing II.....	531	French IIIB: Language and Culture	472
Financial Economics II.....	410	French IIISA: Language and Culture.....	473
Financial Institutions Management II.....	393	French IIISB: Language and Culture	473
Financial Management for Engineers.....	446	French Studies II.....	471
Financial Modelling III	535	French Studies III.....	472
Financial Modelling Techniques III	534	Freshwater Ecology III.....	464
Financial Transactions.....	512	From Elvis to U2 I	555
Finite Element Analysis of Structures	453	Frontiers in Marine Biology.....	465
Fire Engineering	451	FRP Retrofitting of Concrete Structures	441
First Annual B.D.S. Examination	394	Functional Human Anatomy II	355

G

Game Theory.....	538
Gender & Race in Australian History	474, 475
Gender, Community & Development	407
Gender, International Politics & Development	606, 608
Gender, Social Policy & Citizenship in Australia .	475, 476
Gender, Work and Society.....	474
Gene Expression and Human & Development Genetics (Biomed).....	479
Gene Expression and Human & Developmental Genetics.....	479
General English Curriculum & Methodology (UG)	416
General Microbiology.....	602
General Pathology IIIHS	585
General Studies (New) I	345
General Studies (New) II Pt 2	347
General Studies ID.....	395
General Studies IID.....	397
General Studies IOH.....	583
General Studies IIOH.....	583
Genes and Inheritance	358
Genes, Genomes and Molecular Evolution.....	479
Genetics IIA (Biomedical Science).....	477
Genetics IIA (Med Surg).....	478
Genetics IIA (Molecular Biology)	477
Genetics IIA: Foundation of Genetics.....	477
Genetics IIB (Biomedical Science).....	478
Genetics IIB (Med Surg)	478
Genetics IIB (Molecular Biology).....	478
Genetics IIB: Function & Diversity of Genomes ...	478
Geography Curriculum & Methodology (UG).....	416
Geology for Engineers	485, 486
Geophysics III	487
Geotechnical Engineering Design III.....	429
Geotechnical Engineering II.....	423
German Curriculum and Methodology (UG).....	416
German IA: Beginners' German	490
German IB: Beginners' German.....	490
German in Germany.....	491, 492
German Special Topic II.....	491
German Special Topic III.....	493
German Studies ISA.....	490
German Studies ISB.....	491
German Studies IIA: Language and Culture	491

German Studies IIB: Language and Culture.....	491
German Studies IISA: Language and Culture	492
German Studies IISB: Language and Culture	492
German Studies IIIA: Language and Culture	492
German Studies IIIB: Language and Culture.....	492
German Studies IIISA: Language and Culture.....	493
German Studies IIISB: Language and Culture	493
GIS for Agricultural Sciences.....	619
GIS for Environmental Management.....	618
Global Media: Policies & Practices	542
Global Wine Market.....	635
Globalisation, Justice and a Crowded Planet.....	480
Grape Industry Practice, Policy and Communication.....	632
Groups and Rings III.....	536

H

Health Promotion IIIHS.....	616
Health Psychology III.....	613
Heat Transfer	434
Heterocyclic Chemistry & Molecular Devices III ..	377
High Integrity Software Engineering	392
High-Speed Aerodynamics.....	451
History & Literature.....	625
History Curriculum and Methodology (UG)	416
History of Indigenous Peoples of Australia A	494, 497
History of Settlements.....	401
History of 20th Century Music	626
Hollywood or Bust!	458, 460
Honours Agricultural Science.....	351
Honours Agronomy & Farming Systems	354
Honours Anaesthesia and Intensive Care	549
Honours Anatomical Sciences.....	357
Honours Ancient Greek.....	386
Honours Animal Science	360
Honours Anthropology	366
Honours Applied Mathematics	539
Honours Applied Mathematics & Computer Science	539
Honours Applied Mathematics & Statistics.....	539
Honours Asian Studies.....	369
Honours B.Environmental Science (Chemistry)...	378
Honours B.Environmental Science (Environmental Biology)	466

