UNDERGRADUATE CALENDAR

THE UNIVERSITY OF ADELAIDE
AUSTRALIA

SUB CRUCE LUMEN

2009 THE UNIVERSITY OF ADELAIDE

GROUP OF EIGHT MEMBER

Life Impact 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.

Student Study Commitment

To successfully complete courses, students will need to allocate an appropriate time commitment to their study. In addition to the formal contact - the time required for each course (eg, lectures, tutorials, practicals) - students will need to allocate non-contact time. Non-contact time will be required for a range of activities which may include, but are not limited to, assessment tasks, reading, researching, note-taking, revision, writing, consultation with staff, and informal discussion with other students. While the relative proportion of contact and non-contact time may vary from course to course, as a guide, a full-time student would expect to spend, on average, a total of 48 hours per week on their studies during teaching periods. The workload for undergraduate programs is 24 units per year (full-time).

The Arms of the University

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

Per pale Or and Argent an Open Book proper edged Gold on a Chief Azure five Mullets, one of eight, two of seven, one of six and one of five points of the second, representing the Constellation of the Southern Cross; and the Motto associated with the Arms is

Sub Cruce Lumen

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

Contacting the University

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Academic Program Rules

Syllabuses

Courses are listed in alphabetical order under the following disciplines:

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

Centre for Aboriginal Studies in Music

Contents

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

or

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

5.1.6 A candidate who satisfactorily completes all of the requirements of Level 1 of the 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

Undergraduate Awards

- Degree of Bachelor of Design Studies
- Honours degree of Bachelor of Design Studies

Notes on Delegated Authority

1. Council has delegated the power to approve minor changes to the Academic Program Rules to the Executive Deans of Faculties.
2. Council has delegated the power to specify syllabuses to the Head of each department or centre concerned, such syllabuses to be subject to approval by the Faculty or by the Executive Dean on behalf of the Faculty.

Bachelor of Design Studies

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 Student Adviser 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 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. Law and B.Des.St. (with an Architectural Studies major) is recommended:

Level I

DESST 1027 Human Environments: Design and Representation 6

DESST 1029 Construction and Design: Theories and Practice 6

LAW 1501 Foundations of Law 3

LAW 1502 Law of Torts 1 3

LAW 1504 Principles of Public Law 3

LAW 1505 Law of Torts 2 3

Level II

DESST 1028 Natural and Urban Systems 3

DESST 1030 History of Settlements 3

DESST 2503 Landscape Architecture Histories and Theories 3

LAW 1503 Contracts 6

LAW 1506 Property Law 6

LAW 2501 Australian Constitutional Law 3

Level III

DESST 2500 Technology in Design 6

DESST 2501 Design Studio 6

DESST 2502 Architecture Histories and Theories 3

LAW 2503 Criminal Law and Procedure 6

LAW 2504 Administrative Law 3

Level IV

DESST 3027 Design for Sustainable Community .. 6

LAW 2502 Equity 3

DESST 3029 Architecture Design Studio 6

LAW 2505 Corporate Law 6

Law Elective.....3

Level V

LAW 3501 Dispute Resolution and Ethics. 6

LAW 3502 Evidence and Proof in Theory and Practice…… 6

Law Electives to the value of 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 an overload of 3 units in each semester of the first and second years of the program, 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 conceded 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

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 2500 Technology in Design 6

DESST 2501 Design Studio 6

DESST 2502 Architecture Histories & Theories 3

DESST 2503 Landscape Architecture Histories and Theories 3

Level II Electives to the value of 6 units 6

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 2500 Technology in Design 6

DESST 2501 Design Studio 6

DESST 2502 Architecture Histories & Theories 3

DESST 2503 Landscape Architecture Histories and Theories 3

Level II Electives to the value of 6 units 6

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 2500 Technology in Design 6

DESST 2501 Design Studio 6

DESST 2502 Architecture Histories & Theories 3

DESST 2503 Landscape Architecture Histories and Theories 3

Level II Electives to the value of 6 units 6

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 2500 Technology in Design 6

DESST 2501 Design Studio 6

DESST 2502 Architecture Histories & Theories 3

DESST 2503 Landscape Architecture Histories and Theories 3

Level II Electives to the value of 6 units 6

Level III

DESST 3027 Design for Sustainable Community ... 6

Level III Electives to the value of 18 units* 18

* 6 units of these electives must be taken from the School of Architecture, Landscape Architecture and Urban Design.

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... 3

DESST 2038 Digital Media II 6

DESST 2504 Art History and Theories IIA 3

DESST 2505 Art History and Theories IIB 3

DESST 2506 Digital Media IIA..... 3

DESST 2507 Special Topic in Design Studies IIA.... 3

DESST 2508 Special Topic in Design Studies IIB..... 3

DESST 2510 Special Topic in Design Studies IID.... 3

DESST 2511 Special Topic in Design Studies IIE.... 6

DESST 2512 Islamic Architecture & Gardens II..... 3

DESST 2513 Colonial and Contemporary Issues in South Asian Architecture II..... 3

DESST 2514 Conservation in the Built Environment II..... 3

DESST 2515 Special Topic in Design Studies IIF 6

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 3028 Natural and Landscape Systems 6

DESST 3031 Digital Media Studio.....6

Economics courses

Students are permitted to enrol in approved courses listed in the Academic Program Rules of the degree of Bachelor of Economics provided they have the prerequisites.

Engineering courses

C&ENVENG 1008 Engineering Planning and Design I.....3

C&ENVENG 1010 Engineering Mechanics - Statics.3

CHEM ENG 1008 Engineering Computing 3

MECH ENG 1006 Design Graphics and Communications.....3

MECH ENG 1007 Engineering Mechanics - Dynamics 3

Humanities and Social Sciences courses

Level I courses listed in Academic Program Rule 5.12.1, Level II courses listed in Academic Program Rule 5.12.2, and Level III courses listed in Academic Program Rule 5.12.3 of the degree of Bachelor of Arts.

Law courses*

Level I

LAW 1501 Foundations of Law 3

LAW 1502 Law of Torts 1 3

LAW 1504 Principles of Public Law.....3

LAW 1505 Law of Torts 2 3

Level II

LAW 2501 Australian Constitutional Law.....3

Level III

LAW 2502 Equity 3

LAW 2503 Criminal Law and Procedure 6

LAW 2504 Administrative Law 3

LAW 2505 Corporate Law 6

* 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 degrees of Bachelor of Agriculture and Bachelor of Science (Agricultural Science), and Level I, II and III courses listed in Academic Program Rules 5.5.1, 5.5.3 and 5.5.5 of the degree of Bachelor of Science 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 2009
(not forming part of the Academic Program Rules)

- A student who has completed only one of the following courses: 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 the following courses: 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 the following courses: DESST 2005 Technology in the Built Environment II and DESST 2034 Domestic Scale Construction, will be required to enrol in DESST 2500 Technology in Design and will be granted appropriate exemption from components of the course already completed.
- A student who has completed only one of the following courses: DESST 2016 Twentieth Century Architecture and Landscapes II and DESST 2023 Design and Environments II, will be required to enrol in DESST 2501 Design Studio, DESST 2502 Architecture Histories and Theories, and DESST 2503 Landscape Architecture Histories and Theories, and may be granted appropriate exemption from components of the course already completed.
- A student who failed DESST 2036 Technology in Design will be required to take DESST 2500 Technology in Design.
- A student who failed DESST 2037 Cultures, Histories and Designed Environment will be required to take DESST 2501 Design Studio, DESST 2502 Architecture Histories and Theories and DESST 2503 Landscape Architecture Histories and Theories.

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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

Business School

Contents

Undergraduate Awards

- Degree of Bachelor of Business Information Technoology*
- 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

* Please note there will be no further intake into these programs. Rules are listed in the 2008 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.

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 Business School, 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).

1.3 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

1.4 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 awarded, as specified in 4.7.2 below.

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

3.7 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

4.1 Bachelor of Commerce

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

a not more than 30 units at Level I, including ACCTING 1002 Accounting for Decision Makers I, ECON 1000 Principles of Macro-economics, ECON 1004 Principles of Micro-economics, and ECON 1008 Business and Economic Statistics 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 6 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:

i ACCTING 1005 Accounting Method I, COMMLAW 1004 Commercial Law I, ECOMMRCE 1000 Information Systems I, ACCTING 2500 Management Accounting II, ACCTING 2501 Financial Accounting II, COMMLAW 2500 Commercial Law II and CORPFIN 2500 Business Finance II *and*

ii one of COMMGMT 2500 Organisational Behaviour II, COMMGMT 2501 Management II, CORPFIN 2501 Financial Institutions Management II or MARKETNG 2500 Marketing II *and*

iii Level III Accounting courses from 4.8.1 below to the value of 12 units.

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 2508 Financial Economics and ECON 2504 Intermediate Econometrics II are considered Commerce courses.

4.3.2 In addition, the courses presented must include:

ECON 1009 International Financial Institutions & Markets

CORPFIN 2500 Business Finance II

CORPFIN 2501 Financial Institutions Management II

ECON 2504 Intermediate Econometrics II

ECON 2508 Financial Economics II

CORPFIN 3500 Corporate Finance Theory III

CORPFIN 3501 Portfolio Theory and Management III

CORPFIN 3502 Options, Futures & Risk Management III

CORPFIN 3503 Corporate Investment & Strategy III

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.

For the purpose of qualifying for this degree ECON 2500 International Trade & Investment Policy is considered a Commerce course.

4.4.2 In addition, the courses presented must include:

ECON 1009 International Financial Institutions & Markets

COMMGMT 2501 Management II

ECON 2500 International Trade & Investment Policy

INTBUS 2500 International Business II

MARKETNG 2500 Marketing II

COMMGMT 3500 International Management III

INTBUS 3000 Corporate Responsibility for Global Business III

INTBUS 3500 Legal Aspects of International Business III

MARKETNG 3501 International Marketing III

4.4.3 In addition, to qualify for the BCom (Int Bus) one of the following must be included:

either

i at least 3 units of Advanced Level Humanities and Social Sciences courses and 12 units of study undertaken at an approved institution abroad *or*

ii at least 6 units of approved Advanced Level Humanities and Social Sciences courses *or*

iii at least 12 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 2500 Organisational Behaviour II, COMMGMT 2501 Management 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. Two courses must also be included from:
COMMLAW 1004 Commercial Law I, ENGL 1104 Professional English (ESL) or English for Professional Purposes, PHIL 1101 Argument and Critical Thinking, Culture, Globalisation and Power, ACCTING 2500 Management Accounting II,

CORPFIN 2500 Business Finance II, INTBUS 2500 International Business II, PHIL 2045 Professional Ethics, MARKETNG 2500 Marketing II.

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 2500 Marketing II, MARKETNG 2501 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 Business School.

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 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 Academic Program Rule 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 Business School.

4.7.5 To qualify for an undergraduate degree in the Business School 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 Business School.

4.7.6 A candidate for an undergraduate degree in the Business School 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 Business School.

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 Business School and to count towards that degree courses which they have already presented for another qualification may be permitted to do so subject to the following conditions:

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

ii they shall present at least 18 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 Business School 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 18 units of Level III Commerce courses and an additional 6 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 Business School:

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@ 3

ECOMMRCE 1000 Information Systems I@ 3

Level II

ACCTING 2500 Management Accounting II@ 3

ACCTING 2501 Financial Accounting II@ 3

COMMGMT 2500 Organisational Behaviour II+ ... 3

COMMGMT 2501 Management II+ 3

COMMLAW 2500 Commercial Law II @ 3

CORPFIN 2500 Business Finance II@# 3

CORPFIN 2501 Financial Institutions Management II# 3

ECOMMRCE 2500 Internet Commerce II 3

INTBUS 2500 International Business II 3

MARKETNG 2500 Marketing II* 3

MARKETNG 2501 Consumer Behaviour II* 3

Level III

ACCTING 3500 Accounting Theory III@ 3

ACCTING 3501 Corporate Accounting III@ 3

ACCTING 3502 Auditing III@ 3

ACCTING 3503 Advanced Management Accounting III 3

COMMGMT 3500 International Management III + ... 3

COMMGMT 3501 Strategic Management III+ 3

COMMGMT 3502 Human Resource Management III+ 3

COMMGMT 3503 Organisational Dynamics III+ .. 3

COMMLAW 3500 Income Tax Law II@ 3

COMMLAW 3501 Business Taxation and GST III@ 3

CORPFIN 3500 Corporate Finance Theory III# 3

CORPFIN 3501 Portfolio Theory and Management III# 3

CORPFIN 3502 Options, Futures & Risk Management III# 3

CORPFIN 3503 Corporate Investment & Strategy III# 3

ECOMMRCE 3500 Electronic Commerce III 3

INTBUS 3500 Legal Aspects of International Business III 3

MARKETNG 3500 Marketing Communications III * 3

MARKETNG 3501 International Marketing III * 3

MARKETNG 3502 Market Research III * 3

MARKETNG 3503 Marketing Strategy and Project III * 3

@ Accounting course

Corporate Finance course

+ Management course

* Marketing course

4.8.2 Economics courses

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

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 24 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:

AGRIB 2016 Introduction to Business Management

WINEMKTG 1013WT Food and Wine Marketing Principles

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 & Promotion III

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

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

4.8.9 A candidate may not present COMMLAW 2500 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 Business School, proceed to the Honours degree in the following course: COMMERCE 4000A/B Honours Commerce OR COMMERCE 4002A/B for part-time students.

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

4.8.10.5 a A candidate preparing for the Honours year taught by the Business School must complete the requirements for a Bachelor degree of the Business School (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) See the Academic Program Rules of the LL.B. degree and the Introductory Notes to the LL.B. Syllabuses.

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

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

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 enrol in a program of study to allow them to qualify for either the degree of Bachelor of Finance *or* the degree of Bachelor of Finance (International).

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.

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 4.4 below.

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

3.7 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 my 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

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 4.8 including:

a not more than 30 units at Level 1, including:

ACCTING 1002 Accounting for Decision Makers I

ECON 1000 Principles of Macroeconomics

ECON 1004 Principles of Microeconomics

ECON 1008 Business and Economic Statistics

or

STATS 1000 Statistical Practice I

ECON 1009 International Financial Institutions and Markets

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

b at least 12 units of Level 2 courses, including:

CORPFIN 2500 Business Finance II

either:

CORPFIN 2501 Financial Institutions Management II

or

ACCTING 2501 Financial Computing II

and either

ECON 2504 Intermediate Econometrics II

or

STATS 2103 Introduction to Probability and Statistics

ECON 2508 Financial Economics II

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

CORPFIN 3501 Portfolio Theory and Management III

and either

APP MTH 3012 Financial Modelling III

or

CORPFIN 3502 Options, Futures & Risk Management III

d *and either*

i a further 6 units of Level III Finance courses from 4.8.1(a) below

or

ii a further 12 units of Level III courses from 4.8.1 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:

either

ECON 2500 International Trade & Investment Policy II

or

CORPFIN 2501 Financial Institutions Management II

ECON 2506 Intermediate Microeconomics II

ECON 2507 Intermediate Macroeconomics II

CORPFIN 3501 Portfolio Theory and Management

CORPFIN 3502 Options, Futures & Risk Management III

ECON 3510 International Finance III

ECON 3511 Money, Banking & Financial Markets III

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

4.4 A candidate may present for a Bachelor of Finance degree 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 4.8.1(a) and 4.8.1(b) below.

4.5 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 or 4.2 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.

4.6 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, or 4.2 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.

4.7 a Graduates of the University of Adelaide (except those specified in 4.7(b)) or of other institutions, who wish to proceed to the degree of Bachelor of Finance and to count towards that degree courses which they have already presented for another qualification may be permitted to do so subject to the following conditions:

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

ii they shall present at least 18 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 or 4.2.

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 either 18 units of Level III Finance courses and an additional 6 units

of Level II or III courses from 4.8.1 below, or 12 units of Level III Finance courses and an additional 12 units of Level III courses from 4.8.1 below

iii they shall present the courses specified in 4.1 or 4.2 above

iv they hold only one of the degrees listed in 4.7 (b) above.

4.8 Academic program

4.8.1 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 3

ECON 1004 Principles of Microeconomics 3

ECON 1008 Business and Economic Statistics 3

ECON 1009 International Financial Institutions and Markets 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

STATS 1000 Statistical Practice I 3

Level II

ACCTING 2501 Financial Computing II 3

CORPFIN 2007 Business Finance II 3

ECON 2500 International Trade and Investment Policy 3

ECON 2504 Intermediate Econometrics II 3

ECON 2506 Intermediate Microeconomics II 3

ECON 2507 Intermediate Macroeconomics II 3

ECON 2508 Financial Economics II 3

STATS 2103 Introduction to Probability and Statistics 3

Level III

APP MTH 3003 Life Contingencies III 3

APP MTH 3012 Financial Modelling II 3

COMMLAW 3501 Business Taxation & GST III 3

CORPFIN 3500 Corporate Finance Theory III 3

CORPFIN 3501 Portfolio Theory and Management III 3

CORPFIN 3502 Options, Futures and Risk Management III 3

CORPFIN 3503 Corporate Investment and Strategy III 3

ECON 3506 International Trade III 3

ECON 3507 Econometric Theory III 3

ECON 3510 International Finance III 3

ECON 3514 Advanced Macroeconomics III 3

ECON 3511 Money, Banking and Financial Markets III 3

MATHS 3014 Mathematics of Finance III 3

STATS 3005 Time Series III 3

B - Other Economics & 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).

E - Law courses

For students who have obtained a place in the Bachelor of Laws, courses, to a maximum of 24 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).

4.8.2 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.

4.8.3 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 Business, Economics, or Mathematical and Computer Sciences.

4.8.4 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 12 units unless he or she has already passed or is concurrently enrolled in the compulsory Level II courses CORPFIN 2500 Business Finance II, ECON 2504 Economic and Financial Data Analysis and ECON 2508 Financial Economics (or equivalent). These non-Finance courses to the value of not more than 12 units shall not include courses in which the candidate has previously failed or from which they candidate has withdrawn.

4.8.5 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 9 units unless he or she has already passed or is concurrently enrolled in the compulsory Level II courses CORPFIN 2500 Business Finance II, ECON 2504 Economic and Financial Data Analysis and ECON 2508 Financial Economics (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 9 units shall not include courses in which the candidate has previously failed or from which the candidate has withdrawn.

4.9 The Honours degree

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

4.9.2 A candidate may, subject to the approval of the Heads of the Business School, School of Economics, and Heads of the Departments of Mathematics, Applied Mathematics or Statistics, proceed to the Honours degree in the course COMMERCE 4000A/B Honours Commerce, or COMMERCE 4002A/B for part-time students.

4.9.3 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.

4.9.4 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 3507 Econometric Theory III (ECON 3507 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.

4.9.5 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.

4.9.6 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.

4.9.7 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.

4.10 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 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 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.

Graduate Attributes

Bachelor of Finance

Bachelor of Finance (International)

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

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.

3 Assessment and examinations

3.1 A candidate for the Bachelor degree shall attend lectures and pass examinations in accordance with the provisions of these 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 the final assessment of any course for the Bachelor degree, as follows: Pass with High Distinction, Pass with Distinction, Pass with Credit, Pass and Conceded Pass.

3.5 A candidate may present for the degree a limited number of courses for which a conceded pass has been awarded, as specified in 4.3 below.

3.6 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 Head of the School of Economics, 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 School may prescribe.

3.8 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

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 below including:

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

ECON 1000 Principles of Macroeconomics I

ECON 1004 Principles of Microeconomics I

ECON 1008 Business and Economic Statistics I

or

STATS 1000 Statistical Practice

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

b at least 12 units of Economics courses including from those listed in 4.7.1:

ECON 2504 Intermediate Econometrics II

or

STATS 2002 Introduction to Mathematical Statistics II

and

STATS 2003 Statistical Practice II

ECON 2506 Intermediate Microeconomics II

ECON 2507 Intermediate Macroeconomics II

c at least 12 units of Level III Economics courses from those listed in 4.7.1(a) *and*

d *either*

i a further 6 units of Level III Economics courses from 4.7.1(a) below below and 9 units of Level II or Level III courses

or

ii a further 12 units of Level III courses from 4.7 below.

e Included in the 72 units there must be:

i at least one of the following Economic History courses:

ECON 2505 Australian Economic History II

ECON 3509 International Economic History III

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

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

4.3 A candidate may present for the degree 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) below.

4.4 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 2 or 3 courses taught at the University of Adelaide. These must include 12 units of Level 3 Economics courses. However, this requirement may be waived in special circumstances approved by the School.

4.5 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 3 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.

4.6 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 18 units for courses at Level 3, 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 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 18 units of Level 3 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

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

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

4.7 Academic program

4.7.1 The following courses 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 I.....3

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

ECON 1005 Mathematics for Economists I.....3

ECON 1008 Business and Economic Statistics I ... 3

ECON 1009 International Financial Institutions and Markets I.....3

ECON 1010 Introduction to Mathematical Economics I.....3

Level II

ECON 2500 International Trade and Investment Policy II 3

ECON 2501 Resource and Environmental Economics II 3

ECON 2502 East Asian Economies II.....3

ECON 2503 Mathematical Economics II.....3

ECON 2504 Intermediate Econometrics II.....3

ECON 2505 Australian Economic History II 3

ECON 2506 Intermediate Microeconomics II.....3

ECON 2507 Intermediate Macroeconomics II.....3

ECON 2508 Financial Economics II.....3

ECON 2509 Topics in Microeconomics II 3

ECON 2510 Business and Economics Statistical Theory II 3

Level III

ECON 3500 Resource & Environmental Economics III 3

ECON 3501 Development Economics III 3

ECON 3502 Topics in Applied Econometrics III 3

ECON 3503 Strategic Thinking III 3

ECON 3504 Labour Economics III 3

ECON 3506 International Trade III 3

ECON 3507 Econometric Theory III 3

ECON 3508 Public Economics III 3

ECON 3509 International Economic History III 3

ECON 3510 International Finance III 3

ECON 3511 Money, Banking and Financial Markets III 3

ECON 3512 Public Finance III 3

ECON 3514 Advanced Macroeconomics III 3

ECON 3515 Time Series Econometrics III 3

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.