Honours B.Environmental Science (Geology)	490	Honours Media	544
Honours Biochemistry.....	373	Honours Medicine	549
Honours Botany and Geology	466	Honours Microbiology and Immunology.....	553
Honours Chemistry	378	Honours Music Education.....	575
Honours Chinese Studies.....	381	Honours Music Pedagogy.....	576
Honours Classical Studies	387	Honours Music Technology.....	575
Honours Clinical Nursing	578	Honours Musicology (BA).....	575
Honours Commerce	387	Honours Musicology (BMus)	575
Honours Composition	574	Honours Obstetrics and Gynaecology	579
Honours Computer Science.....	393	Honours Oenology	582
Honours Computer Science & Pure Mathematics	540	Honours Orthopaedics and Trauma.....	549
Honours Creative Writing.....	462	Honours Paediatrics	549
Honours Dentistry	399	Honours Pathology.....	585
Honours Design Studies	406	Honours Performance	576
Honours Economics.....	413	Honours Petroleum Geology and Geophysics ...	598
Honours English	461	Honours Pharmacology	586
Honours Environmental Biology.....	466	Honours Philosophy.....	591
Honours Environmental Biology (B.Nat Res.)	466	Honours Philosophy & Pure Mathematics.....	540
Honours Environmental Geoscience.....	489	Honours Physics.....	598
Honours Environmental Science (Soil & Land Systems).....	620	Honours Physiology	601
Honours Ethnomusicology (BA)	574	Honours Plant Science.....	604
Honours Ethnomusicology (BMus)	574	Honours Plant Science (B.Ag.Sc.)	603
Honours European Studies.....	468	Honours Politics	610
Honours Finance	413	Honours Primary Health Care.....	477
Honours Food Science & Technology	470	Honours Project.....	456
Honours French Studies	473	Honours Psychiatry	611
Honours Gender, Work and Social Inquiry	476	Honours Psychology	614
Honours Genetics.....	480	Honours Public Health	617
Honours Geographical & Environmental Policy & Management	485	Honours Pure Mathematics	540
Honours Geology	489	Honours Pure Mathematics & Statistics	540
Honours Geophysics.....	489	Honours Research and Writing.....	523
Honours German Studies	493	Honours Soil & Land Systems	619
Honours History	499	Honours Soil & Land Systems (B.Ag.).....	620
Honours in Agricultural Science.....	351	Honours Soil & Land Systems (B.Ag.Sc.).....	620
Honours in Horticulture.....	500	Honours Soil & Land Systems (BNR).....	619
Honours International Studies	502	Honours Soil Science (B.Ag).....	620
Honours Japanese Studies	504	Honours Soil Science (B.Sc.)	620
Honours Latin	506	Honours Statistics	624
Honours Linguistics.....	526	Honours Statistics & Computer Science	625
Honours Mathematical Physics	598	Honours Statistics & Genetics.....	625
Honours Mathematical Physics & Pure Mathematics	540	Honours Viticulture	633
Honours Mathematical Sciences.....	539	Honours Wine Marketing	637
		Honours Wine Science.....	582
		Horticulture Systems.....	500

Housing Law.....	516	Individual Differences III.....	613
Human Biology IA.....	354	Individual Studies (Ag).....	352
Human Biology IB.....	354	Individual Study Rural Enterprise Management ..	351
Human Biology ID.....	395	Individual Tuition (C3).....	626
Human Biology IOH.....	582	Individual Tuition (C4).....	626
Human Biology IIOH.....	583	Individual Tuition (Class Dip).....	629
Human Environments: Design and Representation.....	401	Individual Tuition (Jazz Diploma).....	628
Human Physiology IIA (Biomedical Science).....	599	Indonesian Curriculum & Methodology (UG).....	416
Human Physiology IIA: Heart, Lungs and Circulation.....	598	Indonesian In-Country.....	500
Human Physiology IIB (Biomedical Science).....	599	Industrial Economics and Management.....	443
Human Physiology IIB: Homeostasis & Nervous System.....	599	Industrial Mathematics III.....	534
Human Physiology IIIA (Biomedical Science).....	600	Industrial Statistics III.....	623
Human Physiology IIIB (Biomedical Science).....	601	Industry Experience (Oenology) A.....	581
Human Relations III.....	613	Industry Experience (Viticulture) A.....	632
Human Reproductive Health.....	548	Industry Practicum (Maths. & Comp. Sc.).....	538
Human Reproductive Health III.....	579	Infection & Immunity A (Biomedical Science).....	552
Human Resource Management III.....	527	Infection and Immunity A.....	551
Human Rights Internship Programme.....	510	Infection and Immunity B.....	552
Human Rights: International & National Perspectives.....	514	Infection & Immunity B (Biomedical Science).....	552
Human Sciences IA.....	576	Information Systems I.....	500
Human Sciences IB.....	576	Information Technology Curriculum & Method (UG).....	416
Human Sciences 2A.....	577	Innovation and Creativity.....	438
Human Sciences 2B.....	577	Instrumental Music Curriculum & Method (UG)...	416
Human Sciences 3A.....	578	Instrumental Music Pedagogy II.....	564
Human Sciences 3B.....	578	Instrumental Music Pedagogy III.....	572
		Integrated Catchment Management III.....	465
		Integrated Field Development and Economics Project.....	455
		Integrated Pest Management A.....	603
		Integrated Reservoir Management.....	454
		Integrated Weed Management.....	602
		Integration and Analysis III.....	536
		Integrative and Comparative Neuroanatomy.....	356
		Intellectual Property Law.....	513
		International Agribusiness Environment.....	350
		International Agribusiness Environment III.....	350
		International Business II.....	501
		International Economic History III.....	412
		International Environmental Law.....	519
		International Finance III.....	412
		International Financial Institutions & Markets I....	408
		International Health III.....	615
		International Justice and the Rule of Law.....	523
		International Management III.....	527
I			
ICT for Development.....	363, 365		
Igneous and Metamorphic Geology II.....	486		
Igneous and Metamorphic Geology III.....	488		
Image, Text and Representation.....	473		
Imaging Our World.....	402		
Immigration And Refugee Law.....	520		
Immunology and Virology II.....	550		
Immunology and Virology II (Biomedical Sc).....	551		
Immunology and Virology II (Biotechnology).....	551		
Imperial Russia.....	495, 497		
Improvisation 1.....	627		
Income Tax Law III.....	388		
Indigenous Health II.....	476		
Indigenous Health IHS.....	477		

International Marketing III	528	Introductory Geographic Information Systems ...	482, 484
International Marketing of Wine & Agricultural Products	635	Introductory Grape and Wine Knowledge	579
International Studies (core topic)	502	Introductory Process Fluid Mechanics	425
International Trade and Investment Policy II.....	409	Introductory Quantum Mechanics and Applications II.....	593
International Trade III	411	Introductory Winemaking	580
International Wine Law	634	Islam, Army & State: Indonesia Since 1945	495, 497
Internet Commerce II	501	Islamic Architecture and Gardens II	402
Internet Computing	388	Islamic Architecture and Gardens III.....	405
Internet Marketing and E-Commerce	636	Issues in Australian Agribusiness	349
Introduction to the Petroleum Industry & Petroleum Geosciences	422	Issues in Australian Agribusiness II	349
Introducing Social Anthropology	360	Issues in Australian Politics.....	607, 610
Introduction to Advocacy.....	518	Issues in Contemporary Education.....	414
Introduction to Australian Law.....	506	Issues in Evolutionary Biology.....	465
Introduction to Australian Politics	604	Issues in Sustainable Environments.....	466
Introduction to Bio-Processing	420	Italian Curriculum and Methodology (UG)	416
Introduction to Biochemical Engineering.....	431		
Introduction to Biomedical Engineering.....	452	J	
Introduction to Business Management	350	Japanese Curriculum and Methodology (UG)	416
Introduction to Chinese Society and Culture	366	Japanese for Research A	504
Introduction to Comparative Politics.....	604	Japanese IA	502
Introduction to Development Studies	407	Japanese IB.....	502
Introduction to Electronic Defence Systems.....	448	Japanese ISA.....	503
Introduction to Engineering in Agriculture.....	352	Japanese IS	503
Introduction to English: Gothic.....	456	Japanese IIA	503
Introduction to English: Ideas of the Real	456	Japanese IIB	503
Introduction to Environmental Impact Assessment	481, 483	Japanese IISA.....	503
Introduction to Environmental Law	439	Japanese IIS	503
Introduction to Financial Mathematics I	529	Japanese IIIA	503
Introduction to Gender Studies	474	Japanese IIIB.....	504
Introduction to International Politics	604	Japanese IIISA	504
Introduction to Japanese Society and Culture.....	367	Japanese IIIS.....	504
Introduction to Latin and Ancient Greek I	382	Jazz Accompaniment	628
Introduction to Latin and Ancient Greek IIS.....	383	Jazz Arranging Class II	562
Introduction to Managerial & Financial Accounting	633	Jazz Big Band: Level I.....	553
Introduction to Mathematical Statistics II.....	622	Jazz Big Band: Level II.....	559
Introduction to Media: Digital Revolutions	540	Jazz Big Band: Level III.....	566
Introduction to Mining Engineering IA	420	Jazz Choir: Level I.....	553
Introduction to Pharmaceutical Engineering.....	420	Jazz Choir: Level II	558
Introduction to Public International Law	507	Jazz Choir: Level III.....	566
Introduction to Software Engineering	389	Jazz Diploma Forum.....	628
Introduction to Petroleum Engineering	422	Jazz Diploma Workshop.....	628
Introduction to Theory & Analysis of Music I.....	556	Jazz Forum.....	628
		Jazz Guitar Band: Level I.....	554