D - Law courses

For students who have obtained a place in the Bachelor of Laws, courses to a maximum of 24 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 for the degree if passed after 3731 Contract or LAW 1003 Law of Contract.

4.7.3 A candidate may not present COMMLAW 2500 Commercial Law II for the degree if passed after LAW 2004 Corporate Law.

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 the Faculty of the Professions 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 2504 Intermediate Econometrics II, ECON 2506 Intermediate Microeconomics and ECON 2507 Intermediate Macroeconomics (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 9 units unless he or she has already passed or is concurrently enrolled in the compulsory Level II courses ECON 2504 Intermediate Econometrics II, ECON 2506 Intermediate Microeconomics and ECON 2507 Intermediate Macroeconomics (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 9 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 School. 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 2503 Mathematical Economics II, ECON 2509 Topics in Microeconomics II, ECON 3507 Econometric Theory III, ECON 3514 Advanced Macroeconomics 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.

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

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

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

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

1 First Class

2A Second Class div A

2B Second Class div B

3 Third Class

NAH Not awarded.

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

4.9 Graduation

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

5 Special circumstances

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

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 2506 Intermediate Microeconomics II in their second semester concurrently with ECON 1000 Principles of Macroeconomics I and ECON 2507 Intermediate Macroeconomics 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.

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 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. 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 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 (five years for Engineering combined degrees) 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 3020 Corporate Accounting as a fourth Level 3 Economics course, if the student has three (3) Level 3 Economics courses as part of their program.

Bachelor of Economics (International Agricultural Business)

1 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.

2 Assessment and examinations

2.1 (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 2.1(a) above shall be deemed to have failed the examination.

2.2 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.

2.3 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.

2.4 A candidate who fails a course 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.

2.5 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.

2.6 Academic Progress

The Faculty my 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.

3 Qualification requirements

3.1 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 72 units drawn from 3.6 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 & Economic Statistics 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 2009WT Issues in Australian Agribusiness

ECON 2504 2504 Intermediate Econometrics II

ECON 2506 Intermediate Microeconomics II

and

an additional 3 units of Level II Economics courses from those listed in 4.6.1(a)

c the following Level III course:

AGRIBUS 3010WT 'International Agribusiness Environment III

and either

i an additional 9 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 15 units of Level III Economics from those listed in 3.6.1(a) with the remaining courses at Level II or higher included in 3.6.

3.2 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 3.1 above and must pass at least 24 units of Level II or III courses taught at the University of Adelaide. These must include 9 units of Level III Economics courses and International Agribusiness Environment III. However, this requirement may be waived in special circumstances approved by the School.

3.3 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 3.1 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.

3.4 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.

3.5 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 3.6.1(a), 3.6.1(b), 3.6.1(d) and 3.6.1(e).

3.6 Program of study

3.6.1 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 and Economic Statistics I ... 3

ECON 1009 International Financial Institutions and Markets I.....3

ECON 1010 Introduction to Mathematical Economics I.....3

Level II

ECON 2500 International Trade and Investment Policy II.....3

ECON 2501 Resource and Environmental Economics II 3

ECON 2502 East Asia Economics II 3

ECON 2503 Mathematical Economics II 3

ECON 2504 Intermediate Econometrics II.....3

ECON 2505 Australian Economic History II.....3

ECON 2506 Intermediate Microeconomics II.....3

ECON 2507 Intermediate Macroeconomics II.....3

ECON 2508 Financial Economics II.....3

ECON 2509 Topics in Microeconomics II 3

ECON 2510 Business and Economic Statistical Theory II 3

Level III

ECON 3500 Resource & Environmental Economics III 3

ECON 3501 Development Economics III 3

ECON 3502 Applied Econometrics III 3

ECON 3503 Strategic Thinking III.....3

ECON 3504 Labour Economics III*.....3

ECON 3506 International Trade III.....3

ECON 3507 Econometric Theory III 3

ECON 3508 Public Economics III 3

ECON 3509 International Economic History III.....3

ECON 3510 International Finance III 3

ECON 3511 Money, Banking and Financial Markets III.....3

ECON 3512 Public Finance III.....3

ECON 3514 Advanced Macroeconomics III.....3

B - Sciences courses

Level I

WINEMKTG 1013WT Wine and Food Marketing Principles.....3

Level II

AGRIBUS 2009WT Issues in Australian Agribusiness II 3

WINEMKTG 2500WT Applied Management Science II 3

WINEMKTG 2501WT/2501EX Applied Marketing Research II 3

WINEMKTG 2503WT/2503EX International Marketing of Wine and Agricultural Products II....3

WINEMKTG 2505WT/2505EX Strategic Marketing Management II.....3

Level III

AGRIBUS 3010WT International Agribusiness Environment III.....3

WINEMKTG 3014WT/3014EX Food Marketing III... 3

WINEMKTG 3034WT/3034EX Advertising and Promotion III 3

WINEMKTG 3040WT Wine Retail & Distribution Management III.....3

WINEMKTG 3047EX Internet Marketing & E-Commerce III.....3

WINEMKTG 3065WT Database Marketing for Food and Wine Business III.....3

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.

3.6.2 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.

3.6.3 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.

3.7 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.

4 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 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.

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.

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 s 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

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.

Bachelor of Teaching

1 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.

2 Admissions

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.

2.1 Status, exemption and credit transfer

2.1.1 No student may be granted more than 12 units of status to the required Education courses listed in 4.1 below.

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

3 Assessment and examinations

3.1 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.

3.2 Academic Progress

3.2.1 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.

3.2.2 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.

3.2.3 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.

4 Qualification requirements

Academic program

A Bachelor of Teaching is a double degree qualification requiring completion of courses to the value of not less than 96 units. To qualify for the Bachelor of Teaching a candidate must successfully complete courses as described in 4.1 below, and one of 4.2, 43, 4.4 or 4.5 below.

4.1 Education

4.1.1 Level I

EDUC 1001 Schools and Policies.....3

EDUC 1002 Primary School Interaction 3

4.1.2 Level II

EDUC 2001 Issues in Contemporary Education ...3

EDUC 2002 Professional Practice and Research ..3

4.1.3 Level III

EDUC 3002 Secondary School Interaction.....3

4.1.4 Level IV

Students must successfully complete courses to the value of 24 units comprising 6 units of Teaching Practice courses, 12 units of Education Studies courses and 6 units of Curriculum and Methodology courses, as follows:

Teaching Practice

EDUC 4205 Teaching Practice Part I (UG) 3

EDUC 4206 Teaching Practice Part II (UG) 3

Education Studies

EDUC 4201 Education Culture & Indigenous Perspectives (UG) 3

EDUC 4202 Student Learning and Interactions I (UG).....3

EDUC 4203 Curriculum, Assessment and Learning 3

EDUC 4204 Families, Schools & Special Needs (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 4322 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 4332 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 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

EDUC 4339 A/B Languages Education for TESOL (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

4.2 Bachelor of Teaching/Bachelor of Economics

In addition to the courses listed in 4.1 above a candidate must complete courses towards the Bachelor of Economics degree as listed below:

4.2.1 Level I

18 units of Level 1 courses, including:

ECON 1000 Principles of Macroeconomics I 3

ECON 1004 Principles of Microeconomics I 3

ECON 1008 Business & Economics Statistics I ... 3

or

STATS 1000 Statistical Practice 3

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

4.2.2 Level II

18 units of Level 2 courses, including at least 12 units Economics courses which must include:

ECON 2506 Intermediate Microeconomics II 3

ECON 2507 Intermediate Macroeconomics II 3

ECON 2504 Intermediate Econometrics II 3

or

STATS 2002 Introduction to Mathematical Statistics II 3

and

STATS 2003 Statistical Practice II 3

4.2.3 Level III

18 units of Level III courses including at least 12 units of Level III Economics courses from those listed in the program rules for the Bachelor of Economics degree.

A further 3 units of Level III Economics courses chosen from those listed in the program rules for the Bachelor of Economics degree *or*

EDUC 3001 Reflective Practice 3

4.2.4 Included in the Economics courses there must be at least one of the following Economic History courses:

ECON 2505 Australian Economic History II.....3

ECON 3030 International Economic History III.....3

4.3 Bachelor of Teaching/Bachelor of Arts

In addition to the courses listed in 4.1 above a candidate must complete courses towards the Bachelor of Arts degree as listed below:

4.3.1 Level I

18 units of Level I courses, including at least 12 units of Level I courses chosen from those listed in the rules for the Bachelor of Arts degree.

4.3.2 Advanced Level/ Level II & III

36 units of Advanced Level or Level II and Level III courses chosen from those listed in the rules for the Bachelor of Arts degree.

A further 3 units of Advanced Level courses chosen from those listed in the rules for the Bachelor of Arts degree *or*

EDUC 3001 Reflective Practice.....3

4.3.3 The courses completed must include at least one major and one minor sequence of study as defined in the program rules for the Bachelor of Arts degree.

4.4 Bachelor of Teaching/Bachelor of Mathematical & Computer Sciences

In addition to the courses listed in 4.1 above a candidate must complete courses towards the Bachelor of Mathematical and Computer Sciences degree as listed below.

The courses completed must include at least 36 units of courses in Mathematical and Computer Sciences disciplines.

4.4.1 Level I

18 units of Level 1 courses, including:

either

MATHS 1011 Mathematics IA *and*

MATHS 1012 Mathematics IB

or

MATHS 1013 Mathematics IMA *and*

MATHS 1011 Mathematics IA *and*

MATHS 1012 Mathematics IB

obtaining a Pass standard or higher for each course presented.

The remaining courses must be chosen from the Level I requirements as specified in the program rules for the Bachelor of Mathematical and Computer Sciences.

4.4.2 Level II

18 units of Level II courses chosen from the Level II requirements as specified in the program rules for the Bachelor of Mathematical and Computer Sciences.

4.4.3 Level III

21 units of Level III courses which must include at least 12 units of Level III Mathematical and Computer Sciences courses *and*

MATHS 3015 Communication Skills III.....3

Courses must be chosen from the Level III requirements as specified in the program rules for the Bachelor of Mathematical and Computer Sciences.

Note: Students may substitute one Level 2 course with a Level III course chosen from those specified in the Program Rules for the Bachelor of Mathematical and Computer Sciences. Specific course requirements for majors in Applied Mathematics, Computer Science, Mathematical Sciences, Pure Maths and Statistics are specified in the Academic Program Rules for the Bachelor of Mathematical and Computer Sciences.

4.5 Bachelor of Teaching/Bachelor of Science

In addition to the courses listed in 5.1 above a candidate must complete courses towards the Bachelor of Science degree as listed below:

4.5.1 Level I

18 units of Level 1 courses, as listed in Rule 5.5.1 and 5.5.2 for the Bachelor of Science.

4.5.2 Level II

18 units of Level 2 courses as listed in Rule 5.5.3 and 5.5.4 for the Bachelor of Science.

4.5.3 Level III

21 units of Level 3 courses including a major in a science discipline, as set out in the program rules for the Bachelor of Science

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

4.7 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 Teaching

- Knowledge and understanding of the students' chosen discipline areas and policies relating to schools and teaching
- Skills in analysing, evaluating and synthesising information
- The capacity for critical thinking, analysis and problem solving and the ability to undertake research and apply it to practice
- 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
- An awareness of the need to commit to responsible participation within their discipline and their profession, as well as their local communities and the wider world
- An understanding of social justice including aspects related to moral standards and cultural diversity
- The capacity for reflecting on one's teaching and professional practice.

Academic Program Rules

Faculty of Engineering, Computer and Mathematical Sciences

Contents

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 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.

2 Assessment and examinations

2.1 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.

2.2 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.

2.3 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.

2.4 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.

2.5 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.

3 Qualification requirements

3.1 General: the degree of Bachelor of Computer Graphics

3.1.1 The program of study for the degree of Bachelor of Computer Graphics shall extend over three years of full time study or equivalent.

3.1.2 To qualify for the Bachelor degree a candidate shall, subject to 3.1.4 below, present passes in courses from 3.2 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.

3.1.3 The courses presented must include:

a MATHS 3015 Communication Skills III 3

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 1032 Imaging Our World.....3

DESST 2038 Digital Media II 6

DESST 3031 Digital Media Studio.....6

d At least 9 units of Level I Computer Science courses with at least 6 units at the level of Pass or higher

e At least 12 units of Level II Computer Science courses with at least 9 units at the level of Pass or higher

f At least 18 units of Level III Computer Science courses with at least 12 units at the level of Pass or higher.

g 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 Systems 3

COMP SCI 2004 Data Structures & Algorithms 3

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

COMP SCI 3014 Computer Graphics.....3

h The Computer Science courses must include:

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.

3.1.4 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.

3.1.5 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 3.1.2 and 3.1.3 above. The courses presented must include Level II and Level III courses from 3.2 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.

3.1.6 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.

3.1.7 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 3.2 with an aggregate unit value of 24 satisfying the requirements of 3.1.3.

3.1.8 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.

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

Note: Students are advised that some courses are either unpresentable or cannot be counted with other coursess towards the degree of Bachelor of Computer Graphics. Students are advised to check their chosen electives with the Faculty Program Adviser.

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.

3.2.1 Level I

Courses offered at Level I towards a degree program at the University of Adelaide and approved by the Faculty Program Adviser.

3.2.2 Level II

Courses offered at Level II towards a degree program at the University of Adelaide and approved by the Faculty Program Adviser.

3.2.3 Level III

Courses offered at Level III towards a degree program at the University of Adelaide and approved by the Faculty Program Adviser.

3.3 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 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 and an Honours degree of Bachelor of Computer Science. 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 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: Bachelor of Computer Science, Bachelor of Computer Science (Software Engineering)

4.1.1 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 & Level III courses.

4.1.2 The courses presented must include:

a At least 9 units of Level I Computer Science courses which must include at the level of Pass or higher:

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

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 course 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.

4.1.3 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 Computing 3

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 Subject to 4.1.4, students enrolled in an Engineering program offered by the Faculty may qualify for the B.Comp.Sc. by fulfilling the requirements of 4.1.7(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.

4.1.6 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.

4.1.7 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:

a presents a range of courses which fulfils the requirements of 4.1.1 and 4.1.2 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.

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

4.1.9 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 4.1.2(d) and 4.1.2 (e).

4.1.10 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 are either unpresentable or cannot be counted with other courses towards the degree of Bachelor of Computer Science. Students are advised to check their chosen electives with the Faculty Program Adviser.

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 and approved by the Faculty Program Adviser.

4.2.2 Level II

Courses offered at Level II towards a degree program at the University of Adelaideand approved by the Faculty Program Adviser.

4.2.3 Level III

Courses offered at Level III towards a degree program at the University of Adelaide and approved by the Faculty Program Adviser.

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 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.

4.3.1.4 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.

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, Computer and Mathematical Sciences 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 ENG 3003 Engineering Communication EAL. 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. This course is substituted in lieu of another course in the program and students must seek advice from the School on this substitution.

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 undertaken 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.

6 Qualification requirements

6.1 General

i A candidate shall regularly attend lectures and do written, laboratory, and other practical work (where such is required), and pass examinations in the courses prescribed for one of the following Engineering programs:

a Aerospace Engineering

b Architectural Engineering

c Automotive Engineering

d Avionics & Electronic Systems Engineering

e Chemical Engineering - with the option of specialising in one of:
Energy & Environment
Food, Wine & Biomolecular *or*
Process & Product Engineering

f Civil & Environmental Engineering

g Civil & Structural Engineering

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 a plan available in:
Chemical
Electrical *or*
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.

6.2 Level I Mathematics requirements

Students who have undertaken SACE Stage 2 Specialist Mathematics (or equivalent) will be required to enrol in Mathematics IA followed by Mathematics IB. Students who have not undertaken SACE Stage 2 Specialist Mathematics will be required to enrol in Mathematics IMA, followed by Mathematics IA with Mathematics IB taken in Summer Semester to complete the Mathematics requirements at Level I. The satisfactory completion of Mathematics IMA is in addition to the normal requirements of the Bachelor of Engineering.

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, Mechatronic, Sports 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 Mechatronics IM or Sports Engineering I, 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

It is possible for students in Computer Systems, Electrical & Electronic, Mechanical, and Telecommunications Engineering programs to elect to complete both the Bachelor of Engineering and Bachelor of Laws degrees, 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 relevant Law studies within the B.E. program under Sections 6.5 of these Academic Program Rules.

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

6.4.2.1 Direct Entry

i Students may enrol directly in a program of study leading, after five years of full-time study (or six years in the case of BE(Aerospace)/BSc) (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 & Environmental)/B.Sc.
B.E. (Civil & 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 Engineering and Science components described within the relevant sections of these Rules.

6.4.2.2 Direct Entry B.E.(Elec.)/B.Sc.(Physics)

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 and Electronic) and Bachelor of Science.

To qualify for the combined award, students are required to complete satisfactorily the Engineering and Science components described within the relevant section of these Rules.

6.4.2.3 Direct Entry B.E.(Chem)/B.Sc.(Biotech)

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 double awards, students are required to complete satisfactorily the Engineering and Science components described within the relevant section of these Rules.

6.4.2.4 Direct Entry B.E.(Petroleum)/B.Sc (Geology and Geophysics)

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.

To qualify for the combined award, students are required to complete satisfactorily the Engineering and Science components described within the relevant section of these Rules.

6.4.3 Bachelor of Engineering and Bachelor of Mathematical and Computer Sciences - B.E./B.Ma.& Comp.Sc.

6.4.3.1 Direct Entry

i Students may enrol directly in a program of study leading, after five years of full-time study (or the part time equivalent thereof), to the award of both the degree of Bachelor of Engineering and the degree of Bachelor of Mathematical and Computer Sciences. The following options are available:

B.E.(Aerospace)/B.Ma. & Comp.Sc.

B.E.(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 To qualify for these awards, students are required to complete satisfactorily the Engineering, and Mathematical and Computer Sciences components described within the relevant section of these Rules.

iii 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

Engineering students 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), contact the Faculty Program Adviser.

6.4.4 Bachelor of Engineering and Bachelor of Arts - B.E./B.A.

i There is a series of programs administered by the Faculty of Engineering, Computer and Mathematical Sciences and leading to the combined award of Bachelor of Engineering and Bachelor of Arts. The combined award is available in Chemical, Civil and Environmental, Civil and Structural, Computer Systems, Electrical and Electronic, 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 apply for 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, students are required to complete satisfactorily the Engineering and Arts components described within the relevant section of these Rules

vi Honours

In the Engineering component, Honours are awarded for meritorious performance in the program (taken over the Engineering courses only). In the Arts component, the award of Honours requires one further year of study devoted exclusively to the Honours program. Students wishing to gain a degree at Honours Level In Arts should consult the Faculty of Humanities and Social Sciences for further details.

6.4.5 Bachelor of Engineering and Bachelor of Economics - B.E./B.Ec.

i Students may enrol directly in a program of study leading, after five years of full-time study (or the part-time equivalent), to the award of both the degree of Bachelor of Engineering and the degree of Bachelor of Economics. The following options are available:

B.E.(Chemical)/B.Ec.

B.E.(Civil & Environmental)/B.Ec.

B.E.(Civil & 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 To qualify for the double award, students are required to complete satisfactorily the Engineering and Economics components described within the relevant section of these Rules.

6.4.6 Bachelor of Engineering and Bachelor of Finance - B.E./B.Fin.

i Students may enrol directly in a program of study leading, after five years of full-time study (or the part-time equivalent), to the award of both the degree of Bachelor of Engineering and the degree of Bachelor of Finance. The following options are available:

B.E.(Chemical)/B.Fin.

B.E.(Civil & Environmental)/B.Fin.

B.E.(Civil & 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 To qualify for the double awards, students are required to complete satisfactorily the Engineering and Finance components described within the relevant section of these Rules.

6.4.7. Combined Engineering Degrees

The following options are available:

B.E.(Civil & Structural)/B.E.(Civil & Environmental)

B.E.(Petroleum)/B.E.(Chemical)

B.E.(Petroleum)/B.E.(Civil & Environmental)

B.E.(Petroleum)/B.E.(Civil & Structural)

B.E.(Petroleum)/B.E.(Mechanical)

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 the combined award, students are required to complete satisfactorily the Engineering components described within the relevant section of these Rules.