Jazz Guitar Band: Level II.....	559	Language and Communication Planning	524, 525
Jazz Guitar Band: Level III.....	567	Language and Ethnography of Communication ..	523
Jazz Improvisation I.....	556	Language and Meaning.....	524, 525
Jazz Improvisation II.....	562	Language Learning.....	524, 526
Jazz Improvisation III.....	570	Language Methodology (UG)	417
Jazz Masterclass.....	628	Language Translators.....	392
Jazz Performance I	555	Languages Education for TESOL (UG)	418
Jazz Performance I (VET)	627	Laplace Transforms & Probability & Statistical Methods	623
Jazz Performance II	561	Latin I.....	505
Jazz Performance III	569	Latin IIA	505
Jazz Piano Class 1	627	Latin IIB	505
Jazz Styles 1	627	Latin IIS	505
Jazz Theory I.....	627	Latin IIIA	505
Jazz Theory for Music Education III.....	571	Latin IIIB	506
Jessup Moot.....	520	Latin IIISA.....	506
Junior Mathematics Curriculum & Methodology (UG)	417	Latin IIISB	506
Junior Science Curriculum & Methodology (UG)	417	Law of Contract 1	507
Jurisprudence.....	514	Law of Contract 2	516
Justice & Power:		Law of Crime.....	507
Contemporary Political Philosophy.....	588, 590	Law of Evidence	517
Justice, Liberty, Democracy:		Law of the Person.....	515
Debates & Directions.....	604	Law of Torts 1	507
Justice, Virtue and the Good	605, 608	Law of Torts 2.....	507

K

Keyboard Musicianship I.....	558	Learning and Behaviour III	613
Keyboard Musicianship (Classical Dip) Major.....	630	Legal Ethics.....	517
Keyboard Musicianship (Classical Dip) Minor.....	630	Legal Issues in Wine Marketing	633
Keyboard Musicianship (Majors)	629	Legal Research and Writing	508
Keyboard Musicianship (Minors).....	629	Level IV Geological Study Tour	490
Kinetics and Reactor Design.....	432	Life Contingencies III	533
		Limb Dissection	356
		Litigation Practice	517
		Livestock Production Science.....	358
		Logic I: Beginning Logic	587
		Logic II: Intermediate Logic	589

L

Laboratory Animal Science.....	360		
Labour and Industrial Relations Law	521		
Labour Economics III.....	411		
Land and Water Resources Law	522		
Land Management Systems for the Future.....	352		
Land Transactions	512		
Landmarks in English Literature:			
Chaucer to Austen	457		
Landscape Architecture Design Studio.....	406		
Landscape Processes and Environments II.....	486		

M

Macroeconomic Essentials for Wine & Food Business.....	634
Macroeconomic Theory & Policy II.....	410
Management Accounting II.....	348
Management and Professional Practice for Engineers	446
Management II.....	527

Manufacturing Engineering	435	Medical Professional & Personal Development I .	545
Marine Ecology III.....	464	Medical Professional & Personal Development II	545
Market Research and Project III	529	Medical Professional & Personal Development III	546
Marketing Communications III.....	528	Medicinal and Biological Chemistry III	378
Marketing II.....	528	Medicine Internship & Common Program VI	549
Mass Communicative Discourses	524, 525	Medicine SCAP VI	549
Materials and Manufacturing	427	Medieval Europe: The Crusades to	
Materials Chemistry III.....	377	the Black Death	496, 498
Materials I	421	Metaphysics: Identity, Time & Freedom	589, 591
Materials III(CH)	430	Metapsychology: Psychology, Science,	
Materials Selection and Failure Analysis.....	450	Society III	612
Mathematical Biology III.....	533	Micro-controller Programming	436
Mathematical Economics II.....	409	Microbiology and Invertebrate Biology	601
Mathematical Programming III	534	Microbiology for Viticulture and Oenology.....	580
Mathematical Statistics III	624	Microbiology II.....	550
Mathematics for Economists I	408	Microbiology II (Biomedical Sc).....	550
Mathematics for Information Technology I.....	529	Microbiology II (Biotechnology)	550
Mathematics IA.....	530	Microeconomic Principles	634
Mathematics IB.....	530	MIDI Studies (Cert IV)	630
Mathematics IMA	530	MIDI Studies (Diploma)	631
Mathematics IIM	532	Mind, Knowledge and God.....	587
Mathematics of Finance III	536	Mineral Exploration III	488
Mechanical Design Project Level IV	451	Mineral Nutrition of Plants	602
Mechanical Honours Project Level IV.....	456	Minerals and Energy Laws.....	515
Mechanical Signature Analysis.....	450	Minerals Processing	443
Mechatronics Design Project Level IV.....	452	Modelling Telecommunication Traffic.....	538
Mechatronics Honours Project Level IV	456	Modelling with Differential Equations II	531
Mechatronics IM	426	Modern France: From Revolution to Resistance .	495, 497
Mechatronics II	434	Modern Greek Curriculum & Methodology (UG) .	418
Mechatronics IIIM.....	450	Modern Imagination in Europe.....	467
Media Industry Placement	543	Modern Political Theory.....	605, 608
Media Law 2.....	516	Molecular and Structural Biology III	372
Media Law 4.....	515	Money, Banking and Financial Markets III.....	413
Media Policy and Media Law	541	Moot Court 2.....	511
Media Research Methods	542	Moot Court B	512
Media Theory.....	543	Moral Problems	587, 590
Medical and Scientific Attachment 1.....	546	Morality, Society and the Individual.....	587
Medical and Scientific Attachment 2.....	547	Morphology & Syntax	525, 526
Medical and Scientific Attachment 3.....	547	Multimedia Production A	542
Medical and Scientific Attachment 4.....	547	Multimedia Production B	543
Medical and Scientific Attachment 5.....	547	Multivariable Calculus II	532
Medical and Scientific Attachment 6.....	547	Music & Ideology II (Arts).....	561
Medical Home Unit.....	546	Music & Ideology III	569
Medical Law and Ethics.....	511	Music & Ideology III (Arts)	569
Medical Microbiology and Immunology III	552	Music and Politics: German Song and Society ..	467, 468