6.5 Academic programs

6.5.1 Aerospace Engineering

6.5.1.1 B.E.(Aerospace)

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 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 & Communication M 3

MECH ENG 1007 Engineering Mechanics - Dynamics 3

MECH ENG 1102 Introduction to Aerospace Engineering 3

Level II

MATHS 2201 Engineering Mathematics I 3

MATHS 2202 Engineering Mathematics II 3

MECH ENG 2002 Stress Analysis and Design 3

MECH ENG 2019 Dynamics and Control I 3

MECH ENG 2020 Materials and Manufacturing ... 3

MECH ENG 2021 Thermo-Fluids I 3

MECH ENG 2100 Design Practice 3

MECH ENG 2101 Mechatronics IM+ 3

+ includes Workshop Practical

Level III

Note: Level III & IV are indicative only - for enrolment information continuing students should see: www.ecms.adelaide.edu.au/enrol/guides

MECH ENG 3026 Aerospace Materials & Structures 3

MECH ENG 3027 Engineering Systems Design & Communication 3

MECH ENG 3028 Dynamics and Control II 3

MECH ENG 3100 Aeronautical Engineering I 3

MECH ENG 3101 Applied Aerodynamics 3

MECH ENG 3102 Heat Transfer 3

MECH ENG 3104 Space Vehicle Design 3

MECH ENG 3105 Sustainability & the Environment 3

Level IV

MECH ENG 4100 Advanced Topics in Aerospace Engineering 3

MECH ENG 4106 Aerospace Propulsion 3

MECH ENG 4108 Aircraft Design 3

MECH ENG 4111 CFD for Engineering Applications 3

or

MECH ENG 4118 Finite Element Analysis of Structures 3

MECH ENG 4116 Eng Management & Quality Systems 3

MECH ENG 4128A/B Aerospace Design Project Level IV Part 1 & 2+ 6

or

MECH ENG 4129A/B Aerospace Honours Project Level IV Part 1 & 2+ 6

One of the following if available:

MECH ENG 4104 Advanced Topics in Fluid Mechanics 3

MECH ENG 4107 Airconditioning 3 3

MECH ENG 4114 Corrosion: Principles & Prevention 3

MECH ENG 4120 Fracture Mechanics 3

MECH ENG 4121 Materials Selection & Failure Analysis 3

MECH ENG 4122 Mechanical Signature Analysis 3 3

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

6.5.1.2 B.E.(Aerospace)/B.Ma.&Comp.Sc. (Computer Science focus)

To qualify for both the award of the degree of B.E.(Aerospace) and the degree of B.Ma.&Comp. Sc. with a Computer Science focus, candidates are required to complete satisfactorily:

Level I

C&ENVENG 1010 Engineering Mechanics - Statics 3

CHEM ENG 1102 Intro to Aerospace Engineering 3

COMP SCI 1008 Computer Science IA 3

COMP SCI 1009 Computer Science IB 3

MATHS 1011 Mathematics IA* 3

MATHS 1012 Mathematics IB 3

MATHS 1013 Mathematics IMA* 3

MECH ENG 1006 Design Graphics & Communication 3

MECH ENG 1007 Engineering Mechanics - Dynamics 3

* See Clause 6.2 regarding Level I Mathematics requirements.

Level II

CHEM ENG 1009 Materials I 3

ELEC ENG 1009 Electrical & Electronic Engineering IA 3

MATHS 2201 Engineering Mathematics I 3

MATHS 2202 Engineering Mathematics II 3

MECH ENG 2002 Stress Analysis & Design 3

MECH ENG 2019 Dynamics & Control I 3

MECH ENG 2021 Thermo-Fluids I 3

MECH ENG 2100 Design Practice 3

Level III

Note: Level III , IV & V are indicative only - for enrolment information continuing students should see: www.ecms.adelaide.edu.au/enrol/guides

COMP SCI 2000 Computer Systems 3

COMP SCI 2004 Data Structures & Algorithms 3

MECH ENG 3100 Aeronautical Engineering 3

MECH ENG 3026 Aerospace Materials & Structures 3

MECH ENG 3027 Engineering Systems Design & Communication 3

MECH ENG 2101 Mechatronics IM+ 3

MECH ENG 3104 Space Vehicle Design 3

MECH ENG 3028 Dynamics & Control II 3

+ includes Workshop Practical

Level IV

Level III Computer Science Courses** 18

MECH ENG 3101 Applied Engineering Aerodynamics 3

MECH ENG 3102 Heat Transfer & Thermodynamics 3

** Note: this is a focus on computer science, and a major in Computer Science requires the above presentation to Include COMP SCI 3006 Software Engineering and Project and a further 3 units of Level II Computer Science courses. The additional 3 units at Level II is surplus to the requirements of the B.Maths and Computer Science program but is required if the student wishes to obtain a Computer Science major.

Level V

MECH ENG 3105 Sustainability & the Environment 3

MECH ENG 4100 Advanced Topics in Aerospace Engineering 3

MECH ENG 4106 Aerospace Propulsion 3

MECH ENG 4108 Aircraft Design 3

MECH ENG 4116 Engineering Management & Quality Systems 3

MECH ENG 4128A/B Aerospace Design Project Part A & B# 6

or

MECH ENG 4129A/B Aerospace Honours Project Part A & B# 6

Elective 3

Students accepted into the Honours stream will take MECH ENG 4129A/B Aerospace Honours Project and other students will take MECH ENG 4128A/B Aerospace Design Project.

Elective courses (if available):

MECH ENG 4104 Advanced Topics in Fluid Mechanics 3

MECH ENG 4107 Airconditioning 3

MECH ENG 4111 CFD for Engineering Applications 3

MECH ENG 4118 Finite Element Analysis of Structures 3

MECH ENG 4120 Fracture Mechanics 3

MECH ENG 4121 Materials Selection & Failure Analysis 3

MECH ENG 4122 Mechanical Signature Analysis 3

6.5.1.3 B.E.(Aerospace)/ B.Ma.Comp.Sc. (Mathematics focus)

To qualify for both the award of the degree of B.E.(Aerospace) and the degree of B.Ma.Comp.Sc. with a Mathematics focus, candidates are required to complete satisfactorily:

Level I

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

MATHS 1013 Mathematics IMA* 3

MECH ENG 1006 Design Graphics & Communication M 3

MECH ENG 1007 Engineering Mechanics - Dynamics 3

MECH ENG 1102 Introduction to Aerospace Engineering 3

* See Clause 6.2 regarding Level I Mathematics requirements.

Level II

MATHS 2202 Engineering Mathematics II 3

MECH ENG 2002 Stress Analysis & Design 3

MECH ENG 2019 Dynamics & Control I 3

MECH ENG 2020 Materials & Manufacturing 3

MECH ENG 2021 Thermo-Fluids I 3

MECH ENG 2100 Design Practice 3

MECH ENG 2101 Mechatronics IM+ 3

MECH ENG 2201 Engineering Mathematics I 3

+ includes Workshop Practical

Level III

Note: Level III , IV & V are indicative only - for enrolment information continuing students should see: www.ecms.adelaide.edu.au/enrol/guides

MECH ENG 3026 Aerospace Materials & Structures 3

MECH ENG 3027 Engineering Systems Design & Communication 3

MECH ENG 3028 Dynamics & Control II 3

MECH ENG 3100 Aeronautical Engineering 3

MECH ENG 3101 Applied Aerodynamics 3

MECH ENG 3102 Heat Transfer & Thermodynamics 3

MECH ENG 3104 Space Vehicle Design 3

MECH ENG 3105 Sustainability & the Environment 3

Students should consider undertaking Level II Mathematics courses at this level if they are to undertake Level III Statistics or Pure Mathematics coursework. See note under Level IV and consult Mechanical School Course Advisers about undertaking Level III Mechanical Coursework at Level IV. Students should consult Mathemtical Sciences School Course Advisers about their Level III options and the second year knowledge required.

Level IV

Maths Courses 24

This double program requires 24 new units of Mathematics with at least 18 units at Level III and up to 6 units at Level II.

Level V

MECH ENG 4100 Advanced Topics in Aerospace Engineering 3

MECH ENG 4106 Aerospace Propulsion 3

MECH ENG 4108 Aircraft Design 3

MECH ENG 4111 CFD for Engineering Applications 3

or

MECH ENG 4118 Finite Element Analysis of Structures 3

MECH ENG 4116 Engineering Management & Quality Systems 3

MECH ENG 4128A/B Aerospace Design Project Part A & B# 6

or

MECH ENG 4129A/B Aerospace Honours Project Part A & B# 6

One Elective to be chosen from the following if available:

MECH ENG 4003 4120 Fracture Mechanics 3

MECH ENG 4023 4104 Advanced Topics in Fluid Mechanics 3

MECH ENG 4061 4114 Corrosion: Principles & Prevention 3

MECH ENG 4107 Airconditioning 3

MECH ENG 4121 Materials Selection & Failure Analysis 3

MECH ENG 4122 Mechanical Signature Analysis 3

Students accepted into the Honours stream will take 4129A/B Aerospace Honours Project and other students will take 4128A/B Aerospace Design Project.

6.5.1.4 B.E (Aerospace)/B.Sc.

To qualify for a Bachelor of Science award, students must complete a major pursuant to Bachelor of Science Program Rules.

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:

Level I

C&ENVENG 1010 Engineering Mechanics - Statics 3

CHEM ENG 1009 Materials I 3

MATHS 1011 Mathematics IA 3

MATHS 1012 Mathematics IB 3

MATHS 1013 Mathematics IMA* 3

MECH ENG 1006 Design Graphics & Communication 3

MECH ENG 1007 Engineering Mechanics ..... Dynamics 3

MECH ENG 1102 Introduction to Aerospace Engineering 3

Level I Science Course 3

* See Clause 6.2 regarding Level I Mathematics requirements.

Level II

MATHS 2201 Engineering Mathematics I 3

MATHS 2202 Engineering Mathematics II 3

MECH ENG 2002 Stress Analysis & Design 3

MECH ENG 2020 Materials & Manufacturing 3
MECH ENG 2021 Thermo-Fluids I.....3
MECH ENG 2100 Design Practice.....3
MECH ENG 2101 Mechatronics IM+ 3
Level I Science Course 3

+ includes Workshop Practical

Level III

Note: Level III , IV & V are indicative only - for enrolment information continuing students should see: www.ecms.adelaide.edu.au/enrol/guides

APP MTH 3017 Waves III 3
MECH ENG 2019 Dynamics & Control I.....3
MECH ENG 3026 Aerospace Materials & Structures 3
MECH ENG 3027 Engineering Systems Design & Communication 3
MECH ENG 3100 Aeronautical Engineering 3
MECH ENG 3102 Heat Transfer & Thermodynamics.....3
MECH ENG 3104 Space Vehicle Design.....3
MECH ENG 3105 Sustainability & the Environment.....3

Level IV

MECH ENG 3028 Dynamics & Control II.....3
MECH ENG 3101 Applied Aerodynamics 3
MECH ENG 4106 Aerospace Propulsion 3
MECH ENG 4108 Aircraft Design.....3
Level II Science Courses*.....12

* Check with the Faculty of Science on requirements for majors.

Level V

Level III Science Courses 24

Level VI

MECH ENG 4100 Advanced Topics in Aerospace Engineering.....3
MECH ENG 4111 CFD for Engineering Applications 3
MECH ENG 4116 Engineering Management & Quality Systems.....3
MECH ENG 4118 Finite Element Analysis of Structures.....3
MECH ENG 4128A/B Aerospace Design Project Part A & B# 6

or

MECH ENG 4029A/B Aerospace Honours Project Part A & B# 6
Elective from list below.....6

Students accepted into the Honours stream will take MECH ENG 4029A/B Aerospace Honours Project Parts A & B and other students will take MECH ENG 4128A/B Aerospace Design Project Parts A & B.

Electives from the following if available:

MECH ENG 4102 Advanced PID Control 3
MECH ENG 4107 Airconditioning 3
MECH ENG 4115 Engineering Acoustics.....3
MECH ENG 4120 Fracture Mechanics.....3
MECH ENG 4104 Advanced Topics in Fluid Mechanics 3
MECH ENG 4105 Advanced Vibrations.....3
MECH ENG 4114 Corrosion: Principles & Prevention.....3
MECH ENG 4121 Materials Selection & Failure Analysis.....3
MECH ENG 4122 Mechanical Signature Analysis 3
MECH ENG 4126 Topics in Welded Structures 3

6.5.2 Architectural Engineering

6.5.2.1 B.E.(Architectural)

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 IA 3
DESST 1027 Human Environments.....6
DESST 1029 Construction and Design: Theories and Practice 6
MATHS 1011 Mathematics IA 3
MATHS 1012 Mathematics IB 3
MATHS 1013 Mathematics IMA*.....3

* See Clause 6.2 regarding Level I Mathematics requirements.

Level II

C&ENVENG 2025 Strength of Materials IIA 3
C&ENVENG 2069 Geotechnical Engineering IIA ...3
C&ENVENG 2070 Engineering Modelling and Analysis IIA 3
C&ENVENG 2072 Structural Engineering Design IIA 3
DESST 1030 History of Settlements 1 3
DESST 2502 Architecture Histories & Theories 3
MATHS 2201 Engineering Mathematics I.....3
MECH ENG 2021 Thermo-Fluids 1.....3

Level III

Note: Level III & IV are indicative only - for enrolment information continuing students should see: www.ecms.adelaide.edu.au/enrol/guides

Civil & Environmental Engineering courses:

Engineering Management & Planning.....3
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

Design Studies courses:

Design for Sustainable Buildings S1.....3

Design for Sustainable Buildings S2.....3

MECH ENG 3102 Heat Transfer and Thermodynamics.....3

Level IV

Civil & Environmental Engineering courses:

Architectural Engineering Research Project Pt 1 & 2^.....6

Building Services.....3

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

Mechanical Engineering course:

Heating, Ventilation & Air-conditioning.....3

Specialisation courses to the value of 9 units.....9

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

Specialisations

Students may take 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 School, replace one or more specialisation courses with appropriate courses offered by other schools in the University.

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 4099 Structural Response to Blast Loading.....3

Group II: Geotechnical Engineering

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

Group III: Water Engineering

C&ENVENG 4098 Water Resources Sustainability and Design.....3

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

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

Group IV: Management Engineering

C&ENVENG 4085 Traffic Engineering & Design 3

Group V: Environmental Engineering

C&ENVENG 4092 Wastewater Engineering and Design.....3

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

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

6.5.3 Automotive Engineering

6.5.3.1 B.E.(Automotive)

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 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 & Communication.....3

MECH ENG 1007 Engineering Mechanics - Dynamics.....3

MECH ENG 1101 Intro to Automotive Engineering.....3

Level II

APP MATHS 2202 Engineering Mathematics II....3

MATHS 2201 Engineering Mathematics I.....3

MECH ENG 2002 Stress Analysis & Design.....3

MECH ENG 2019 Dynamics & Control I.....3

MECH ENG 2020 Materials & Manufacturing.....3

MECH ENG 2021 Thermo-Fluids I.....3

MECH ENG 2100 Design Practice.....3

MECH ENG 2101 Mechatronics IM+.....3

+ includes Workshop Practical

Level III

Note: Level III & IV are indicative only - for enrolment information continuing students should see: www.ecms.adelaide.edu.au/enrol/guides

ELEC ENG 3025 Power Electronics & Drive Systems M.....3

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

MECH ENG 3033 Automotive Materials & Structures.....3

MECH ENG 3101 Applied Aerodynamics.....3

MECH ENG 3102 Heat Transfer & Thermodynamics.....3

MECH ENG 3103 Manufacturing Engineering.....3

MECH ENG 3105 Sustainability & the Environment....3

MECH ENG 3028 Dynamics & Control 2....3

Level IV

MECH ENG 4103 Advanced Computer Aided Engineering....3

MECH ENG 4110 Automotive Vehicle Dynamics & Safety....3

MECH ENG 4111 CFD for Engineering Applications....3

MECH ENG 4118 Finite Element Analysis of Structures....3

MECH ENG 4116 Engineering Management & Quality Systems....3

MECH ENG 4117 Finance for Engineers....3

MECH ENG 4130A/B Automotive Design Project Level IV Part 1 & 2#

or

MECH ENG 4131A/B Automotive Honours Project Level IV Part 1 & 2#....3

Students accepted into the Honours stream will take MECH ENG 4131A/B Automotive Honours Project and other students will take MECH ENG 4130A/B Automotive Design Project.

6.5.3.2 B.E.(Automotive)/B.Ma.&Comp.Sc. (Computer Science focus)

To qualify for both the award of the degree of B.E.(Automotive) and the degree of B.Ma.Comp. Sc. with a Computer Science Focus, candidates are required to complete satisfactorily:

Level I

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

COMP SCI 1008 Computer Science IA....3

COMP SCI 1009 Computer Science IB....3

MATHS 1011 Mathematics IA....3

MATHS 1012 Mathematics IB....3

MATHS 1013 Mathematics IMA*....3

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

MECH ENG 1007 Engineering Mechanics - Dynamics....3

MECH ENG 1101 Intro to Automotive Engineering....3

* See Clause 6.2 regarding Level I Mathematics requirements.

Level II

CHEM ENG 1009 Materials I....3

ELEC ENG 1009 Electrical & Electronic Engineering IA....3

MATHS 2201 Engineering Mathematics I....3

MATHS 2202 Engineering Mathematics II....3

MECH ENG 2002 Stress Analysis & Design....3

MECH ENG 2019 Dynamics & Control I....3

MECH ENG 2021 Thermo-Fluids I....3

MECH ENG 2100 Design Practice....3

Level III

Note: Level III , IV & V are indicative only - for enrolment information continuing students should see: www.ecms.adelaide.edu.au/enrol/guides

COMP SCI 2000 Computer Systems....3

COMP SCI 2004 Data Structures & Algorithms....3

ELEC ENG 3025 Power Electronics & Drive Systems M....3

MECH ENG 2020 Materials & Manufacturing....3

MECH ENG 2101 Mechatronics IM (includes Workshop Practical)....3

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

MECH ENG 3028 Dynamics & Control II....3

MECH ENG 3033 Automotive Materials & Structures....3

Level IV

Level III Maths & Computer Science Courses*....18

MECH ENG 3101 Applied Aerodynamics....3

MECH ENG 3102 Heat Transfer & Thermodynamics....3

* Note: This is a focus in Computer Science, not a major. A major in Computer Science requires another Level II Computer Science course to be presented and the 18 units at Level IV should to contain 12 units of Level III Computer Science courses of which one must be Software Engineering & Project.

Level V

MECH ENG 3105 Sustainability & the Environment....3

MECH ENG 4103 Advanced Computer Aided Engineering....3

MECH ENG 4110 Automotive Vehicle Dynamics & Safety....3

MECH ENG 4116 Engineering Management & Quality Systems....3

MECH ENG 4117 Finance for Engineers....3

MECH ENG 4118 Finite Element Analysis of Structures....3

MECH ENG 4130A/B Automotive Design Project Level IV Part a & B#....6

or

MECH ENG 4131A/B Automotive Honours Project Part 1 & 2#....6

Students accepted into the Honours stream will take MECH ENG 4131A/B Automotive Honours Project Parts A & B and other students will take MECH ENG 4130A/B Automotive Design Project Parts A & B.

6.5.3.3 B.E.(Automotive)/B.Ma.&Comp.Sc. (Mathematics focus)

To qualify for both the award of the degree of B.E.(Automotive) and the degree of B.Ma.Comp. Sc. with a Mathematics Focus, candidates are required to complete satisfactorily:

Level I

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

MATHS 1013 Mathematics IMA* 3

MECH ENG 1006 Design Graphics & Communication M 3

MECH ENG 1007 Engineering Mechanics - Dynamics 3

MECH ENG 1101 Intro. to Automotive Engineering 3

* See Clause 6.2 regarding Level I Mathematics requirements.

Level II

MATHS 2201 Engineering Mathematics I 3

MATHS 2202 Engineering Mathematics II 3

MECH ENG 2002 Stress Analysis & Design 3

MECH ENG 2019 Dynamics & Control I 3

MECH ENG 2020 Materials & Manufacturing 3

MECH ENG 2021 Thermo-Fluids I 3

MECH ENG 2100 Design Practice 3

MECH ENG 2101 Mechatronics IM+ 3

+ includes Workshop Practical

Level III

Note: Level III , IV & V are indicative only - for enrolment information continuing students should see: www.ecms.adelaide.edu.au/enrol/guides

ELEC ENG 3025 Power Electronics & Drive Systems M 3

MECH ENG 3027 Engineering Systems Design & Communication 3

MECH ENG 3028 Dynamics & Control II 3

MECH ENG 3020 3102 Heat Transfer & Thermodynamics 3

MECH ENG 3029 3103 Manufacturing Engineering 3

MECH ENG 3033 Automotive Materials & Structures 3

MECH ENG 3105 Sustainability & the Environment 3

MECH ENG 3101 Engineering Applied Aerodynamics 3

See Note below Level IV concerning Maths presentation.

Students need to undertake Level II Pure Mathematics or Statistics courses if they wish to take some Level III work in these areas. Some Level III Mechanical work may have to be deferred to a later year and students should discuss this with School Course Advisers.

Level IV

Level III Maths Courses* 24

*24 new Maths units are required but 6 units may be presented at Level II.

Level V

ELEC ENG 4103 Advanced Computer Aided Engineering 3

MECH ENG 4130A/B Automotive Design Project Level IV Part 1 & 2# 6

or

MECH ENG 4131A/B Automotive Honours Project Level IV Part 1 & 2# 6

MECH ENG 4110 Automotive Vehicle Dynamics & Safety 3

MECH ENG 4111 CFD for Engineering Applications 3

MECH ENG 4118 Finite Element Analysis of Structures 3

MECH ENG 4116 Engineering Management & Quality Systems 3

MECH ENG 4117 Finance for Engineers 3

Students accepted into the Honours stream will take MECH ENG 4131A/B Automotive Honours Project and other students will take MECH ENG 4130A/B Automotive Design Project.

6.5.4 Avionics and Electronic Systems Engineering

6.5.4.1 B.E.(Avionics and Electronic Systems)

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 and Electronic Engineering IB 3

MATHS 1011 Mathematics IA 3

MATHS 1012 Mathematics IB 3

MATHS 1013 Mathematics IMA * 3

MECH ENG 1007 Engineering Mechanics - Dynamics 3

PHYSICS 1100 Physics IA 3

* See Clause 6.2 regarding Level I Mathematics requirements.