Music Education Ensembles II.....	564
Music Education Ensembles III.....	571
Music Education IIA.....	563
Music Education IIB.....	563
Music Education IIIA.....	571
Music Education IIIB.....	571
Music Education IV.....	575
Music Education Practicum III.....	571
Music Education Project IV.....	575
Music Foundations I: Jazz.....	556
Music in Context I: Jazz.....	556
Music in Context IIA: Jazz.....	562
Music in Context IIB: Jazz.....	562
Music in Context IIIA: Jazz.....	570
Music in Context IIIB: Jazz.....	570
Music Industry & Business Management.....	625
Music Language Studies.....	630
Music Technology I.....	558
Music Technology Forum (CERT IV).....	630
Music Technology Forum (Diploma).....	631
Music Technology III.....	573
Music, Media & Contemporary Society II.....	560
Music, Media & Contemporary Society II (Arts)...	560
Music, Media & Contemporary Society III.....	568
Music, Media & Contemporary Society III (Arts)..	568
Musics of the World I.....	555

N

Natural and Landscape Systems.....	405
Natural and Urban Systems.....	401
Neurobiology III.....	600
Neurobiology III (Med Surg).....	600
Neurological Diseases.....	585
New Venture Planning.....	438
Number Theory III.....	536
Numerical Analysis & Probability & Statistics.....	531
Numerical Methods.....	389
Numerical Methods in Engineering (Chemical) ..	531
Nursing Practice IA.....	576
Nursing Practice IB.....	577
Nursing Practice 2A.....	577
Nursing Practice 2B.....	578
Nursing Practice 3A.....	578
Nursing Practice 3B.....	578

O

Occupational Health & Safety.....	625
Oil and gas Resources and Reserves.....	454
Olive Production and Marketing.....	500
Operating Systems.....	390
Operations Research II.....	531
Optical Communication Engineering.....	446
Optimisation III.....	535
Options, Futures and Risk Management III.....	394
Oral Health Elective III OH.....	584
Orchestration II.....	564
Organisational Behaviour II.....	526
Organisational Dynamics III.....	527
Other Language Curriculum & Methodology (UG)	417

P

Paediatrics and Child Health.....	548
Painters of Modern Life.....	496, 499
Passion and Interests: The History of Greed.....	605, 608
Perception III.....	614
Percussion Ensemble I.....	554
Percussion Ensemble II.....	559
Percussion Ensemble III.....	567
Performance I CM.....	345
Performance II CM Pt 2.....	347
Performance I MS.....	344
Performance II MS.....	346
Performance Class.....	629
Person, Culture and Medicine I.....	610
Perspectives in Animal Science.....	357
Perspectives in Music Technology I.....	555
Perspectives in Music Technology II.....	561
Perspectives in Music Technology III.....	569
Perspectives on Modern Agriculture.....	351
Petroleum Engineering Design Project.....	454
Petroleum Engineering Honours Project.....	454
Petroleum Exploration and Management.....	438
Petroleum Exploration III.....	488
Petroleum Project Economics.....	455
Pharmacology A III.....	586
Pharmacology B III.....	586
Philosophy of Art: Knowledge, Emotion & Intention.....	588, 590

Philosophy of Science.....	588, 590	Practical Study III.....	574
Photonics II	594	Practical Study III: Jazz.....	570
Photonics III	597	Primary Health SCAP VI.....	549
Photonics IIIP.....	597	Primary Music Curriculum	571
Physical Optics III	597	Primary School Interaction	414
Physics Curriculum and Methodology (UG).....	417	Principles and Practice of Communications.....	353
Physics for the Life and Earth Sciences IA.....	592	Principles in Animal Behaviour Welfare Ethics....	357
Physics for the Life and Earth Sciences IB.....	593	Principles of Biotechnology II	373
Physics IA	592	Principles of Macroeconomics I	407
Physics IB.....	593	Principles of Microeconomics I	408
Physics IHE	592	Process Control and Instrumentation.....	431
Physics IIA.....	594	Process Design and Plant Engineering.....	431
Physics IIB.....	594	Process Design Project (Environmental).....	444
Physics Principles & Applications I.....	592	Process Design Project (Food, Wine & Biomolecular).....	445
Physics, Ideas and Society I.....	592	Process Dynamics and Control.....	442
Physics, Ideas and Society II.....	594	Process Engineering I.....	421
Pig Production - Science into Management.....	359	Product Engineering and Development	445
Planning and Heritage Law	522	Production Agronomy.....	352
Plant and Process Engineering	425	Production Engineering and Optimisation	437
Plant Breeding	603	Production Heat Transfer	425
Plant Design Project	443	Production Horticulture.....	499
Plant Food Processing A.....	469	Professional English (ESL)	457, 459
Plant Molecular Biology	602	Professional Ethics	588, 590
Plant Pathology.....	603	Professional Practice	543
Politics and Foreign Policy in Contemporary Japan	368, 369	Professional Practice & ICT for Teachers (UG)	419
Popular Culture: Passion, Style, Vibe.....	361, 364	Professional Practice I	421
Population, Environment and Health.....	481, 483	Programming Techniques	390
Portfolio Theory and Management III.....	394	Project Management.....	455
Post-Cold War International Relations.....	607, 610	Project Management for Electrical Engineering ..	433
Poverty and Social Development	363	Project Management for New Ventures	428
Power Electronics and Drive Systems	447	Property Law	507
Power Quality and Condition Monitoring.....	447	Property Theory.....	514
Practical Electrical & Electronic Design III	433	Psychological Health	546
Practical Electronic Design II.....	426	Psychological Health VI.....	549
Practical Extension I	345	Psychological Research Methodology II	611
Practical Extension II	346	Psychological Research Methodology III	612
Practical Music Study I CM	344	Psychology Curriculum & Methodology (UG).....	418
Practical Music Study I MS	344	Psychology IA.....	611
Practical Music Study II CM	346	Psychology IB.....	611
Practical Music Study II MS	347	Psychology IIA.....	612
Practical Study I: Performance	558	Psychology IIB	612
Practical Study II: Jazz.....	562	Public and Private Provision of Income Maintenance.....	513
Practical Study II: Performance	566	Public Economics III	412

Public Finance III.....	413	Research Studies (CASM) II MS	347
Public Health IA	614	Reservoir Characterisation and Modelling	437
Public Health IB	614	Reservoir Engineering.....	438
Public Health Inquiry II	615	Reservoir Geoscience Project III	489
Public Health Internship III	616	Reservoir Simulation.....	437
Public Health Law IIIHS	616	Reservoir Thermodynamics & Fluid Properties ...	427
Public Health Sciences II.....	615	Resource & Environmental Economics II	409
Public Health Theory and Practice III.....	617	Resource & Environmental Economics III	410
Public Interest Litigation.....	520	Resource Scarcity and Allocation.....	482, 484
Public International Law.....	522	Restitution.....	509

Q

Quantum Mechanics IIIA.....	595
Quantum Mechanics IIIB.....	597

R

Radio Production A	541
Radio Production B.....	543
Reading and Writing Poetry.....	458, 460
Real Analysis II	532
Real Time Systems IV	433
Regulation of Competition	521
Reliability and Quality Control	624
Religions of China.....	368, 369
Remedies	516
Remedies Under the Trade Practices Act	510
Remote Sensing	618
ReOrientation: Humanities & Social Sciences at Uni.....	366
Representing Truth and Reconciliation	459, 461
Research Methods in Environmental Biology III..	464
Research Methods in Marine Biology	466
Research Project A.....	514
Research Project B	509
Research Project B (Food Technology & Management).....	470
Research Project Plant and Pest Science.....	602
Research Project: Oenology.....	580
Research Project: Soil and Land Systems	618
Research Proposal.....	547
Research Studies (CASM) I CM	345
Research Studies (CASM) I MS	344
Research Studies (CASM) II CM	348