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

ELEC ENG 2011 Circuit Analysis ... 3

MATHS 2201 Engineering Mathematics I ... 3

MATHS 2202 Engineering Mathematics II ... 3

Level III

Note: Level III & IV are indicative only - for enrolment information continuing students should see: www.ecms.adelaide.edu.au/enrol/guides

COMP SCI 3006 Software Engineering & Project . 3

Electrical & Electronic Engineering courses:

Complex Systems ... 3

Digital Systems ... 3

Practical Electronic Design III ... 3

Signal Processing III ... 3

ELEC ENG 3016 Control III ... 3

ELEC ENG 3018 RF Engineering III ... 3

MECH ENG 3016 Aeronautical Engineering ... 3

Level IV

Electrical & Electronic Engineering courses:

Avionic Sensors and Systems ... 3

Financial Management for Engineers ... 3

Management & Professional Practice for Engineers ... 3

Systems Engineering ... 3

Electives ... 6

ELEC ENG 4036B Design Project Part 2# ... 6

or

ELEC ENG 4039B Honours Project Part 2# ... 6

Students accepted into the Honours stream will take Honours Project Part 1 & 2 and other students will take Design Project Part 1 & 2.

6.5.5 Chemical Engineering

6.5.5.1 B.E.(Chemical)

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

Level I

CHEM ENG 1007 Process Engineering I ... 3

CHEM ENG 1008 Engineering Computing ... 3

CHEM ENG 1010 Professional Practice I ... 3

CHEM 1100 Chemistry IA+ ... 3

and

CHEM 1200 Chemistry IB+ ... 3

or

CHEM 1101 Foundations of Chemistry IA+ ... 3

and

CHEM 1201 Foundations of Chemistry IB+ ... 3

MATHS 1011 Mathematics IA ... 3

MATHS 1012 Mathematics IB ... 3

ENV BIOL 1002 Ecological Issues I ... 3

+ Students with a Subject Achievement score of at least 13 in SACE Stage 2 Chemistry or equivalent must enrol in CHEM 1100/1200. All other students must enrol in CHEM 1101/1201.

Level II

CHEM 2530 Environmental & Analytical Chemistry II ... 3

or

CHEM 2510 Chemistry IIA++ ... 3

CHEM ENG 2010 Introduction to Process Simulation ... 3

CHEM ENG 2011 Chemical Engineering Thermodynamics ... 3

CHEM ENG 2013 Process Modelling and Computations ... 3

CHEM ENG 2014 Process Engineering IIA ... 3

CHEM ENG 2016 Professional Practice II ... 3

CHEM ENG 2018 Process Engineering IIB ... 3

MATHS 2201 Engineering Mathematics I ... 3

++ CHEM 2510 Chemistry IIA requires either passes in both CHEM 1100 & CHEM 1200 or credits in both CHEM 1101 & CHEM 1201 as prerequisites.

Level III

Note: Level III & IV are indicative only - for enrolment information continuing students should see: www.ecms.adelaide.edu.au/enrol/guides

Chemical Engineering courses:

Chemical Engineering Applications A ... 3

Chemical Engineering Applications B ... 3

Chemical Engineering Applications C ... 3

Chemical Engineering Unit Operations Lab ... 3

Materials III ... 3

Process Control & Utilities ... 3

Professional Practice III ... 3

Simulation & Concept Design ... 3

Level IV

Chemical Engineering courses:

Chemical Engineering Research Project H# ... 3

or

Chemical Engineering Research Project N# ... 3

Dynamics & Control (Chemical) ... 3

Process & Product Design ... 3

Professional Practice IV ... 3

Process Design Project ... 6

Electivs ... 6

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

Chemical Engineering Electives

Bio-Fuels 3

Biomolecular Engineering 3

Frontier Technologies 3

CHEM ENG 4001 Special Studies in Chemical Engineering 3

CHEM ENG 4002A/B Chemical Engineering Research Elective II 3

CHEM ENG 4004 Minerals Processing 3

CHEM ENG 4021 Combustion Processes 3

CHEM ENG 4024 Environmental Engineering 3

6.5.5.2 B.E.(Chemical) (Energy & Environment)

Level I

CHEM 1100 Chemistry IA+ 3

and

CHEM 1200 Chemistry IB+ 3

or

CHEM 1101 Foundations of Chemistry IA+ 3

and

CHEM 1201 Foundations of 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

+ Students with a Subject Achievement score of at least 13 in SACE Stage 2 Chemistry or equivalent must enrol in CHEM 1100/1200. All other students must enrol in CHEM 1101/1201.

Level II

CHEM 2510 Chemistry IIA++ 3

or

CHEM ENG 2530 Environmental & Analytical Chemistry II 3

CHEM ENG 2010 Introduction to Process Simulation 3

CHEM ENG 2014 Process Engineering IIA 3

CHEM ENG 2018 Process Engineering IIB 3

CHEM ENG 2013 Process Modelling and Computations 3

CHEM ENG 2016 Professional Practice II 3

CHEM ENG 2011 Chemical Engineering Thermodynamics 3

MATHS 2201 Engineering Mathematics I 3

++ CHEM 2510 Chemistry IIA requires either passes in both CHEM 1100 & CHEM 1200 or credits in both CHEM 1101 & CHEM 1201 as prerequisites.

Level III

Note: Level III & IV are indicative only - for enrolment information continuing students should see: www.ecms.adelaide.edu.au/enrol/guides

Chemical Engineering courses:

Chemical Engineering Applications A 3

Chemical Engineering Applications B 3

Chemical Engineering Applications C 3

Materials III 3

Chemical Engineering Unit Operations Lab 3

Process Control & Utilities 3

Professional Practice III 3

Simulation & Concept Design 3

Level IV

Chemical Engineering courses:

Chemical Engineering Research Project H# 3

or

Chemical Engineering Research Project N# 3

Dynamics & Control (Chemical) 3

Process & Product Design 3

Process Design Project 6

Professional Practice IV 3

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

C&ENVENG 2035 Water Engineering II S2 3

C&ENVENG 3013 Water Engineering & Design IIIA 3

C&ENVENG 3014 Water Engineering & Design IIIB 3

Chemical Engineering course:

Bio-Fuels 3

Frontier Technologies 3

CHEM ENG 4001 Special Studies in Chemical Engineering 3

CHEM ENG 4002A/B Chemical Engineering Research Elective II 3

CHEM ENG 4004 Minerals Processing 3

CHEM ENG 4021 Combustion Processes 3

CHEM ENG 4024 Environmental Engineering 3

6.5.5.3 B.E.(Chemical) (Process & Product Engineering)

Level I

CHEM 1100 Chemistry IA+ 3

and

CHEM 1200 Chemistry IB+ 3

or

CHEM 1101 Foundations of Chemistry IA+ 3

and

CHEM 1201 Foundations of 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

+ Students with a Subject Achievement score of at least 13 in SACE Stage 2 Chemistry or equivalent must enrol in CHEM 1100 /1200. All other students must enrol in CHEM 1101/1201.

Level II

CHEM 2510 Chemistry IIA++ 3

or

CHEM ENG 2530 Environmental & Analytical Chemistry II 3

CHEM ENG 2010 Introduction to Process Simulation 3

CHEM ENG 2011 Chemical Engineering Thermodynamics 3

CHEM ENG 2013 Process Modelling and Computations 3

CHEM ENG 2014 Process Engineering IIA 3

CHEM ENG 2016 Professional Practice II 3

CHEM ENG 2018 Process Engineering IIB 3

MATHS 2201 Engineering Mathematics I 3

++ CHEM 2510 Chemistry IIA requires either passes in both CHEM 1100 & CHEM 1200 or credits in both CHEM 1101 & CHEM 1201 as prerequisites.

Level III

Note: Level III & IV are indicative only - for enrolment information continuing students should see: www.ecms.adelaide.edu.au/enrol/guides

Chemical Engineering courses:

Chemical Engineering Applications A 3

Chemical Engineering Applications B 3

Chemical Engineering Applications C 3

Chemical Engineering Unit Operations Lab 3

Materials III 3

Process Control & Utilities 3

Professional Practice III 3

Simulation & Concept Design 3

Level IV

Chemical Engineering courses:

Chemical Engineering Research Project H# 3

or

Chemical Engineering Research Project N# 3

Dynamics & Control (Chemical) 3

Process & Product Design 3

Process Design Project 6

Professional Practice IV 3

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.

Chemical Engineering Electives

Bio-Fuels 3

Biomolecular Engineering 3

Frontier Technologies 3

CHEM ENG 4001 Special Studies in Chemical Engineering 3

CHEM ENG 4002A/B Chemical Engineering Research Elective II 3

CHEM ENG 4004 Minerals Processing 3

CHEM ENG 4021 Combustion Processes 3

CHEM ENG 4024 Environmental Engineering 3

6.5.5.4 B.E.(Chemical) (Food, Wine & Biomolecular)

Level I

CHEM 1100 Chemistry IA+ 3

and

CHEM 1200 Chemistry IB+ 3

or

CHEM 1101 Foundations of Chemistry IA+ 3

and

CHEM 1201 Foundations of 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

+ Students with a Subject Achievement score of at least 13 in SACE Stage 2 Chemistry or equivalent must enrol in CHEM 1100 /1200. All other students must enrol in CHEM 1101/ 1201.

Level II

CHEM 2510 Chemistry IIA++ 3

or

CHEM ENG 2530 Environmental & Analytical Chemistry II 3

CHEM ENG 2010 Introduction to Process Simulation 3

CHEM ENG 2011 Chemical Engineering Thermodynamics 3

CHEM ENG 2013 Process Modelling and Computations 3

CHEM ENG 2014 Process Engineering IIA 3

CHEM ENG 2016 Professional Practice II 3

CHEM ENG 2018 Process Engineering IIB 3

MATHS 2201 Engineering Mathematics I 3

++ CHEM 2510 Chemistry IIA requires either passes in both CHEM 1100 & CHEM 1200 or credits in both CHEM 1101 & CHEM 1201 as prerequisites.

Level III

Note: Level III & IV are indicative only - for enrolment information continuing students should see: www.ecms.adelaide.edu.au/enrol/guides

Chemical Engineering courses:

Chemical Engineering Applications A 3

Chemical Engineering Applications B 3

Chemical Engineering Applications C 3

Chemical Engineering Unit Operations Lab 3

Materials III 3

Process Control & Utilities 3

Professional Practice III 3

Simulation & Concept Design 3

Level IV

Chemical Engineering core course 6

Chemical Engineering Research Project H# 3

or

Chemical Engineering Research Project N# 3

Dynamics & Control (Chemical) 3

Process & Product Design 3

Professional Practice IV 3

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.

Chemical Engineering Electives

Bio-Fuels 3

Biomolecular Engineering 3

Frontier Technologies 3

CHEM ENG 4001 Special Studies in Chemical Engineering 3

CHEM ENG 4002A/B Chemical Engineering Research Elective II 3

CHEM ENG 4004 Minerals Processing 3

CHEM ENG 4024 Environmental Engineering 3

FOOD SC 2002WT Nutrition II 3

FOOD SC 3014RG Food Quality & Regulation 3

FOOD SC 3011RG Food Chemistry 3

6.5.5.5 B.E.(Chemical)/B.A.

To satisfy the Arts component of this program, students commencing in 2009 must undertake 30 units of Arts courses, which includes an approved major sequence (24 units). The remaining 6 units can be undertaken at any level. Students should consult the Bachelor of Arts academic program rules for the list of approved major sequences and the specific requirements of each.

To satisfy the BE (Chemical) component of this program candidates are required to satisfactorily complete the courses listed below:

Level I

CHEM 1100 Chemistry IA+ 3

and

CHEM 1200 Chemistry IB+ 3

or

CHEM 1101 Foundations of Chemistry IA+ 3

and

CHEM 1201 Foundations of 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* .....

MATHS 1013 Mathematics IMA* 3

+ Students with a Subject Achievement score of at least 13 in SACE Stage 2 Chemistry or equivalent must enrol in CHEM 1100 /1200. All other students must enrol in CHEM 1101/1201.

* See Clause 6.2 regarding Level I Mathematics requirements.

Level II

CHEM ENG 2010 Introduction to Process Simulation 3

CHEM ENG 2011 Chemical Engineering Thermodynamics 3

CHEM ENG 2013 Process Modelling and Computations 3

CHEM ENG 2014 Process Engineering IIA 3

CHEM ENG 2018 Process Engineering IIB 3

MATHS 2201 Engineering Mathematics I 3

Level I Arts Course 3

CHEM ENG 2016 Professional Practice II 3

Level III

Note: Level III , IV & V are indicative only - for enrolment information continuing students should see: www.ecms.adelaide.edu.au/enrol/guides

Chemical Engineering courses:

Chemical Engineering Applications A 3

Chemical Engineering Applications B 3

Chemical Engineering Applications C 3

Chemical Engineering Unit Operations Lab.....3
Materials III.....3
Process Control & Utilities.....3
Professional Practice III.....3
Simulation & Concept Design.....3

Level IV

Chemical Engineering courses:

Chemical Engineering Research Project H#.....3

or

Chemical Engineering Research Project N#.....3
Dynamics & Control (Chemical).....3
Process & Product Design.....3
Process Design Project.....6
Professional Practice IV.....3
Advanced Level Arts Course.....3
Level I Arts Course.....3

#Students accepted into the Honours Stream will take Chemical Engineering Research Project H and other students will take Chemical Engineering Research Project N.

Level V

Advanced Level Arts Courses.....24

6.5.5.6 B.E.(Chemical)/B.Ec.

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:

Level I

CHEM 1100 Chemistry IA+.....3

and

CHEM 1200 Chemistry IB+.....3

or

CHEM 1101 Foundations of Chemistry IA+.....3

and

CHEM 1201 Foundations of 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
MATHS 1013 Mathematics IMA*.....3

+ Students with a Subject Achievement score of at least 13 in SACE Stage 2 Chemistry or equivalent must enrol in CHEM 1100 /1200. All other students must enrol in CHEM 1101/1201.

* See Clause 6.2 regarding Level I Mathematics requirements

Level II

CHEM ENG 2010 Introduction to Process Simulation.....3
CHEM ENG 2011 Chemical Engineering Thermodynamics.....3
CHEM ENG 2014 Process Engineering IIA.....3
CHEM ENG 2016 Professional Practice II.....3
CHEM ENG 2018 Process Engineering IIB.....3
ECON 1000 Principles of Macroeconomics I.....3
ECON 1004 Principles of Microeconomics I.....3
MATHS 2201 Engineering Mathematics I.....3

Level III

Note: Level III, IV & V are indicative only - for enrolment information continuing students should see: www.ecms.adelaide.edu.au/enrol/guides

Chemical Engineering courses:

Chemical Engineering Applications A.....3
Chemical Engineering Applications B.....3
Chemical Engineering Unit Operations Lab.....3
Process Control & Utilities.....3
Professional Practice III.....3
Simulation & Concept Design.....3

Economics courses:

ECON 2506 Intermediate Microeconomics II.....3
ECON 2507 Intermediate Macroeconomics II.....3

Level IV

Chemical Engineering courses:

Chemical Engineering Research Project H#.....3

or

Chemical Engineering Research Project N#.....3
Dynamics & Control (Chemical).....3
Process & Product Design.....3
Professional Practice IV.....3
ECON 2006 Economic & Financial Data Analysis II.....3
Level II Economics Courses.....3
Level III Economics Course.....6

#Students accepted into the Honours Stream will take Chemical Engineering Research Project H and other students will take Chemical Engineering Research Project N.

Level V

CHEM ENG 4014 Plant Design Project.....6
Elective.....6
Level III Economics Courses.....12

Chemical Engineering Electives

Bio-Fuels.....3
Biomolecular Engineering.....3
Frontier Technologies.....3
CHEM ENG 4002A/B Chemical Engineering Research Elective II.....3
CHEM ENG 4004 Minerals Processing.....3
CHEM ENG 4021 Combustion Processes.....3
CHEM ENG 4024 Environmental Engineering.....3

6.5.5.7 B.E.(Chemical)/B.Fin.

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:

Level I

CHEM 1100 Chemistry IA+ 3

and

CHEM 1200 Chemistry IB+ 3

or

CHEM 1101 Foundations of Chemistry IA+ 3

and

CHEM 1201 Foundations of 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

MATHS 1013 Mathematics IMA* 3

+ Students with a Subject Achievement score of at least 13 in SACE Stage 2 Chemistry or equivalent must enrol in CHEM 1100 /1200. All other students must enrol in CHEM 1101/1201.

* See Clause 6.2 regarding Level I Mathematics requirements.

Level II

CHEM ENG 2010 Introduction to Process Simulation 3

CHEM ENG 2011 Chemical Engineering Thermodynamics 3

CHEM ENG 2014 Process Engineering IIA 3

CHEM ENG 2016 Professional Practice II 3

CHEM ENG 2018 Process Engineering IIB 3

ECON 1004 Principles of Microeconomics I 3

ECON 2504 Intermediate Econometrics II 3

MATHS 2201 Engineering Mathematics I 3

Level III

Note: Level III, IV & V are indicative only - for enrolment information continuing students should see: www.ecms.adelaide.edu.au/enrol/guides

Chemical Engineering courses:

Chemical Engineering Applications A 3

Chemical Engineering Applications B 3

Chemical Engineering Unit Operations Lab 3

Process Control & Utilities 3

Professional Practice III 3

Simulation & Concept Design 3

ECON 1000 Principles of Macroeconomics I 3

ECON 1009 International Financial Institutions & Markets I 3

Level IV

ACCTING 1002 Accounting for Decision Makers I 3

Chemical Engineering courses:

Chemical Engineering Research Project H# 3

or

Chemical Engineering Research Project N# 3

Dynamics & Control (Chemical) 3

Process & Product Design 3

Professional Practice IV 3

CORPFIN 2500 Business Finance II 3

ECON 2508Financial Economics II 3

Level III Economics Course 3

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

Level V

CHEM ENG 4014 Plant Design Project 6

Elective 6

Level III Finance Courses 12

Chemical Engineering elective courses

Bio-Fuels 3

Biomolecular Engineering 3

Frontier Technologies 3

CHEM ENG 4002A/B Chemical Engineering Research Elective II 3

CHEM ENG 4004 Minerals Processing 3

CHEM ENG 4021 Combustion Processes 3

CHEM ENG 4024 Environmental Engineering 3

6.5.5.8 B.E.(Chemical)/B.Ma.&Comp.Sc. (Computer Science focus)

To qualify for both the award of the degree of B.E.(Chem.) and the degree of B.Ma.Comp.Sc. with a Computer Science Major, candidates are required to complete satisfactorily:

Level I

CHEM 1100 Chemistry IA+ 3

and

CHEM 1200 Chemistry IB+ 3

or

CHEM 1101 Foundations of Chemistry IA+ 3

and

CHEM 1201 Foundations of Chemistry IB+ 3

CHEM ENG 1007 Process Engineering I 3

CHEM ENG 1010 Professional Practice I 3

COMP SCI 1008 Computer Science IA 3

COMP SCI 1009 Computer Science IB 3

MATHS 1011 Mathematics IA* .....

MATHS 1012 Mathematics IB* 3

MATHS 1013 Mathematics IMA* 3

+ Students with a Subject Achievement score of at least 13 in SACE Stage 2 Chemistry or equivalent must enrol in CHEM 1100 /1200. All other students must enrol in CHEM 1101/1201.

* See Clause 6.2 regarding Level I Mathematics requirements.

Level II

CHEM ENG 2010 Introduction to Process Simulation 3

CHEM ENG 2011 Chemical Engineering Thermodynamics 3

CHEM ENG 2014 Process Engineering IIA 3

CHEM ENG 2016 Professional Practice II 3

CHEM ENG 2018 Process Engineering IIB 3

COMP SCI 2000 Computer Systems 3

COMP SCI 2004 Data Structures & Algorithms 3

MATHS 2201 Engineering Mathematics I 3

Level III

Note: Level III, IV & V are indicative only - for enrolment information continuing students should see: www.ecms.adelaide.edu.au/enrol/guides

Chemical Engineering courses:

Chemical Engineering Applications A 3

Chemical Engineering Applications B 3

Chemical Engineering Applications C 3

Process Control & Utilities 3

Professional Practice III 3

Simulation & Concept Design 3

Level II Computer Science Course 3

Level III Computer Science Course 3

Level IV

Chemical Engineering courses:

Chemical Engineering Core Course 3

Chemical Engineering Unit Operations Lab 3

Materials III 3

Computer Science Courses* 15

*A major in Computer Science requires 18 units at Level III including 12 units of Computer Science courses of which one must be Software Engineering and Project. The above program will satisfy the major sequence.

Level V

Chemical Engineering courses:

Chemical Engineering Research Project H# 3

or

Chemical Engineering Research Project N# 3

Dynamics & Control (Chemical) 3

Process & Product Design 3

Process Design Project 6

Professional Practice IV 3

Elective 6

#Students accepted into the Honours Stream will take Chemical Engineering Research Project H and other students will take Chemical Engineering Research Project N.