Revenue Law	510
RF Engineering III	432
RF Engineering IV	447
Rhythm in the 20th Century III.....	572
Robotics M.....	450
Roman Law	511
Rural Business Management	350
Rural Business Planning A	349
Rural Finance and Marketing	350
Rural Public Health IIIHS	616

S

Sampling Theory and Practice III.....	623
Scientific Basis of Medicine I	544
Scientific Basis of Medicine II	545
Scientific Basis of Medicine III	545
Scientific Computing I.....	529
Second Annual B.D.S. Examination	396
Second Annual Oral Health Examination.....	583
Second Year MBBS Examination	545
Secondary School Interaction	414
Securities and Investment Law.....	515
Sedimentary & Structural Geology II.....	486
Sedimentology and Stratigraphy.....	427
Selected Issues in International Law	509
Selected Issues in Law of Crime.....	513
Self Writing	458, 460
Senior English Curriculum & Methodology (UG)	417
Senior Mathematics Curric & Methodology (UG)	417
Sensory Evaluation of Foods.....	470
Sensory Studies	580
Sentencing and Criminal Justice	509
Separation Processes.....	431

Signal Processing IV.....	447	Special Topic in Design Studies IIB.....	402
Signals and Systems.....	425	Special Topic in Design Studies IIC.....	402
Small Ensemble 1.....	628	Special Topic in Design Studies IIE.....	403
Small Ensemble (Jazz Diploma).....	628	Special Topic in Design Studies IIF.....	403
Social Psychology III.....	613	Special Topic in Design Studies IIIA.....	404
Social Research.....	475, 476	Special Topic in Design Studies IIIB.....	405
Social Science Techniques.....	483	Special Topic in Design Studies IIIC.....	405
Social Sciences in Australia.....	473	Special Topic in Design Studies IIIE.....	405
Software Architecture.....	391	Special Topic in Design Studies IIIF.....	405
Software Engineering and Project.....	390	Special Topics in Civil and Environmental Engineering IV.....	441
Software Engineering Group Project 1.....	391	Special Topics in Civil & Struct Engineering IV....	440
Software Engineering Group Project 2.....	391	Stabilisation and Clarification.....	581
Software Engineering Honours Project.....	393	Stagecraft II.....	565
Software Process Improvement.....	392	Stagecraft III.....	573
Soil and Water Resources.....	618	State of the World.....	607, 609
Soil Ecology and Nutrient Cycling.....	619	Statics.....	419
Soil Management and Conservation.....	618	Statistical Mechanics III.....	596
Soil Water Management.....	619	Statistical Modelling II.....	623
Soils and Land Management Systems I.....	617	Statistical Modelling III.....	623
Sound & Media Technology I.....	555	Statistical Practice I.....	621
Sound Engineering (Live).....	631	Statistical Practice I (Life Sciences).....	622
Sound Engineering (Studio).....	631	Statistical Practice II.....	622
Sound Production A.....	629	Statutory Interpretation.....	521
Sound Production B.....	629	Stochastic Analysis & Application.....	538
South Australian Parliamentary Internship.....	610	Story/Technology: Writing Techniques.....	541
South Australian Parliamentary Internship - Law.....	610	Strategic Management III.....	527
South East Asian Buddhist Social Worlds.....	362, 364	Strategic Marketing Management.....	634
Space Science and Astrophysics I.....	592	Strategic Thinking for Decision Making III.....	411
Space Science and Astrophysics II.....	594	Strength of Materials IIA.....	423
Space Vehicle Design.....	434	Strength of Materials IIE.....	424
Spanish Curriculum & Methodology (UG).....	417	Stress Analysis (C).....	423
Spanish IA.....	621	Stress Analysis and Design.....	426
Spanish IB.....	621	Stresses in Plates and Shells.....	453
Spanish ISA.....	621	Structural Cell Biology.....	356
Spanish ISB.....	621	Structural Design (Steel).....	429
Spatial Information and Land Evaluation.....	617	Structural Design and Solid Mechanics.....	436
Special Management Studies.....	443	Structural Design IIA.....	424
Special Project (Research Paper) B.....	350	Structural Design IIB.....	424
Special Studies in Chemical Engineering.....	442	Structural Design III (Concrete).....	429
Special Topic in Design Studies IA.....	400	Structural Dynamics due to Wind and Earthquakes.....	439
Special Topic in Design Studies IB.....	400	Structural Geology and Seismic Methods.....	437
Special Topic in Design Studies IC.....	401	Structural Mechanics IIIA.....	428
Special Topic in Design Studies ID.....	402	Structural Response to Blast Loading.....	442
Special Topic in Design Studies IIA.....	403		