Chemical Engineering Electives

Bio-Fuels 3

Biomolecular Engineering 3

Frontier Technologies 3

CHEM ENG 4001 Special Studies in Chemical Engineering 3

CHEM ENG 4002A/B Chemical Engineering Research Elective II 3

CHEM ENG 4004 Minerals Processing 3

CHEM ENG 4021 Combustion Processes 3

CHEM ENG 4024 Environmental Engineering 3

6.5.5.9 B.E (Chemical)/ B.Ma.Comp.Sc. (Mathematics focus)

To qualify for both the award of the degree of B.E.(Chem.) and the degree of B.Ma.Comp.Sc. with a Mathematics focus, candidates are required to complete satisfactorily:

Level I

CHEM 1100 Chemistry IA+ 3

and

CHEM 1200 Chemistry IB+ 3

or

CHEM 1101 Foundations of Chemistry IA+ 3

and

CHEM 1201 Foundations of 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

MATHS 1013 Mathematics IMA* 3

+ Students with a Subject Achievement score of at least 13 in SACE Stage 2 Chemistry or equivalent must enrol in CHEM 1100 /1200. All other students must enrol in CHEM 1101/1201.

* See Clause 6.2 regarding Level I Mathematics requirements.

Level II

CHEM ENG 2010 Introduction to Process Simulation 3

CHEM ENG 2011 Chemical Engineering Thermodynamics 3

CHEM ENG 2014 Process Engineering IIA 3

CHEM ENG 2016 Professional Practice II 3

CHEM ENG 2018 Process Engineering IIB 3

CHEM 2510 Chemistry IIA++ 3

or

CHEM ENG 2530 Environmental & Analytical Chemistry II 3

MATHS 2201 Engineering Mathematics I.....3

MATHS 2202 Engineering Mathematics II.....3

++ CHEM 2100 Chemistry IIA requires either passes in both CHEM 1100 & CHEM 1200 or credits in both CHEM 1101 & CHEM 1201 as prerequisites

Level III

Note: Level III, IV & V are indicative only - for enrolment information continuing students should see: www.ecms.adelaide.edu.au/enrol/guides

Chemical Engineering courses:

Chemical Engineering Applications A.....3

Chemical Engineering Applications B.....3

Chemical Engineering Applications C.....3

Materials III.....3

Process Control & Utilities.....3

Professional Practice III.....3

Simulation & Concept Design.....3

Level IIor III Maths Course*.....3

Level IV

Chemical Engineering course:

Chemical Engineering Unit Operations Lab.....3

Level II or III Maths course*.....3

Level III Maths Courses.....18

*The Mathematics program requires 24 new units with at least 18 being at Level III. Students wishing to study in the area of Pure Mathematics or Statistics should discuss their program with Maths Course Advisers

Level V

Note: Courses listed below are indicative only.

Chemical Engineering courses:

Chemical Engineering Research Project H#.....3

or

Chemical Engineering Research Project N#.....3

Dynamics & Control (Chemical).....3

Process & Product Design.....3

Process Design Project.....6

Professional Practice IV.....3

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.

Chemical Engineering Electives

Bio-Fuels.....3

Biomolecular Engineering.....3

Frontier Technologies.....3

CHEM ENG 4001 Special Studies in Chemical Engineering.....3

CHEM ENG 4002A/B Chemical Engineering Research Elective II.....3

CHEM ENG 4004 Minerals Processing.....3

CHEM ENG 4021 Combustion Processes.....3

CHEM ENG 4024 Environmental Engineering.....3

6.5.5.10 B.E.(Chemical)/B.Sc.

To qualify for a Bachelor of Science award, students must complete a major pursuant to Bachelor of Science Program Rules 5.4.

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:

Level I

CHEM 1100 Chemistry 1A.....3

CHEM 1200 Chemistry 1B+.....3

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

CHEM ENG 1008 Engineering Computing.....3

CHEM ENG 1009 Materials 1.....3

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

MATHS 1011 Mathematics IA*.....3

MATHS 1012 Mathematics IB*.....3

MATHS 1013 Mathematics IMA*.....3

+If students wish to undertake another Level I Science course option (timetabling permitting) they should discuss this with School Course Advisers

* See Clause 6.2 regarding Level I Mathematics requirements.

Level II

CHEM ENG 2010 Introduction to Process Simulation.....3

CHEM ENG 2011 Chemical Engineering Thermodynamics.....3

CHEM ENG 2014 Process Engineering IIA.....3

CHEM ENG 2018 Process Engineering IIB.....3

MATHS 2201 Engineering Mathematics I.....3

Level II Science Courses.....9

Level III

Note: Level III, IV & V are indicative only - for enrolment information continuing students should see: www.ecms.adelaide.edu.au/enrol/guides

Chemical Engineering courses:

Chemical Engineering Applications A.....3

Chemical Engineering Applications B.....3

Chemical Engineering Applications III.....3

Chemical Engineering Unit Operations Lab.....3

Materials III.....3

Process Control & Utilities.....3

Professional Practice III.....3

Simulation & Concept Design.....3

Level IV

Level III Science Courses.....24

Level V

Chemical Engineering courses:

Chemical Engineering Research Project H[#] 3

or

Chemical Engineering Research Project N[#] 3

Dynamics & Control (Chemical) 3

Process & Product Design 3

Process Design Project 6

Professional Practice IV 3

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.

Chemical Engineering Electives

Bio-Fuels 3

Biomolecular Engineering 3

Frontier Technologies 3

CHEM ENG 4001 Special Studies in Chemical Engineering 3

CHEM ENG 4002 A/B Chemical Engineering Research Elective II 3

CHEM ENG 4004 Minerals Processing 3

CHEM ENG 4021 Combustion Processes 3

CHEM ENG 4024 Environmental Engineering 3

6.5.5.11 B.E.(Chemical)/B.Sc.(Biotech.)

To qualify for a Bachelor of Science award, students must complete a major pursuant to Bachelor of Science Program Rules.

To qualify for both the award of the degree of B.E.(Chem.) and the degree of B.Sc.(Biotech.),

Level I

BIOLOGY 1101 Biology I: Molecules, Genes & Cells 3

BIOLOGY 1201 Biology I: Human Perspectives 3

BIOTECH 1000 Introduction to Biotechnology 3

CHEM 1100 Chemistry IA[+] 3

and

CHEM 1200 Chemistry IB[+] 3

or

CHEM 1101 Foundations of Chemistry IA[+] 3

and

CHEM 1201 Foundations of Chemistry IB[+] 3

CHEM ENG 1007 Process Engineering I 3

MATHS 1011 Mathematics IA* 3

MATHS 1012 Mathematics IB* 3

MATHS 1013 Mathematics IMA* 3

[+] Students with a Subject Achievement score of at least 13 in SACE Stage 2 Chemistry or equivalent must enrol in CHEM 1100 /1200. All other students must enrol in CHEM 1101/1201.

* See Clause 6.2 regarding Level I Mathematics requirements.

Level II

BIOCHEM 2502 Biochemistry II (Biotech) Molecular & Cell Biology 3

CHEM ENG 2010 Introduction to Process Simulation 3

CHEM ENG 2011 Chemical Engineering Thermodynamics 3

CHEM ENG 2014 Process Engineering IIA 3

CHEM ENG 2015 Principles of Biotechnology II 3

CHEM ENG 2016 Professional Practice II 3

CHEM ENG 2018 Process Engineering IIB 3

MATHS 2201 Engineering Mathematics I 3

Level III

Note: Level III, IV & V are indicative only - for enrolment information continuing students should see: www.ecms.adelaide.edu.au/enrol/guides

Biochemistry course:

Biochemistry II (Biotechnology) B 3

Chemical Engineering courses:

Chemical Engineering Applications A 3

Chemical Engineering Applications B 3

Chemical Engineering Unit Operations Lab 3

Process Control & Utilities 3

Professional Practice III 3

Simulation & Concept Design 3

MICRO 2002 Microbiology II (Biotech) 3

Level IV

BIOCHEM 3000 Molecular & Structural Biology III 6

BIOCHEM 3001 Cell & Development Biology III 6

or

PHARM 3011 Pharmacology B III 6

BIOTECH 3000 Biotechnology Practice III 6

PHARM 3010 Pharmacology A III 6

Level V

Chemical Engineering courses:

Chemical Engineering Applications C 3

Chemical Engineering Research Project H[#] 3

or

Chemical Engineering Research Project N[#] 3

Dynamics & Control (Chemical) 3

Process & Product Design 3

Process Design Project 6

Professional Practice IV 3

Elective 3

[#] Students accepted into the Honours Stream will take Chemical Engineering Research Project H and other students will take Chemical Engineering Research Project N.

Chemical Engineering elective courses

Bio-Fuels 3

CHEM ENG 4008 Biochemical Engineering..... 3

CHEM ENG 4021 Combustion Processes 3

Genetics course:

Genetics II: Foundation of Genetics..... 3

6.5.6 Civil and Environmental Engineering

6.5.6.1 B.E.(Civil & Environmental)

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 1009 Civil & Environmental Engineering IA 3

C&ENVENG 1010 Engineering Mechanics - Statics 3

C&ENVENG 1012 Engineering Modelling & Analysis IA 3

ENV BIOL 1002 Ecological Issues..... 3

GEOLOGY 1104 Geology for Engineers..... 3

MATHS 1011 Mathematics IA 3

MATHS 1012 Mathematics IB 3

Level II

CHEM ENG 2017 Transport Processes in the Environment..... 3

C&ENVENG 2067 Construction Management & Surveying 3

C&ENVENG 2068 Environmental Engineering & Sustainability II..... 3

C&ENVENG 2069 Geotechnical Engineering IIA ... 3

C&ENVENG 2070 Engineering Modelling & Analysis IIA 3

C&ENVENG 2071 Water Engineering IIA..... 3

ENV BIOL 2005 Ecology for Engineers II..... 3

MATHS 2201 Engineering Mathematics I..... 3

Level III

Note: Level III & IV are indicative only - for enrolment information continuing students should see: www.ecms.adelaide.edu.au/enrol/guides

Civil & Environmental Engineering courses:

C&ENVENG 3011 Engineering Management & Planning IIIA..... 3

C&ENVENG 3014 Water Engineering & Design S2 3

Engineering Hydrology 3

Environmental Engineering & Sustainability III..... 3

Environmental Modelling and Management..... 3

CHEM ENG 3011 Transport Processes in the Environment..... 3

ECON 3018 Environmental Economics..... 3

ENV BIOL 2005 Ecology E..... 3

Level IV

C&ENVENG 4005A/B Civil & Environmental Research Project Part 1 & 2^ 6

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

C&ENVENG 4037 Introduction to Environmental Law 3

Specialisations 12

^ Students who are not selected for Honours will be required to complete 2 additional final year specialisation courses instead of the Civil & Environmental Research Project.

Specialisations

Students may take 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 School, replace one or more specialisation courses with appropriate courses offered by other schools in the University.

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

Group II: Geotechnical Engineering

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

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

Group III: Water Engineering

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

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

C&ENVENG 4077 Coastal Engineering & Design .. 3

C&ENVENG 4097 Analysis of Rivers & Sediment Transport..... 3

C&ENVENG 4098 Water Resources Sustainability & Design..... 3

Group IV: Management Engineering

C&ENVENG 4085 Traffic Engineering & Design ... 3

Group V: Environmental Engineering

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

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

C&ENVENG 4092 Wastewater Engineering & Design..... 3

6.5.6.2 B.E.(Civil & Environmental)/B.A.

To satisfy the Arts component of this program, students commencing in 2009 must undertake 30 units of Arts courses, which includes an approved major sequence (24 units). The remaining 6 units can be undertaken at any level. Students should consult the Bachelor of Arts academic program rules for the list of approved major sequences and the specific requirements of each.

To satisfy the BE (Civil & Environmental) component of this program candidates are required to satisfactorily complete the courses listed below:

Level I

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

ENV BIOL 1002 Ecological Issues I 3

MATHS 1011 Mathematics IA* .....

MATHS 1012 Mathematics IB * 3

MATHS 1013 Mathematics IMA* 3

Level I Arts Course 3

* See Clause 6.2 regarding Level I Mathematics requirements.

Level II

C&ENVENG 2067 Construction Management & Surveying 3

C&ENVENG 2068 Environmental Engineering & Sustainability II 3

C&ENVENG 2069 Geotechnical Engineering IIA ... 3

C&ENVENG 2070 Engineering Modelling & Analysis IIA 3

C&ENVENG 2071 Water Engineering IIA 3

CHEM ENG 2017 Transport Porcesses in the Environment 3

MATHS 2201 Engineering Mathematics I 3

Level I Arts Course 3

Level III

Note: Level III, IV & V are indicative only - for enrolment information continuing students should see: www.ecms.adelaide.edu.au/enrol/guides

Civil & Environmental Engineering courses:

Construction Management & Surveying 3

Environmental Engineering & Sustainability III 3

Engineering Hydrology 3

Environmental Modelling & Management 3

Water Engineering & Design III S2 3

C&ENVENG 3012 Geotechnical Engineering Design III 3

CHEM ENG 3011 Transport Processes in the Environment 3

ENV BIOL 2005 Ecology E 3

Level IV

C&ENVENG 4005A/B Civil & Environmental Research Project Part 1 & 2 ^ 6

C&ENVENG 4034 Engineering Management IV 3

C&ENVENG 4037 Introduction to Environmental Law 3

Specialisations 12

^ Students who are not selected for Honours will be required to complete 2 additional final year specialisation courses instead of the Civil & Environmental Research Project

Specialisations

Students may take 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 School, replace one or more specialisation courses with appropriate courses offered by other schools in the University.

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

Group II: Geotechnical Engineering

C&ENVENG 4079 Deep Foundation Engineering & Design 3

C&ENVENG 4081 Expansive Soils & Footing Design 3

Group III: Water Engineering

C&ENVENG 4073 Water Distribution Systems & Design 3

C&ENVENG 4075 Water Resources Optimisation & Modelling 3

C&ENVENG 4077 Coastal Engineering & Design .. 3

C&ENVENG 4097 Analysis of Rivers & Sediment Transport 3

C&ENVENG 4098 Water Resources Sustainability & Design 3

Group IV: Management Engineering

C&ENVENG 4085 Traffic Engineering & Design ... 3

Group V: Environmental Engineering

C&ENVENG 4087 Environmental Modelling, Management & Design 3

C&ENVENG 4091 Waste Management Analysis & Design 3

C&ENVENG 4092 Wastewater Engineering & Design 3

Level V

Advanced Level Arts Courses 24

6.5.6.3 B.E.(Civil & Environmental)/B.Ec.

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:

Level I

C&ENVENG 1008 Engineering Planning & Design IA 3

C&ENVENG 1009 Civil & Environmental Engineering I 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

MATHS 1011 Mathematics IA* .....

MATHS 1012 Mathematics IB * 3

MATHS 1013 Mathematics IMA* 3

* See Clause 6.2 regarding Level I Mathematics requirements

Level II

C&ENVENG 2067 Construction Management and Surveying 3

C&ENVENG 2068 Environmental Engineering & Sustainability II 3

C&ENVENG 2069 Geotechnical Engineering IIA ... 3

C&ENVENG 2070 Engineering Modelling & Analysis IIA 3

C&ENVENG 2071 Water Engineering IIA 3

CHEM ENG 2017 Transport Processes in the Environment 3

ECON 1000 Principles of Macroeconomics I 3

MATHS 2201 Engineering Mathematics I 3

Level III

Note: Level III, IV & V are indicative only - for enrolment information continuing students should see: www.ecms.adelaide.edu.au/enrol/guides

CHEM ENG 3011 Transport Processes in the Environment 3

Civil & Environmental Engineering courses:

Environmental Engineering & Sustainability III 3

Engineering Hydrology 3

Water Engineering & Design III S2 3

C&ENVENG 3012 Geotechnical Engineering Design III 3

ECON 2506 Intermediate Microeconomics 3

ECON 2507 Intermediate Macroeconomics 3

ENV BIOL 2005 Ecology E 3

Level IV

Level II Economics Course 3

Level III Economics Courses* 18

ECON 2504 Economic & Financial Data Analysis II 3

* Level III Economics courses chosen from those listed in the Specific Academic Program Rules of the Degree of Bachelor of Economics.

Level V

C&ENVENG 4005A/B Civil & Environmental Research Project Part 1 & 2^ 6

C&ENVENG 4034 Engineering Management IV 3

C&ENVENG 4037 Introduction to Environmental Law 3

Specialisations 12

^ Students who are not selected for Honours will be required to complete 2 additional final year specialisation courses instead of the Civil & Environmental Research Project

Specialisations

Students may take 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 School, replace one or more specialisation courses with appropriate courses offered by other schools in the University.

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

Group II: Geotechnical Engineering

C&ENVENG 4079 Deep Foundation Engineering & Design 3

C&ENVENG 4081 Expansive Soils & Footing Design 3

Group III: Water Engineering

C&ENVENG 4073 Water Distribution Systems & Design 3

C&ENVENG 4075 Water Resources Optimisation & Modelling 3

C&ENVENG 4077 Coastal Engineering & Design .. 3

C&ENVENG 4097 Analysis of Rivers & Sediment Transport 3

C&ENVENG 4098 Water Resources Sustainability & Design 3

Group IV: Management Engineering

C&ENVENG 4085 Traffic Engineering & Design 3

Group V: Environmental Engineering

C&ENVENG 4087 Environmental Modelling, Management & Design 3

C&ENVENG 4091 Waste Management Analysis & Design 3

C&ENVENG 4092 Wastewater Engineering & Design 3

6.5.6.4 B.E.(Civil & Environmental)/B.Fin.

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:

Level I

C&ENVENG 1008 Engineering Planning & Design IA 3

C&ENVENG 1009 Civil & Environmental Engineering I 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

MATHS 1011 Mathematics IA* 3

MATHS 1012 Mathematics IB* 3

MATHS 1013 Mathematics IMA* 3

*See Clause 6.2 regarding Level I Mathematics requirementsl.

Level II

ACCTING 1002 Accounting for Decision Makers I 3

C&ENVENG 2068 Environmental Engineering & Sustainability II 3

C&ENVENG 2069 Geotechnical Engineering IIA ... 3

C&ENVENG 2070 Engineering Modelling & Analysis IIA 3

C&ENVENG 2071 Water Engineering IIA 3

ECON 1000 Principles of Macroeconomics I 3

ECON 1009 International Finance Institutions & Markets I 3

MATHS 2201 Engineering Mathematics I 3

Level III

Note: Level III, IV & V are indicative only - for enrolment information continuing students should see: www.ecms.adelaide.edu.au/enrol/guides

Civil & Environmental Engineering courses:

Environmental Engineering & Sustainability III 3

Engineering Hydrology 3

Structural Engineering Design IIA 3

C&ENVENG 2025 Strength of Materials IIA 3

C&ENVENG 3012 Geotechnical Engineering Design III 3

CORPFIN 2500 Business Finance II 3

ECON 2508 Financial Economics II 3

Mathematics course 3

Level IV

Civil & Environmental Engineering course:

Water Engineering & Design III S2 3

ENV BIOL 2005 Ecology E 3

Level III Economics course 3

Level III Finance sourses 15

Level II or III courses offered by the School of Mathematics 3

Level V

C&ENVENG 4005A/B Civil & Environmental Research Project Part 1 & 2^ 6

C&ENVENG 4034 Engineering Management IV 3

C&ENVENG 4037 Introduction to Environmental Law 3

Specialisations 12

^ Students who are not selected for Honours will be required to complete 2 additional final year specialisation courses instead of the Civil & Environmental Research Project.

Specialisations

Students may take 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 School, replace one or more specialisation courses with appropriate courses offered by other schools in the University.

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

Group II: Geotechnical Engineering

C&ENVENG 4079 Deep Foundation Engineering & Design 3

C&ENVENG 4081 Expansive Soils & Footing Design 3

Group III: Water Engineering

C&ENVENG 4073 Water Distribution Systems & Design 3

C&ENVENG 4075 Water Resources Optimisation & Modelling 3

C&ENVENG 4077 Coastal Engineering & Design .. 3

C&ENVENG 4097 Analysis of Rivers & Sediment Transport 3

C&ENVENG 4098 Water Resources Sustainability & Design 3

Group IV: Management Engineering

C&ENVENG 4085 Traffic Engineering & Design ... 3

Group V: Environmental Engineering

C&ENVENG 4087 Environmental Modelling, Management & Design 3

C&ENVENG 4091 Waste Management Analysis & Design 3

C&ENVENG 4092 Wastewater Engineering & Design 3

6.5.6.5 B.E.(Civil & Environmental)/B.Ma.& Comp.Sc.

To qualify for both the award of the degree of B.E.(Civil & Environmental) and the degree of B.Ma.Comp.Sc. with a Computer Science Major, candidates are required to complete satisfactorily:

Level I

C&ENVENG 1008 Engineering Planning & Design IA 3

C&ENVENG 1009 Civil & Environmental Engineering IA 3

C&ENVENG 1010 Engineering Mechanics - Statics 3

COMP SCI 1008 Computer Science IA 3

COMP SCI 1009 Computer Science IB 3

ENV BIOL 1002 Ecological Issues 3

MATHS 1011 Mathematics IA* 3

MATHS 1012 Mathematics IB* 3

MATHS 1013 Mathematics IMA* 3

* See Clause 6.2 regarding Level I Mathematics requirements

Level II

C&ENVENG 2067 Construction Management & Surveying 3

C&ENVENG 2068 Environmental Engineering & Sustainability II 3

C&ENVENG 2069 Geotechnical Engineering IIA 3

C&ENVENG 2071 Water Engineering IIA 3

CHEM ENG 2017 Transport Process in the Environment 3

ENV BIOL 2005 Ecology for Engineers II 3

MATHS 2201 Engineering Mathematics I 3

MATHS 2202 Engineering Mathematics 2 3

Level III

Note: Level III, IV & V are indicative only - for enrolment information continuing students should see: www.ecms.adelaide.edu.au/enrol/guides

Civil & Environmental Engineering courses:

Environmental Engineering & Sustainability III 3

Engineering Hydrology 3

Water Engineering & Design III S2 3

C&ENVENG 3011 Engineering Management & Planning IIIA 3

C&ENVENG 3012 Geotechnical Engineering Design III 3

COMP SCI 2000 Computer Systems 3

COMP SCI 2004 Data Structures & Algorithms 3

Elective 3

Level V

Computer Science Courses at Level III* 18

ECON 3018 Environmental Economics 3

Specialisation 3

* Program gives focus in Compuer Sciences only. To obtain a major 12 of the 18 units must be at Level III, and include Software Engineering and Project, and students must also present a Pass in another Level II Computer Science course.

Level V

C&ENVENG 4005A/B Civil & Environmental Research Project^ 6

C&ENVENG 4034 Engineering Management IV 3

C&ENVENG 4037 Introduction to Environmental Law 3

Specialisations 12

^ Students who are not selected for Honours will be required to complete 2 additional final year specialisation courses instead of the Civil & Environmental Research Project.

Specialisations

Students may take 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 School, replace one or more specialisation courses with appropriate courses offered by other schools in the University.

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

Group II: Geotechnical Engineering

C&ENVENG 4079 Deep Foundation Engineering & Design 3

C&ENVENG 4081 Expansive Soils & Footing Design 3

Group III: Water Engineering

C&ENVENG 4073 Water Distribution Systems & Design 3

C&ENVENG 4075 Water Resources Optimisation & Modelling 3

C&ENVENG 4077 Coastal Engineering & Design 3

C&ENVENG 4097 Analysis of Rivers & Sediment Transport 3

C&ENVENG 4098 Water Resources Sustainability & Design 3

Group IV: Management Engineering

C&ENVENG 4085 Traffic Engineering & Design 3

Group V: Environmental Engineering

C&ENVENG 4087 Environmental Modelling, Management & Design 3

C&ENVENG 4092 Wastewater Engineering & Design 3

C&ENVENG 4091 Waste Management Analysis & Design 3

6.5.6.6 B.E (Civil & Environmental)/ B.Ma.&Comp.Sc. (Mathematics focus)

To qualify for both the award of the degree of B.E.(Civil & Environmental) and the degree of B.Ma.Comp.Sc. with a Mathematics Major, candidates are required to complete satisfactorily:

Level I

C&ENVENG 1008 Engineering Planning & Design IA 3

C&ENVENG 1009 Civil & Environmental Engineering I 3

C&ENVENG 1010 Engineering Mechanics - Statics 3

C&ENVENG 1012 Engineering Modelling & Analysis IA 3

ENV BIOL 1002 Ecological Issues 3

GEOLOGY 1104 Geology for Engineers 3

MATHS 1011 Mathematics IA 3

MATHS 1012 Mathematics IB 3

MATHS 1013 Mathematics IMA* 3

*See Clause 6.2 regarding Level I Mathematics requirements

Level II

C&ENVENG 2067 Construction Management & Surveying 3

C&ENVENG 2068 Environmental Engineering & Sustainability II 3

C&ENVENG 2069 Geotechnical Engineering IIA ... 3

C&ENVENG 2070 Engineering Modelling & Analysis IIA 3

C&ENVENG 2071 Water Engineering IIA 3

CHEM ENG 2017 Transport Processes in the Environment 3

ENV BIOL 2005 Ecology for Engineers II 3

MATHS 2201 Engineering Mathematics I 3

Level III

Note: Level III, IV & V are indicative only - for enrolment information continuing students should see: www.ecms.adelaide.edu.au/enrol/guides

Students requiring to study in the area of Pure Maths or Statistics should consult Maths Course Advisers in regards to their Level III assumed knowledge. Students may present 6 units at Level II and 18 units of Level III of 24 units of Maths courses outlined in Level IV below.

Civil & Environmental Engineering courses:

Environmental Engineering & Sustainability III 3

Engineering Hydrology 3

Engineering Management & Planning IIIA 3

Environmental Modelling & Management 3

Water Engineering & Design III S2 .....

C&ENVENG 3012 Geotechnical Engineering Design III 3

Mathematics course:

Engineering Mathematics II 3

Elective 3

Level IV

Level III Maths Courses 24

Level V

C&ENVENG 4005A/B Civil & Environmental Research Project ^ 6

C&ENVENG 4034 Engineering Management IV 3

C&ENVENG 4037 Introduction to Environmental Law 3

Specialisations 12

^ Students who are not selected for Honours will be required to complete 2 additional final year specialisation courses instead of the Civil & Environmental Research Project.

Specialisations

Students may take 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 School, replace one or more specialisation courses with appropriate courses offered by other schools in the University.

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

Group II: Geotechnical Engineering

C&ENVENG 4079 Deep Foundation Engineering |& Design 3

C&ENVENG 4081 Expansive Soils & Footing Design 3

Group III: Water Engineering

C&ENVENG 4073 Water Distribution Systems & Design 3

C&ENVENG 4075 Water Resources Optimisation & Modelling 3

C&ENVENG 4077 Coastal Engineering & Design .. 3

C&ENVENG 4097 Analysis of Rivers & Sediment Transport 3

C&ENVENG 4098 Water Resources Sustainability & Design 3

Group IV: Management Engineering

C&ENVENG 4085 Traffic Engineering & Design ... 3

Group V: Environmental Engineering

C&ENVENG 4087 Environmental Modelling, Management & Design 3

C&ENVENG 4092 Wastewater Engineering & Design 3

C&ENVENG 4091 Waste Management Analysis & Design 3

6.5.6.7 B.E.(Civil & Environmental)/B.Sc.

To qualify for a Bachelor of Science award, students must complete a major pursuant to Bachelor of Science Program Rules.

To qualify for the award of the degree of B.E.(Civil & Environmental) and the degree of B.Sc., candidates are required to complete satisfactorily:

Level I

C&ENVENG 1008 Engineering Planning & Design IA 3

C&ENVENG 1010 Engineering Mechanics - Statics 3

C&ENVENG 1009 Civil & Environmental Engineering I 3

C&ENVENG 1012 Engineering Modelling & Analysis IA 3

MATHS 1011 Mathematics IA 3

MATHS 1012 Mathematics IB 3

MATHS 1013 Mathematics IMA*

Level I Science Courses 6

* See Clause 6.2 regarding Level I Mathematics requirements.

Level II

MATHS 2201 Engineering Mathematics I 3

MATHS 2202 Engineering Mathematics 2 3

C&ENVENG 2068 Environmental Engineering & Sustainability II 3

C&ENVENG 2069 Geotechnical Engineering IIA 3

C&ENVENG 2067 Construction Management & Surveying 3

C&ENVENG 2070 Engineering Modelling & Analysis IIA 3

C&ENVENG 2071 Water Engineering IIA 3

Level II Science course 3

Level III

Note: Level III, IV & V are indicative only - for enrolment information continuing students should see: www.ecms.adelaide.edu.au/enrol/guides

Civil & Environmental Engineering courses:

Environmental Engineering & Sustainability III 3

Engineering Hydrology 3

C&ENVENG 3011 Engineering Management & Planning IIIA 3

C&ENVENG 3012 Geotechnical Engineering Design III 3

ECON 3018 Environmental Economics 3

Level II Science Course 6

Level II Science Course 3

Level IV

Level III Science Courses 24

Level V

C&ENVENG 4005A/B Civil & Environmental Research Project ^ 6

C&ENVENG 4034 Engineering Management IV 3

C&ENVENG 4037 Introduction to Environmental Law 3

Specialisations 12

^ Students who are not selected for Honours will be required to complete 2 additional final year specialisation courses instead of the Civil & Environmental Research Project.

Specialisations

Students may take 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 School, replace one or more specialisation courses with appropriate courses offered by other schools in the University.

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

Group II: Geotechnical Engineering

C&ENVENG 4079 Deep Foundation Engineering & Design 3

C&ENVENG 4081 Expansive Soils & Footing Design 3

Group III: Water Engineering

C&ENVENG 4073 Water Distribution Systems & Design 3

C&ENVENG 4075 Water Resources Optimisation & Modelling 3

C&ENVENG 4077 Coastal Engineering & Design 3

C&ENVENG 4097 Analysis of Rivers & Sediment Transport 3

C&ENVENG 4098 Water Resources Sustainability & Design 3

Group IV: Management Engineering

C&ENVENG 4085 Traffic Engineering & Design 3

Group V: Environmental Engineering

C&ENVENG 4087 Environmental Modelling, Management & Design 3

C&ENVENG 4092 Wastewater Engineering & Design 3

C&ENVENG 4091 Waste Management Analysis & Design 3

6.5.7 Civil & Structural Engineering

6.5.7.1 B.E.(Civil & Structural)

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 1009 Civil & Environmental Engineering IA 3

C&ENVENG 1010 Engineering Mechanics - Statics 3

C&ENVENG 1012 Engineering Modelling & Analysis IA 3

GELOGY 1104 Geology for Engineers..... 3

MATHS 1011 Mathematics IA 3

MATHS 1012 Mathematics IB 3

MECH ENG 1007 Engineering Mechanics - Dynamics 3

Level II

C&ENVENG 2025 Strength of Materials IIA 3

C&ENVENG 2067 Construction Management & Surveying 3

C&ENVENG 2068 Environmental Engineering & Sustainability II..... 3

C&ENVENG 2069 Geotechnical Engineering IIA ... 3

C&ENVENG 2070 Engineering Modelling & Analysis IIA 3

C&ENVENG 2071 Water Engineering IIA..... 3

C&ENVENG 2072 Structural Engineering Design.. 3

MATHS 2201 Engineering Mathematics I..... 3

Level III

Note: Level III, IV & V are indicative only - for enrolment information continuing students should see: www.ecms.adelaide.edu.au/enrol/guides

Civil & Structural Engineering courses:

Environmental Engineering III 3

Engineering Hydrology III 3

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 & Analysis III..... 3

C&ENVENG 3011 Engineering Management & Planning 3

C&ENVENG 3012 Geotechnical Engineering Design III..... 3

Level IV

C&ENVENG 4003A/B Civil & Structural Engineering Research Project ^ 6

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

Specialisation courses to the value of at least 15 units 15

^ Students who are not selected for Honours will be required to complete 2 additional final year specialisation courses instead of the Civil & Structural Research Project.

Specialisations

Students should take at least two courses from the one group. The remaining 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 specialisation courses may be acceptable but must be approved by the Head of School.

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

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 & Design 3

C&ENVENG 4069 Advanced Reinforced Concrete 3

C&ENVENG 4099 Structural Response to Blast Loading..... 3

Group II: Geotechnical Engineering

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

Group III: Water Engineering

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

C&ENVENG 4075 Water Resources Optimisation & Modelling 3

C&ENVENG 4098 Water Resources Sustainability & Design..... 3

Group IV: Management Engineering

C&ENVENG 4085 Traffic Engineering & Design 3

Group V: Environmental Engineering

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

C&ENVENG 4092 Wastewater Engineering & Design..... 3

6.5.7.2 B.E.(Civil & Structural)/B.A.

To satisfy the Arts component of this program, students commencing in 2009 must undertake 30 units of Arts courses, which includes an approved major sequence (24 units). The remaining 6 units can be undertaken at any level. Students should consult the Bachelor of Arts academic program rules for the list of approved major sequences and the specific requirements of each.

To satisfy the BE (Civil & Structural) component of this program candidates are required to satisfactorily complete the courses listed below:

Level I

C&ENVENG 1008 Engineering Planning & Design IA 3

C&ENVENG 1009 Civil & Environmental Engineering I 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

MATHS 1013 Mathematics IMA* 3

Arts course 3

MECH ENG 1007 Engineering Mechanics - Dynamics 3

* See Clause 6.2 regarding Level I Mathematics requirements.

Level II

C&ENVENG 2025 Strength of Materials IIA 3

C&ENVENG 2067 Construction Management & Surveying 3

C&ENVENG 2068 Environmental Engineering & Sustainability II 3

C&ENVENG 2069 Geotechnical Engineering IIA ... 3

C&ENVENG 2070 Engineering Modelling & Analysis IIA 3

C&ENVENG 2071 Water Engineering IIA 3

C&ENVENG 2072 Structural Engineering Design .. 3

MATHS 2201 Engineering Mathematics I 3

Level III

Note: Level III, IV & V are indicative only - for enrolment information continuing students should see: www.ecms.adelaide.edu.au/enrol/guides

Arts Course 3

Civil & Structural Engineering courses:

Engineering Hydrology 3

Water Engineering & Design III 3

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 3011 Engineering Management & Planning IIIA 3

C&ENVENG 3012 Geotechnical Engineering Design III 3

Level IV

Civil & Structural Engineering courses:

Civil & Structural core course 3

C&ENVENG 4003A/B Civil & Structural Engineering Research Project ^ 6

C&ENVENG 4034 Engineering Management IV 3

Specialisations 12

^ Students who are not selected for Honours will be required to complete 2 additional final year specialisation courses instead of the Civil & Structural Research Project.

Level V

Advanced Level Arts Courses 24

Specialisations

Students should take at least two courses from the one group. The remaining 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 specialisation courses may be acceptable but must be approved by the Head of School.

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

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 & Design 3

C&ENVENG 4069 Advanced Reinforced Concrete 3

C&ENVENG 4099 Structural Response to Blast Loading 3

Group II: Geotechnical Engineering

C&ENVENG 4079 Deep Foundation Engineering & Design 3

Group III: Water Engineering

C&ENVENG 4073 Water Distribution Systems & Design 3

C&ENVENG 4075 Water Resources Optimisation & Modelling 3

C&ENVENG 4098 Water Resources Sustainability & Design 3

Group IV: Management Engineering

C&ENVENG 4085 Traffic Engineering & Design 3

Group V: Environmental Engineering

C&ENVENG 4091 Waste Management Analysis & Design 3

C&ENVENG 4092 Wastewater Engineering & Design 3

6.5.7.3 B.E.(Civil & Structural)/B.Ec.

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:

Level I

C&ENVENG 1008 Engineering Planning & Design IA 3

C&ENVENG 1009 Civil & Environmental Engineering I 3

C&ENVENG 1010 Engineering Mechanics - Statics 3

C&ENVENG 1012 Engineering Modelling & Analysis IA 3

ECON 1004 Principles of Microeconomics I 3

MATHS 1011 Mathematics IA 3

MATHS 1012 Mathematics IB 3

MATHS 1013 Mathematics IMA* 3

MECHENG 1007 Engineering Mechanics - Dynamics 3

* See Clause 6.2 regarding Level I Mathematics requirements.

Level II

C&ENVENG 2025 Strength of Materials IIA 3

C&ENVENG 2068 Environmental Engineering & Sustainability II 3

C&ENVENG 2069 Geotechnical Engineering IIA ... 3

C&ENVENG 2070 Engineering Modelling & Analysis IIA 3

C&ENVENG 2071 Water Engineering IIA 3

C&ENVENG 2072 Structural Engineering Design .. 3

MATHS 2201 Engineering Mathematics I 3

ECON 1000 Principles of Macroeconomics 3

Level III

Note: Level III, IV & V are indicative only - for enrolment information continuing students should see: www.ecms.adelaide.edu.au/enrol/guides

Civil & Structural Engineering courses:

Engineering Modelling & Analysis III 3

Water Engineering & Design III 3

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

ECON 2506 Intermediate Microeconomics II 3

ECON 2507 Intermediate Macroeconomics II 3

Level IV

COMMGMT 2500 Organisational Behaviour II 3

or

ECON elective at Level II 3

ECON2504 Intermediate Economics II 3

Plus 18 units of Level III Economics courses chosen from those listed in the Specific Academic Program Rules of the degree of Bachelor of Economics.

Level V

Civil & Structural Engineering courses:

Civil & Structural core course 3

C&ENVENG 4003A/B Civil & Structural Engineering Research Project ^ 6

C&ENVENG 4034 Engineering Management IV 3

Specialisations 12

^ Students who are not selected for Honours will be required to complete 2 additional final year specialisation courses instead of the Civil & Structural Research Project.

Specialisations

Students should take at least two courses from the one group. The remaining 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 specialisation courses may be acceptable but must be approved by the Head of School. Students may also, with the approval of the Head of School, replace one or more specialisation courses with appropriate courses offered by other schools in the University.

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 & Design 3

C&ENVENG 4069 Advanced Reinforced Concrete 3

C&ENVENG 4099 Structural Response to Blast Loading 3

Group II: Geotechnical Engineering

C&ENVENG 4079 Deep Foundation Engineering & Design 3

Group III: Water Engineering

C&ENVENG 4073 Water Distribution Systems & Design 3

C&ENVENG 4075 Water Resources Optimisation & Modelling 3

C&ENVENG 4098 Water Resources Sustainability & Design 3

Group IV: Management Engineering

C&ENVENG 4085 Traffic Engineering & Design 3

Group V: Environmental Engineering

C&ENVENG 4091 Waste Management Analysis & Design 3

C&ENVENG 4092 Wastewater Engineering & Design 3

6.5.7.4 B.E.(Civil & Structural)/B.Fin.

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:

Level I

C&ENVENG 1008 Engineering Planning & Design IA 3

C&ENVENG 1009 Civil & Environmental Engineering IA 3

C&ENVENG 1012 Engineering Modelling & Analysis IA 3

C&ENVENG 1010 Engineering Mechanics - Statics 3

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

MATHS 1011 Mathematics IA 3

MATHS 1012 Mathematics IB 3

MATHS 1013 Mathematics IMA* 3

MECHENG 1007 Engineering Mechanics - Dynamics 3

* See Clause 6.2 regarding Level I Mathematics requirements.

Level II

ACCTING 1002 Accounting for Decision Makers I3

C&ENVENG 2025 Strength of Materials IIA 3

C&ENVENG 2069 Geotechnical Engineering IIA ... 3

C&ENVENG 2071 Water Engineering IIA..... 3

C&ENVENG 2072 Structural Engineering Design.. 3

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

ECON 1009 International Finance Institutions & Markets I 3

MATHS 2201 Engineering Mathematics 1 3

Level III

Note: Level III, IV & V are indicative only - for enrolment information continuing students should see: www.ecms.adelaide.edu.au/enrol/guides

Civil & Structural Engineering courses:

Civil & Structural core course 3

C&ENVENG 2068 Environmental Engineering & Sustainability II..... 3

C&ENVENG 3001 Structural Mechanics IIIA 3

C&ENVENG 3005 Structural Design III (Concrete) 3

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

CORPFIN 2500 Business Finance II 3

ECON 2504 Intermediate Econometrics..... 3

ECON 2508 Financial Economics II..... 3

Level IV

Civil & Structural Engineering courses:

Engineering Modelling & Analysis III 3

Water Engineering & Design IIIA 3

Water Engineering & Design IIIB 3

C&ENVENG 3012 Geotechnical Engineering Design III..... 3

Level III Finance Courses..... 12

Level V

C&ENVENG 4003A/B Civil & Structural Engineering Research Project ^ 6

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

Electives chosen from Specialisations below..... 9

Level III Finance Courses..... 6

^ Students who are not selected for Honours will be required to complete 2 additional final year specialisation courses instead of the Civil & Structural Research Project.

Specialisations

Students should take at least two courses from the one group. The remaining 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 specialisation courses may be acceptable but must be approved by the Head of School. Students may also, with the approval of the Head of School, replace one or more specialisation courses with appropriate courses offered by other schools in the University.

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 & Design 3

C&ENVENG 4069 Advanced Reinforced Concrete. 3

C&ENVENG 4099 Structural Response to Blast Loading..... 3

Group II: Geotechnical Engineering

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

Group III: Water Engineering

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

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

C&ENVENG 4098 Water Resources Sustainability & Design..... 3

Group IV: Management Engineering

C&ENVENG 4085 Traffic Engineering & Design 3

Group V: Environmental Engineering

C&ENVENG 4092 Wastewater Engineering & Design..... 3

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

6.5.7.6 B.E.(Civil & Structural)/B.Ma.&Comp.Sc. (Computer Science focus)

To qualify for both the award of the degree of B.E.(Civil & Structural) and the degree of B.Ma. Comp.Sc. with a Computer Science Major, candidates are required to complete satisfactorily:

Level I

C&ENVENG 1008 Engineering Planning & Design IA 3

C&ENVENG 1009 Civil & Environmental Engineering IA 3

C&ENVENG 1010 Engineering Mechanics - Statics 3

COMP SCI 1008 Computer Science IA 3

COMP SCI 1009 Computer Science IB 3

MATHS 1011 Mathematics IA 3

MATHS 1012 Mathematics IB 3

MATHS 1013 Mathematics IMA* 3

MECH ENG 1007 Engineering Mechanics - Dynamics 3

* See Clause 6.2 regarding Level I Mathematics requirements.

Level II

MATHS 2201 Engineering Mathematics I 3

MATHS 2202 Engineering Mathematics II 3

C&ENVENG 2068 Environmental Engineering & Sustainability II 3

C&ENVENG 2025 Strength of Materials IIA 3

C&ENVENG 2067 Construction Management & Surveying 3

C&ENVENG 2069 Geotechnical Engineering IIA ... 3

C&ENVENG 2071 Water Engineering IIA 3

C&ENVENG 2072 Structural Engineering Design 3

Level III

Note: Level III, IV & V are indicative only - for enrolment information continuing students should see: www.ecms.adelaide.edu.au/enrol/guides

Civil & Structural Engineering courses:

Civil & Structural core course 3
Engineering Hydrology 3

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

COMP SCI 2000 Computer Systems 3

COMP SCI 2004 Data Structures & Algorithms 3

Level IV

C&ENVENG 3011 Engineering Management & Planning IIIA 3

Maths & Computer Science Courses* 21

* A major in Computer Science requires the 21 units at Level IV to contain a 3 unit Level II course and 12 units of Level III Computer Science courses, one of which must be Software Engineering & Project

Level V

Civil & Structural Engineering courses:

Civil & Structural core course 3

C&ENVENG 4003A/B Civil & Structural Engineering Research Project ^ 6

C&ENVENG 4034 Engineering Management IV 3

Specialisations 12

^ Students who are not selected for Honours will be required to complete 2 additional final year specialisation courses instead of the Civil & Structural Research Project.