Structure and Function of the Body IID.....	396	Theory of Music.....	626
Student-Teacher Interaction in the Classroom (UG).....	419	Theory of Music (C3).....	626
Student-Teacher Interaction in the Classroom Pt 1 (UG).....	418	Theory of Music I CM.....	345
Studies in Community and Culture	344	Theory of Music I MS.....	344
Studies in Community and Culture II.....	347	Theory of Music II CM.....	346
Studies in Composition I.....	557	Theory of Music II MS.....	346
Studies in Composition II.....	564	Thermo-Fluids I	427
Studies in Composition III.....	572	Thermo-Fluids II.....	436
Studies In Music I.....	557	Thinking Economically	480
Studies of Society and Environment (UG)	417	Third Annual B.D.S. Examination	397
Style Studies I CM.....	344	Third Annual Oral Health Examination.....	584
Style Studies I MS.....	345	Third Year MBBS Examination	545
Style Studies II CM.....	346	Time Series III.....	623
Style Studies II MS.....	346	Topics in Chemistry IIIA	376
Succession.....	513	Topics in Electrical and Electronic Engineering... ..	448
Surgery Internship VI	549	Topics in Forensic Sciences	585
Surgery SCAP VI	549	Topology and Analysis III.....	536
Surgical Home Unit.....	546	Traffic Engineering and Design	441
Sustainability and the Environment	434	Transform Methods and Signal Processing.....	538
System Modelling and Simulation	392, 537	Transnational Crime	510
Systems Engineering	448	Transport Phenomena	431
Systems Programming in C and C++	389	Transport Processes in the Environment.....	431

T

Table and Drying Grape Production.....	632
Tax and the Revenue Concept.....	509
Teaching Practice I (UG).....	418
Teaching Practice II (UG).....	418
Teaching Practice UG Part 2	414
Technical French (Oenology).....	473
Technique & Repertoire Class.....	629
Technology in Design	403
Technology Law	519
Tectonics III.....	487
Telecommunications IV.....	447
Telecommunications Systems Modelling III	535
The Art of Crime: Fictions of Transgression	459, 461
The Ethics of War & Peace	606, 609
The Glory of Athens & the Shadow of Sparta.....	383, 386
The String Quartets of Bartok III	572
The Twentieth Century: A World in Turmoil.....	494
Theories of International Politics	606, 609

U

Urban Futures: Environmental & Social Issues....	481, 483
--	----------

V

Variational Methods and Optimal Control III.....	534
Vector Analysis and Complex Analysis.....	530
Video Production A	542
Video Production B	543
Vietnamese Curriculum and Methodology (UG)..	418
Village Voices: Greenwich in the 1960s II (Arts) ..	561
Village Voices: Greenwich in the 1960s III (Arts)	568
Village Voices: Greenwich Village in the 1960s III	B
Vineyard and Winery Operations I	579
Vineyard and Winery Operations II.....	580
Viticultural Engineering and Irrigation	353
Viticultural Methods and Procedures	632
Viticultural Production.....	632
Viticultural Science.....	631
Voice Practicum II.....	565
Voice Practicum III.....	573

W

War & Revolution in Germany & Central Europe: 1914-1990.....	496, 498
Waste Management Analysis and Design.....	441
Wastewater Engineering and Design	441
Water Distribution Systems and Design	440
Water Engineering & Design IIIA.....	429
Water Engineering & Design IIIB.....	430
Water Engineering II S1	424
Water Engineering II S2	424
Water Resources Optimisation and Modelling	440
Water Resources Sustainability and Design	442
Waves III.....	535
Well Completion	438
Well Testing and Pressure Transient Analysis.....	437
Western Music in Theory & Practice II A: 1750-1850	563
Western Music in Theory & Practice II B: 1850-1950	563
Western Music in Theory & Practice III: Music since 1950.....	570
Wildlife Management	358
Wine & Food Tourism & Festivals.....	636
Wine and Food Marketing Principles.....	633
Wine and Society	634
Wine Packaging and Quality Management	581
Wine Retail and Distribution Management	636
Winemaking at Vintage	582
Winery Business Management III	636
Winery Engineering III	431
Women's Writing: The Nineteenth Century.....	458, 460

Z

Zoology EB II	462
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