Specialisations

Students should take at least two courses from the one group. The remaining 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 specialisation courses may be acceptable but must be approved by the Head of School. Students may also, with the approval of the Head of School, replace one or more specialisation courses with appropriate courses offered by other schools in the University.

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 & Design 3

C&ENVENG 4069 Advanced Reinforced Concrete 3

C&ENVENG 4099 Structural Response to Blast Loading 3

Group II: Geotechnical Engineering

C&ENVENG 4079 Deep Foundation Engineering & Design 3

Group III: Water Engineering

C&ENVENG 4073 Water Distribution Systems & Design 3

C&ENVENG 4075 Water Resources Optimisation & Modelling 3

C&ENVENG 4098 Water Resources Sustainability & Design 3

Group IV: Management Engineering

C&ENVENG 4085 Traffic Engineering & Design 3

Group V: Environmental Engineering

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

C&ENVENG 4092 Wastewater Engineering & Design....3

6.5.7.7 B.E (Civil & Structural)/ B.Ma.&Comp.Sc. (Mathematics focus)

To qualify for both the award of the degree of B.E.(Civil & Structural) and the degree of B.Ma. Comp.Sc. with a Mathematics focus, candidates are required to complete satisfactorily:

Level I

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

GEOLOGY 1104 Geology for Engineers....3

MATHS 1011 Mathematics IA....3

MATHS 1012 Mathematics IB....3

MATHS 1013 Mathematics IMA*

MECH ENG 1007 Engineering Mechanics - Dynamics....3

* See Clause 6.2 regarding Level I Mathematics requirements.

Level II

C&ENVENG 2025 Strength of Materials IIA....3

C&ENVENG 2068 Environmental Engineering & Sustainability II....3

C&ENVENG 2069 Geotechnical Engineering IIA....3

C&ENVENG 2070 Engineering Modelling & Analysis IIA....3

C&ENVENG 2071 Water Engineering IIA....3

C&ENVENG 2072 Structural Engineering Design..3

MATHS 2201 Engineering Mathematics I....3

MATHS 2202 Engineering Maths II....3

Students wishing to complete a major in Pure Mathematics or Statistics should consult Maths Course Advisers. 18 units of the 24 Maths units presented over Levels III and IV must be at Level III.

Level III

Note: Level III, IV & V are indicative only - for enrolment information continuing students should see: www.ecms.adelaide.edu.au/enrol/guides

Civil & Structural Engineering courses:

Engineering Hydrology III....3

Environmental Engineering III....3

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 3011 Engineering Management & Planning....3

C&ENVENG 3012 Geotechnical Engineering Design III....3

Level II or III Mathematics course....3

Level IV

Civil & Structural Engineering courses:

Engineering Modelling & Analysis III....3

Level II or III Maths Courses....3

Level III Maths Courses....18

Level V

Civil & Structural Engineering courses:

Civil & Structural core course....3

C&ENVENG 4003A/B Civil & Structural Engineering Research Project ^....6

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

Specialisations....12

^ Students who are not selected for Honours will be required to complete 2 additional final year specialisation courses instead of the Civil & Structural Research Project.

Specialisations

Students should take at least two courses from the one group. The remaining 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 specialisation courses may be acceptable but must be approved by the Head of School. Students may also, with the approval of the Head of School, replace one or more specialisation courses with appropriate courses offered by other schools in the University.

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 & Design....3

C&ENVENG 4069 Advanced Reinforced Concrete3

C&ENVENG 4099 Structural Response to Blast Loading....3

Group II: Geotechnical Engineering

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

Group III: Water Engineering

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

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

C&ENVENG 4098 Water Resources Sustainability & Design....3

Group IV: Management Engineering

C&ENVENG 4085 Traffic Engineering & Design 3

Group V: Environmental Engineering

C&ENVENG 4092 Wastewater Engineering & Design....3

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

6.5.7.8 B.E.(Civil & Structural)/B.Sc.

To qualify for a Bachelor of Science award, students must complete a major pursuant to Bachelor of Science Program Rules.

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:

Level I

C&ENVENG 1008 Engineering Planning & Design IA....3

C&ENVENG 1009 Civil & Environmental Engineering I....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

MATHS 1013 Mathematics IMA*....3

Level I Science courses....6

* See Clause 6.2 regarding Level I Mathematics requirements.

Level II

C&ENVENG 2025 Strength of Materials IIA....3

C&ENVENG 2069 Geotechnical Engineering IIA....3

C&ENVENG 2070 Engineering Modelling & Analysis IIA....3

C&ENVENG 2071 Water Engineering IIA....3

C&ENVENG 2072 Structural Engineering Design IIA....3

MATHS 2201 Engineering Mathematics I....3

MATHS 2202 Engineering Mathematics II....3

Level II Science course....3

Level III

Note: Level III, IV & V are indicative only - for enrolment information continuing students should see: www.ecms.adelaide.edu.au/enrol/guides

Civil & Structural Engineering courses:

Engineering Hydrology....3

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

Level II Science Courses....9

Level IV

Level III Science Courses....24

Level V

Civil & Structural Engineering courses:

Civil & Structural core course....3

C&ENVENG 4003A/B Civil & Structural Engineering Research Project ^....6

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

Specialisations....12

^ Students who are not selected for Honours will be required to complete 2 additional final year specialisation courses instead of the Civil & Structural Research Project.

Specialisations

Students should take at least two courses from the one group. The remaining 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 specialisation courses may be acceptable but must be approved by the Head of School. Students may also, with the approval of the Head of School, replace one or more specialisation courses with appropriate courses offered by other schools in the University.

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 & Design....3

C&ENVENG 4069 Advanced Reinforced Concrete....3

C&ENVENG 4099 Structural Response to Blast Loading....3

Group II: Geotechnical Engineering

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

Group III: Water Engineering

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

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

C&ENVENG 4098 Water Resources Sustainability & Design....3

Group IV: Management Engineering

C&ENVENG 4085 Traffic Engineering & Design 3

Group V: Environmental Engineering

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

C&ENVENG 4092 Wastewater Engineering & Design....3

6.5.7.9 B.E.(Civil & Structural)/ B.E.(Civil & Environmental)

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:

Level I

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

GEOLOGY 1104 Geology for Engineers 1 3

MATHS 1011 Mathematics IA 3

MATHS 1012 Mathematics IB 3

MATHS 1013 Mathematics IMA*

MECHENG 1007 Engineering Mechanics - Dynamics 3

* See Clause 6.2 regarding Level I Mathematics requirements.

Level II

C&ENVENG 2025 Strength of Materials IIA 3

C&ENVENG 2067 Construction Management & Surveying 3

C&ENVENG 2068 Environmental Engineering & Sustainability II 3

C&ENVENG 2069 Geotechnical Engineering IIA ... 3

C&ENVENG 2070 Engineering Modelling & Analysis IIA 3

C&ENVENG 2071 Water Engineering IIA 3

C&ENVENG 2072 Structural Engineering Design 3

MATHS 2201 Engineering Mathematics I 3

Level III

Note: Level III, IV & V are indicative only - for enrolment information continuing students should see: www.ecms.adelaide.edu.au/enrol/guides

Civil & Structural Engineering courses:

Civil & Structural core course 3

Engineering Hydrology 3

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 3009 Environmental Engineering & Design III 3

C&ENVENG 3012 Geotechnical Engineering Design III 3

ENVBIOL 1002 Ecological Issues 3

Level IV

Civil & Structural Engineering courses:

Civil & Structural core course 3

Engineering Management & Planning IIIA 3

Chemical Engineering course:

Transport Processes in the Environment 3

Specialisations 9

ECON 3018 Environmental Economics EIII 3

ENV BIOL 2005 Ecology E 3

Level V

C&ENVENG 4003A Civil & Structural Engineering Research Project ^ 6

or

C&ENVENG 4005A Civil & Environmental Research Project ^ 6

C&ENVENG 4034 Engineering Management IV 3

Specialisations 12

C&ENVENG 4037 Introduction to Environmental Law 3

^ The Civil Engineering Research Project must be in the area of Structural or Geotechnical Engineering while the Environmental Engineering Research Project must be in the area of Water or Environmental Engineering. Students not selected for Honours Civil Engineering Research Project or the Honours Environmental Engineering Research Project will be required to complete 2 additional final year specialisation courses instead of the Research Project.

Specialisations

Students should take at least two courses from the one group. The remaining 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 specialisation courses may be acceptable but must be approved by the Head of School. At least 2 of the specialisation courses must be in the areas of Structural and/or Geotechnical Engineering and at least 2 must be in the areas o Water and/or Environmental Engineering.

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

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 & Design 3

C&ENVENG 4069 Advanced Reinforced Concrete 3

C&ENVENG 4099 Structural Response to Blast Loading 3

Group II: Geotechnical Engineering

C&ENVENG 4079 Deep Foundation Engineering & Design 3

Group III: Water Engineering

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

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

C&ENVENG 4098 Water Resources Sustainability & Design....3

Group IV: Management Engineering

C&ENVENG 4085 Traffic Engineering & Design....3

Group V: Environmental Engineering

C&ENVENG 4092 Wastewater Engineering & Design....3

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

6.5.8 Computational Engineering

6.5.8.1 B.E.(Computational)

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 1008 Electrical & Electronic Engineering IA....3

MATHS 1011 Mathematics IA....3

MATHS 1012 Mathematics IB....3

MATHS 1013 Mathematics IMA*....3

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

MECH ENG 1007 Engineering Mechanics - Dynamics....3

* See Clause 6.2 regarding Level I Mathematics requirements.

Level II

C&ENVENG 2025 Strength of Materials IIA....3

MECH ENG 2002 Stress Analysis & Design....3

MECH ENG 2019 Dynamics & Control I....3

MECH ENG 2020 Materials and Manufacturing....3

MECH ENG 2021 Thermo Fluids I....3

MATHS 2201 Engineering Mathematics I....3

MATHS 2202 Engineering Mathematics II....3

MATHS 2104 Numerical Methods....3

Level III

Note: Level III & IV are indicative only - for enrolment information continuing students should see: www.ecms.adelaide.edu.au/enrol/guides

APP MTH 3002 Fluid Mechanics III....3

APP MTH 3010 Variational Methods & Optimal Control....3

APP MTH 3013 Differential Equations III....3

APP MTH 3014 Optimisation III....3

MECH ENG 3102 Heat Transfer & Thermodynamics....3

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

MECH ENG 3028 Dynamics & Control II....3

MECH ENG 3030 Structural Design & Solid Mechanics....3

Level IV

APP MTH 3000 Computational Mathematics III....3

Computational Project Part 1 & 2 ^....6

MECH ENG 4116 Engineering Management & Quality Systems.....3

Elective courses to the value of 12 units....12

^ Students who are not selected for Honours will be required to complete 2 additional final year specialisation courses instead of the Computational Engineering Honours Project, in consultation with the Head of Mathematical Sciences.

Electives

Applied Mathematics Elective Course....3

APP MTH 3017 Waves....3

APP MTH 4007 Computational Fluid Dynamics (Engineering)....3

Computer Science course:

Distributed High Performance Computing....3

Mechanical Engineering course:

CFD for Engineering Applications....3

Finite Element Analysis of Structures....3

PHYSICS 3000 Computational Physics....3

6.5.9 Computer Systems Engineering

6.5.9.1 B.E.(Computer Systems)

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

COMP SCI 2000 Computer Systems....3

COMP SCI 2004 Data Structures & Algorithms....3

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

ELEC ENG 2008 Electronics II....3

ELEC ENG 2009 Engineering Electromagnetics ... 3

ELEC ENG 2011 Circuit Analysis ... 3

MATHS 2201 Engineering Mathematics I ... 3

MATHS 2202 Engineering Mathematics II ... 3

Level III

Note: Level III & IV are indicative only - for enrolment information continuing students should see: www.ecms.adelaide.edu.au/enrol/guide

COMP SCI 3006 Software Engineering & 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 3019A/B Practical Electrical & Electronic Design III ... 3

ELEC ENG 3020 Embedded Computer Systems .. 3

ELEC ENG 3022 Real Time Systems IV ... 3

Level IV

COMP SCI 3001 Computer Networks & Applications ... 3

Electrical & Electronic Engineering course:

Core & Elective courses ... 15

ELEC ENG 4036A/B Design Project* ... 6

or

ELEC ENG 4039A Honours Project* ... 6

*Students accepted into the Honours Stream will take ELEC ENG 4039A/B Honours Project and other students will take ELEC ENG 4036A/BDesign Project

Electives

APP MTH 3016 Telecommunications Systems Modelling III ... 3

COMP SCI 3004 Operating Systems ... 3

COMP SCI 3005 Computer Architecture ... 3

ELEC ENG 3021 Electric Energy Systems ... 3

ELEC ENG 4049 Analog Microelectronic Systems ... 3

PURE MTH 3018 Coding and Cryptology III ... 3

and other courses as approved by the Head of the School of Electrical and Electronic Engineering

6.5.9.2 B.E.(Computer Systems)/B.A

To satisfy the Arts component of this program, students commencing in 2009 must undertake 30 units of Arts courses, which includes an approved major sequence (24 units). The remaining 6 units can be undertaken at any level. Students should consult the Bachelor of Arts academic program rules for the list of approved major sequences and the specific requirements of each.

To satisfy the BE (Computer Systems) component of this program candidates are required to satisfactorily complete the courses listed below:

Level I

COMP SCI 1008 Computer Science IA ... 3

COMP SCI 1009 Computer Science IB ... 3

ELEC ENG 1009 Electrical & Electronic Engineering IA ... 3

MATHS 1011 Mathematics IA ... 3

MATHS 1012 Mathematics IB ... 3

MATHS 1013 Mathematics IMA* ... 3

PHYSICS 1100 Physics IA ... 3

PHYSICS 1200 Physics IB ... 3

Arts Course ... 3

* See Clause 6.2 regarding Level I Mathematics requirements.

Level II

ELEC ENG 1010 Electrical & Electronic Engineering IB ... 3

ELEC ENG 2007 Signals & Systems II ... 3

ELEC ENG 2011 Circuit Analysis ... 3

ELEC ENG 2009 Engineering Electromagnetics ... 3

MATHS 2201 Engineering Mathematics I ... 3

MATHS 2202 Engineering Mathematics II ... 3

Arts Course ... 6

Level III

Note: Level III, IV & V are indicative only - for enrolment information continuing students should see: www.ecms.adelaide.edu.au/enrol/guides

COMP SCI 2000 Computer Systems ... 3

COMP SCI 2004 Data Structures & Algorithms 3

ELEC ENG 2008 Electronics II ... 3

ELEC ENG 3016 Control III ... 3

ELEC ENG 3017 Digital Electronics ... 3

Arts Courses ... 9

Level IV

COMP SCI 3001 Computer Networks & Applications ... 3

COMP SCI 3006 Software Engineering & Project . 3

Electrical & Electronic Engineering course:

Signal Processing III ... 3

Complex Systems ... 3

ELEC ENG 3018 RF Engineering III ... 3

Arts Course ... 6

ELEC ENG 3019A/B Practical Electrical & Electronic Design III ... 3

Level V

Electrical & Electronic Engineering courses:

Electrical & Electronic Engineering core course ... 6

Systems Engineering ... 3

ELEC ENG 4036A/B Design Project Part I# & ... 6

or

ELEC ENG 4039A/B Honours Project* ... 6

ELEC ENG 3022 Real Time Systems IV 3

Advanced Level Arts Courses 6

* Students accepted into the Honours Stream will take ELEC ENG 4039A/B Honours Project and other students will take ELEC ENG 4036A/B Design Project

6.5.9.3 B.E.(Computer Systems)/B.Ec. program

To qualify for both the award of the degree of B.E.(Computer Systems) and the degree of B.Ec., candidates are required to complete satisfactorily courses listed below:

Level I

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

MATHS 1011 Mathematics IA 3

MATHS 1012 Mathematics IB 3

MATHS 1013 Mathematics IMA* 3

PHYSICS 1100 Physics IA 3

PHYSICS 1200 Physics IB 3

* See Clause 6.2 regarding Level I Mathematics requirements.

Level II

ECON 1000 Principles of Macroeconomics I 3

ECON 2504 Intermediate Econometrics II 3

ELEC ENG 1010 Electrical & Electronic Engineering IB 3

ELEC ENG 2007 Signals and Systems II 3

ELEC ENG 2009 Engineering Electromagnetics ... 3

ELEC ENG 2011 Circuit Analysis 3

MATHS 2201 Engineering Mathematics I 3

MATHS 2202 Engineering Mathematics II 3

Level III

Note: Level III, IV & V are indicative only - for enrolment information continuing students should see: www.ecms.adelaide.edu.au/enrol/guides

COMP SCI 2004 Data Structures & Algorithms 3

ECON 2506 Intermediate Microeconomics 3

Electrical & Electronic Engineering courses:

Digital Systems 3

ELEC ENG 2008 Electronics II 3

ELEC ENG 3016 Control III 3

COMP SCI 2000 Computer Systems 3

ECON 2507 Intermediate Macroeconomics 3

Level II Economics Course 3

Level IV

COMP SCI 3001 Computer Networks & Applications 3

Electrical & Electronic Engineering course:

Signal Processing III 3

ELEC ENG 3018 RF Engineering III 3

Level III Economics Course 6

COMP SCI 3006 Software Engineering & Project . 3

Electrical & Electronic Engineering course:

Complex Systems 3

Practical Electrical & Electronic Design III 3

Level V

ELEC ENG 3022 Real Time Systems IV 3

ELEC ENG 4036A/B Design Project* 6

or

ELEC ENG 4039A/B Honours Project* 6

ELEC ENG 4050 Systems Engineering 3

Level III Economics Courses 12

\# Students accepted into the Honours Stream will take 4039A/B Honours Project and other students will take 4036A/B Design Project

6.5.9.4 B.E.(Computer Systems)/B.Fin.

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:

Level I

COMP SCI 1008 Computer Science IA 3

COMP SCI 1009 Computer Science IB 3

ECON 1004 Principles of Microeconomics 3

ELEC ENG 1009 Electrical & Electronic Engineering IA 3

MATHS 1011 Mathematics IA 3

MATHS 1012 Mathematics IB 3

MATHS 1013 Mathematics IMA* 3

PHYSICS 1100 Physics IA 3

PHYSICS 1200 Physics IB 3

* See Clause 6.2 regarding Level I Mathematics requirements.

Level II

ECON 1000 Principles of Macroeconomics I 3

ECON 1009 International Financial Institutions & Markets I 3

ELEC ENG 1010 Electrical & Electronic IB 3

ELEC ENG 2007 Signals & Systems 3

ELEC ENG 2009 Engineering Electromagnetics ... 3

ELEC ENG 2011 Circuit Analysis 3

MATHS 2201 Engineering Mathematics I 3

MATHS 2202 Engineering Mathematics II 3

Level III

Note: Level III, IV & V are indicative only - for enrolment information continuing students should see: www.ecms.adelaide.edu.au/enrol/guides

ACCTING 1002 Accounting for Decision Makers I...3

COMP SCI 2000 Computer Systems 3

COMP SCI 2004 Data Structures & Algorithms 3

ECON 2504 Intermediate Econometrics II.....3

ECON 2508 Financial Economics II.....3

Electrical & Electronic Engineering courses:

Digital Systems.....3

ELEC ENG 2008 Electronics II.....3

ELEC ENG 3016 Control III.....3

Level IV

COMP SCI 3001 Computer Networks & Applications 3

COMP SCI 3006 Software Engineering & Project .3

CORPFIN 2500 Business Finance II 3

Electrical & Electronic Engineering courses:

Signal Processing III 3

Complex Systems.....3

Practical Electrical & Electronic Design III.....3

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

Level III Economics course.....3

Level V

Electrical & Electronic Engineering courses:

Systems Engineering.....3

ELEC ENG 3022 Real Time Systems IV 3

ELEC ENG 4036A/B Design Project* 6

or

ELEC ENG 4039A/B Honours Project* 6

Level III Finance Courses.....12

Students accepted into the Honours Stream will take ELEC ENG 4039A/B Honours Project and other students will take ELEC ENG 4036A/B Design Project

6.5.9.5 B.E.(Computer Systems)/LLB.

Level I

ELEC ENG 1009 Electrical & Electronic Engineering IA..... 3

ELEC ENG 1010 Electrical & Electronic Engineering 1B 3

LAW 1501 Foundations of Law 3

LAW 1502 Law of Torts 1 3

LAW 1504 Principles of Public Law.....3

LAW 1505 Law of Torts 2 3

MATHS 1011 Mathematics IA 3

MATHS 1012 Mathematics IB 3

MATHS 1013 Mathematics IMA*.....3

* See Clause 6.2 regarding Level I Mathematics requirements.

Level II

COMP SCI 1008 Computer Science 1A 3

COMP SCI 1009 Computer Science 1B 3

PHYSICS 1100 Physics 1A 3

PHYSICS 1200 Physics 1B 3

Law course to be advised by the Law School....12

Level III

Note: Level III, IV & V are indicative only - for enrolment information continuing students should see: www.ecms.adelaide.edu.au/enrol/guides

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

ELEC ENG 2008 Electronics II.....3

ELEC ENG 2009 Engineering Electromagnetics...3

ELEC ENG 2011 Circuit Analysis.....3

MATHS 2201 Engineering Mathematics 1.....3

MATHS 2202 Engineering Mathematics II.....3

Law courses to be advised by Law School..... 6

Level IV

COMP SCI 2000 Computer Systems 3

COMP SCI 2004 Data Structures & Algorithms 3

Electrical & Electronic Engineering course:

Digital Systems.....3

ELEC ENG 3016 Control III.....3

Law courses to be advised by Law School 12

Level V

COMP SCI 3001 Computer Networks & Applications 3

COMP SCI 3006 Software Engineering & Project .3

Electrical & Electronic Engineering courses:

Complex Systems.....3

Practical Electrical & Electronic Design III.....3

Signal Processing III 3

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

Law courses to be advised by Law School 6

Level VI

ELEC ENG 3022 Real Time Systems IV 3

ELEC ENG 4036A/B Design Project* 6

or

ELEC ENG 4039A/B Honours Project* 6

ELEC ENG 4050 Systems Engineering 3

Law courses to be advised by Law School 12

Plus 24 additional Units as required by Law School

* Students accepted into the Honours Stream will take ELEC ENG 4039A/B Honours Project Part 1 & 2 and other students will take .ELEC ENG 4036A/B Design Project Part 1 & 2.

6.5.9.6 B.E.(Computer Systems)/B.Ma.&Comp.Sc.

To qualify for both the award of the degree of B.E.(Computer Systems) and the degree of B.Ma.&Comp.Sc., candidates are required to complete satisfactorily:

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 1B 3
MATHS 1011 Mathematics IA 3
MATHS 1012 Mathematics IB 3
MATHS 1013 Mathematics IMA* 3
PHYSICS 1100 Physics IA 3
PHYSICS 1200 Physics IB 3

* See Clause 6.2 regarding Level I Mathematics requirements.

Level II

COMP SCI 2000 Computer Systems 3
COMP SCI 2004 Data Structures & Algorithms 3
ELEC ENG 2007 Signals & Systems II 3
ELEC ENG 2008 Electronics II 3
ELEC ENG 2009 Engineering Electromagnetics ... 3
ELEC ENG 2011 Circuit Analysis 3
MATHS 2201 Engineering Mathematics I 3
MATHS 2202 Engineering Mathematics II 3

Level III

Note: Level III, IV & V are indicative only - for enrolment information continuing students should see: www.ecms.adelaide.edu.au/enrol/guides

COMP SCI 3006 Software Engineering & Project .. 3
ELEC ENG 3015 Communications, Signals & Systems 3
ELEC ENG 3017 Digital Electronics 3
ELEC ENG 3018 RF Engineering III 3
ELEC ENG 3019A/B Practical Electrical & Electronic Design III 3
ELEC ENG 3020 Embedded Computer Systems... 3
Levels II or III Maths & Computer Science courses* 6

*24 units of Maths & Computer Science courses are required of which 6 may be presented at Level II. Students should consult Maths course advisers if they wish to undertake Level III work or a major in Pure Mathematics or Statistics. Students who wish to major in Computer Science require an additional Level II computer science course and 12 of the 18 units at Level III must contain Computer Science coursework.

Level IV

ELEC ENG 3016 Control III 3
ELEC ENG 3022 Real Time Systems IV 3
Level III Maths or Computer Science Courses ... 18

Level V

COMP SCI 3001 Computer Networks & Applications 3
Electrical & Electronic Engineering courses:
Electrical & Electronic core or elective courses ... 6
Financial Management 3
Management & Professional Practice 3
Systems Engineering 3
ELEC ENG 4036A/B Design Project* 6
or
ELEC ENG 4039A/B Honours Project* 6

*Students accepted into the Honours Stream will take ELEC ENG 4039A/B Honours Project and other students will take ELEC ENG 4036A/B Design Project

Electives

APP MTH 3016 Telecommunications Systems Modelling III 3
COMP SCI 3004 Operating Systems 3
COMP SCI 3005 Computer Architecture 3
ELEC ENG 4049 Analog Microelectronic Systems 3
ELEC ENG 3021 Electric Energy Systems 3
PURE MTH 3018 Coding and Cryptology III 3
and other courses as approved by the Head of the School of Electrical and Electronic Engineering.

6.5.10 Electrical & Electronic Engineering

6.5.10.1 B.E.(Electrical & Electronic)

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

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

ELEC ENG 2011 Circuit Analysis.....3

MATHS 2201 Engineering Mathematics I.....3

MATHS 2202 Engineering Mathematics II.....3

Level III

Note: Level III, IV & V are indicative only - for enrolment information continuing students should see: www.ecms.adelaide.edu.au/enrol/guides

ELEC ENG 3015 Communications, Signals & Systems 3

ELEC ENG 3016 Control III.....3

ELEC ENG 3017 Digital Electronics 3

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

ELEC ENG 3019A/B Practical Electrical & Electronic Design III.....3

ELEC ENG 3020 Embedded Computer Systems .3

ELEC ENG 3021 Electric Energy Systems 3

ELEC ENG 3024 Project Management for Electrical Engineering 3

Level IV

Electrical & Electronic Engineering courses:

Digital Microelectronics.3

Financial Management 3

Management & Professional Practice 3

Power Electronics & Drive Systems 3

RF Engineering IV.....3

Telecommunications IV.....3

ELEC ENG 4036A/B Design Project* 6

or

ELEC ENG 4039A/B Honours Project *.....6

*Students accepted into the Honours Stream will take ELEC ENG 4039A/B Honours Project and other students will take ELEC ENG 4036A/B Design Project

6.5.10.2 B.E.(Electrical & Electronic)/B.A.

To satisfy the Arts component of this program, students commencing in 2009 must undertake 30 units of Arts courses, which includes an approved major sequence (24 units). The remaining 6 units can be undertaken at any level. Students should consult the Bachelor of Arts academic program rules for the list of approved major sequences and the specific requirements of each.

To satisfy the BE (Electrical & Electronic) component of this program candidates are required to satisfactorily complete the courses listed below:

Level I

COMP SCI 1008 Computer Science IA.....3

COMP SCI 1009 Computer Science IB.....3

ELEC ENG 1009 Electrical & Electronic Engineering IA..... 3

MATHS 1011 Mathematics IA.....3

MATHS 1012 Mathematics IB.....3

MATHS 1013 Mathematics IMA*.....3

PHYSICS 1100 Physics IA.....3

PHYSICS 1200 Physics IB.....3

Level I Arts course.....3

* See Clause 6.2 regarding Level I Mathematics requirements.

Level II

Arts Courses 6

ELEC ENG 1010 Electrical & Electronic Engineering IB..... 3

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

ELEC ENG 2009 Engineering Electromagnetics...3

ELEC ENG 2011 Circuit Analysis.....3

MATHS 2201 Engineering Mathematics I.....3

MATHS 2202 Engineering Mathematics II.....3

Level III

Note: Level III, IV & V are indicative only - for enrolment information continuing students should see: www.ecms.adelaide.edu.au/enrol/guides

Arts Course.....9

COMP SCI 2000 Computer Systems 3

COMP SCI 2004 Data Structures & Algorithms 3

Electrical & Electronic Engineering courses:

Digital Systems.....3

ELEC ENG 2008 Electronics II.....3

ELEC ENG 3016 Control III.....3

Level IV

Advanced Level Arts Courses 6

Electrical & Electronic Engineering courses:

Practical Electrical & Electronic Design III.....3

Project Management for Electrical Engineers 3

Signal Processing III 3

Telecommunications III.....3

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

ELEC ENG 3023 Electric Energy Systems M.....3

Level V

Advanced Level Arts Courses 9

Electrical & Electronic Engineering courses:

ELEC ENG 4036A/B Design Project* 6

or

ELEC ENG 4039A/B Honours Project*.....6

ELEC ENG 4040 Management & Professional Practice for Engineers 3

Elective 6

*Students accepted into the Honours Stream will take ELEC ENG 4039A/B Honours Project and other students will take ELEC ENG 4039A/B Design Project

Electives

COMP SCI 3001 Computer Networks & Applications 3

COMP SCI 3004 Operating Systems 3

COMP SCI 3005 Computer Architecture 3

Electrical & Electronic Engineering courses:

Advanced Control 3

Advanced Signal Processing 3

Image Processing 3

Power Quality & Condition Monitoring 3

Power Systems 3

ELEC ENG 3022 Real Time Systems IV 3

ELEC ENG 4035 Communications IV 3

ELEC ENG 4037 Digital Microelectronics 3

ELEC ENG 4042 Power Electronics & Drive Systems 3

ELEC ENG 4044 RF Engineering IV 3

ELEC ENG 4046 Telecommunications IV 3

PURE MTH 3018 Coding & Cryptology III 3

6.5.10.3 B.E. (Electrical & Electronic)/B.Ec.

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:

Level I

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

MATHS 1011 Mathematics IA 3

MATHS 1012 Mathematics IB 3

MATHS 1013 Mathematics IMA* 3

PHYSICS 1100 Physics IA 3

PHYSICS 1200 Physics IB 3

* See Clause 6.2 regarding Level I Mathematics requirements.

Level II

ECON 1000 Principles of Macroeconomics I 3

ECON 2504 Intermediate Econometrics II 3

ELEC ENG 1010 Electrical & Electronic Engineering IB 3

ELEC ENG 2007 Signals & Systems 3

ELEC ENG 2009 Engineering Electromagnetics ... 3

ELEC ENG 2011 Circuit Analysis 3

MATHS 2201 Engineering Mathematics I 3

MATHS 2202 Engineering Mathematics 2 3

Level III

Note: Level III, IV & V are indicative only - for enrolment information continuing students should see: www.ecms.adelaide.edu.au/enrol/guides

COMP SCI 2000 Computer Systems 3

ECON 2507 Intermediate Macroeconomics II 3

ECON 2506 Intermediate Microeconomics II 3

ELEC ENG 2009 Engineering Electromagnetics ... 3

ELEC ENG 3015 Communication Signals & Systems .....

ELEC ENG 3016 Control III 3

ELEC ENG 3017 Digital Electronics 3

ELEC ENG 3020 Embedded Computer Systems .. 3

Level IV

COMMGMT 2500 Organisational Behaviour II 3

ELEC ENG 3018 RF Engineering III 3

ELEC ENG 3019A/B Practical Electrical & Electronic Design III 3

ELEC ENG 3021 Electric Energy Systems 3

ELEC ENG 3024 Project Management for Electrical Engineers 3

Plus at least 9 units of Level III Economics Courses* 9

* Must include an Economic History course.

Level V

ELEC ENG 4036A/B Design Project* 6

or

ELEC ENG 4039A/B Honours Project* 6

ELEC ENG 4037 Digital Microelectronics 2

ELEC ENG 4042 Power Electronics & Drive Systems 2

ELEC ENG 4044 RF Engineering IV 2

ELEC ENG 4046 Telecommunications IV 2

STATS 4001 Reliability and Quality Control 2

At least 8 units of Level III Economics Courses ... 8

\# Students accepted into the Honours Stream will take ELEC ENG 4039A/B Honours Project and other students will take ELEC ENG 4036A/BDesign Project

6.5.10.4 B.E.(Electrical & Electronic)/B.Fin.

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:

Level I

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

MATHS 1011 Mathematics IA 3

MATHS 1012 Mathematics IB 3

MATHS 1013 Mathematics IMA* 3

PHYSICS 1100 Physics IA 3

PHYSICS 1200 Physics IB 3

* See Clause 6.2 regarding Level I Mathematics requirements.

Level II

ECON 1009 International Finance Institutions & Markets I 3

ELEC ENG 1010 Electrical & Electronic Engineering IB 3

ELEC ENG 2007 Signals & Systems 3

ELEC ENG 2009 Engineering Electromagnetics ... 3

ELEC ENG 2011 Circuit Analysis 3

ECON 1000 Principles of Macroeconomics I 3

MATHS 2201 Engineering Mathematics I 3

MATHS 2202 Engineering Mathematics 2 3

Level III

Note: Level III, IV & V are indicative only - for enrolment information continuing students should see: www.ecms.adelaide.edu.au/enrol/guides

ACCTING 1002 Accounting for Decision Makers I 3

COMP SCI 2000 Computer Systems 3

COMP SCI 2004 Data Structures & Algorithms 3

CORPFIN 2500 Business Finance II 3

ECON 2504 Intermed. Econom II 3

ELEC ENG 3015 Communications, Signals and Systems 3

ELEC ENG 3017 Digital Electronics 3

ELEC ENG 3020 Embedded Computer Systems.. 3

Level IV

ECON 2508 Financial Economics II 3

ELEC ENG 3016 Control III 3

ELEC ENG 3018 RF Engineering III 3

ELEC ENG 3019A/B Practical Electrical & Electronic Design III 3

ELEC ENG 3021 Electric Energy Systems 3

ELEC ENG 3024 Project Management for Electrical Engineering 3

At least 9 units of Level III Finance courses including:

CORPFIN 3009 Portfolio Theory and Management II 3

and either

APP MTH 3012 Financial Modelling III 3

or

CORPFIN 3013 Options, Futures and Risk Management III 3

Level V

ELEC ENG 4036A/B Design Project ^ 6

or

ELEC ENG 4039A/B Honours Project ^ 6

ELEC ENG 4037 Digital Microelectronics 3

ELEC ENG 4042 Power Electronics & Drive Systems 3

ELEC ENG 4044 RF Engineering IV 3

ELEC ENG 4046 Telecommunications IV 3

or

At least 9 units of Level III Finance Courses 9

^ Students accepted into the Honours Stream will take ELEC ENG 4039A/B . Honours Project and other students will take ELEC ENG 4036A/B Design Project.

6.5.10.5 B.E.(Electrical & Electronic)/LLB

Level I

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

MATHS 1013 Mathematics IMA* 3

LAW 1501 Foundations of Law 3

LAW 1502 Law of Torts I 3

LAW 1504 Principles of Public Law 3

LAW 1505 Law of Torts 2 3

* See Clause 6.2 regarding Level I Mathematics requirements.

Level II

COMP SCI 1008 Computer Science IA 3

COMP SCI 1009 Computer Science IB 3

PHYSICS 1100 Physics IA 3

PHYSICS 1200 Physics IB 3

Law courses to be advised by Law School 12

Level III

Note: Level III, IV & V are indicative only - for enrolment information continuing students should see: www.ecms.adelaide.edu.au/enrol/guides

ELEC ENG 2007 Signals & Systems 3

ELEC ENG 2008 Electronics II 3

ELEC ENG 2009 Engineering Electromagnetics ... 3

ELEC ENG 2011 Circuit Analysis 3

MATHS 2201 Engineering Mathematics 1 3

MATHS 2202 Engineering Mathematics II 3

Law courses to be advised by Law School 6

Level IV

COMP SCI 2000 Computer Systems 3

COMP SCI 2004 Data Structures & Algorithms 3

Electrical & Electronic Engineeering courses:

Digital Systems 3

ELEC ENG 3016 Control III 3

Law courses to be advised by Law School 12

Level V

Electrical & Electronic Engineeering courses:

Practical Electrical & Electronic Design III.....3

Project Management for Electrical Engineers 3

Signal Processing III 3

Telecommunications III.....3

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

ELEC ENG 3023 Electric Energy Systems M.....3

Law courses to be advised by Law School 6

Level VI

Electrical & Electronic Engineering courses:

ELEC ENG 4036A/B Design Project ^ 6

or

ELEC ENG 4039A Honours Project ^ 6

Law courses to be advised by Law School 12

Plus 24 units of Law Courses to be specified by the Law School

^ Students accepted into the Honours Stream will take ELEC ENG 4039A/B . Honours Project and other students will take ELEC ENG 4036A/B Design Project.

6.5.10.6 B.E.(Electrical & Electronic)/B.Ma.&Comp.Sc.

To qualify for both the award of the degree of B.E.(Electrical & Electronic) and the degree of B.Ma.Comp.Sc., candidates are required to complete satisfactorily:

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

MATHS 1013 Mathematics IMA*.....3

PHYSICS 1100 Physics IA.....3

PHYSICS 1200 Physics IB.....3

* See Clause 6.2 regarding Level I Mathematics requirements.

Level II

COMP SCI 2000 Computer Systems 3

COMP SCI 2004 Data Structures & Algorithms 3

ELEC ENG 2011 Circuit Analysis.....3

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

ELEC ENG 2008 Electronics II.....3

ELEC ENG 2009 Engineering Electromagnetics...3

MATHS 2201 Engineering Mathematics I.....3

MATHS 2202 Engineering Mathematics II.....3

Level III

Note: Level III, IV & V are indicative only - for enrolment information continuing students should see: www.ecms.adelaide.edu.au/enrol/guides

Students wishing to undertake coursework in Pure Mathematics or Statisticsshould consult Maths Course Advisers about required second year knowledge.

Electrical & Electronic Engineeering courses:

Digital Systems.....3

Practical Electrical & Electronic Design III.....3

Project Management for Electrical Engineers 3

Signal Processing III 3

Telecommunications III.....3

ELEC ENG 3016 Control III 3

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

ELEC ENG 3023 Electric Energy Systems M.....3

Level IV

Level II/ III Maths Courses* 12

Level III Maths Courses.....12

* 24 new Maths and Computer Science coursework required of which 18 units must be at Level III. Students should consult a Faculty Program Adviser if they wish to major in Computer Science.

Level V

Electrical & Electronic Engineeering courses:

Financial Management for Engineers 3

Management & Professional Practice for Engineers 3

ELEC ENG 4036A/B Design Project ^ 6

or

ELEC ENG 4039A/B Honours Project ^ 6

Electives.....12

^ Students accepted into the Honours Stream will take ELEC ENG 4039A/B . Honours Project and other students will take ELEC ENG 4036A/B Design Project.

Electives .....

COMP SCI 3001 Computer Networks & Applications 3

COMP SCI 3004 Operating Systems 3

COMP SCI 3005 Computer Architecture 3

Electrical & Electronic Engineering courses:

Advanced Control 3

Advanced Signal Processing 3

Communications IV 3

Digital Microelectronics.....3

Image Processing 3

Power Electronics & Drive Systems 3

Power Quality & Condition Monitoring.....3

Power Systems.....3

RF Engineering IV 3

Systems Engineering....3
Telecommunications IV....3
PURE MTH 3018 Coding & Cryptology III....3

6.5.10.7 B.E.(Electrical & Electronic)/B.Sc.

To qualify for the combined award of B.E.(Electrical & Electronic) and B.Sc. candidates are required to complete satisfactorily courses as indicated below.

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
MATHS 1013 Mathematics IMA*....3
PHYSICS 1100 Physics IA....3
PHYSICS 1200 Physics IB....3

* See Clause 6.2 regarding Level I Mathematics requirements.

Level II

COMP SCI 2000 Computer Systems....3
COMP SCI 2004 Data Structures & Algorithms....3
ELEC ENG 2007 Signals & Systems II....3
ELEC ENG 2008 Electronics II....3
ELEC ENG 2009 Engineering Electromagnetics....3
ELEC ENG 2011 Circuit Analysis....3
MATHS 2201 Engineering Mathematics I....3
MATHS 2202 Engineering Mathematics II....3

Level III

Note: Level III, IV & V are indicative only - for enrolment information continuing students should see: www.ecms.adelaide.edu.au/enrol/guides

Electrical & Electronic Engineering courses:

Signal Processing III....3
ELEC ENG 3016 Control III....3
ELEC ENG 3018 RF Engineering III....3
Project Management for Electrical Engineers....3
PHYSICS 2510 Physics IIA....3
PHYSICS 2520 Physics IIB....3
PHYSICS 2532 Classical Physics II....3
PHYSICS 2534 Electromagnetism II....3

Level IV

Electrical & Electronic Engineering courses:

Digital Systems....3
Practical Electrical & Electronic Design III....3
Telecommunications III....3
ELEC ENG 3021 Electrical Energy Systems....3
Level III Physics Courses....12

Level V

Electrical & Electronic Engineering courses:

Management & Professional Practice for Engineers....3
ELEC ENG 4036A/B Design Project ^....6

or

ELEC ENG 4039A Honours Project ^....6
ELEC ENG 4038 Financial Management for Engineers....3
Level III Physics courses....6
Level III Science elective....6

^ Students accepted into the Honours Stream will take ELEC ENG 4039A/B . Honours Project and other students will take ELEC ENG 4036A/B Design Project.

Electives

COMP SCI 3001 Computer Networks & Applications....3
COMP SCI 3004 Operating Systems....3
COMP SCI 3005 Computer Architecture....3

Electrical & Electronic Engineering courses:

Advanced Control....3
Advanced Signal Processing....3
Communications IV....3
Digital Microelectronics....3
Image Processing....3
Power Electronics & Drive Systems....3
Power Quality & Condition Monitoring....3
Power Systems....3
RF Engineering IV....3
Systems Engineering....3
Telecommunications III....3
ELEC ENG 3022 Real Time Systems IV....3
PURE MTH 3018 Coding & Cryptology III....3

6.5.11 Mechanical Engineering

6.5.11.1 B.E.(Mechanical)

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 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 & Communication....3
MECH ENG 1007 Engineering Mechanics - Dynamics....3

MECH ENG 1100 Intro to Mechanical Engineering 3

Level II

MECH ENG 2002 Stress Analysis & Design 3

MECH ENG 2019 Dynamics & Control I 3

MECH ENG 2020 Materials & Manufacturing 3

MECH ENG 2021 Thermo-Fluids I 3

MECH ENG 2100 Design Practice 3

MECH ENG 2101 Mechatronics IM (includes Workshop Practice) 3

MATHS 2201 Engineering Mathematics I 3

MATHS 2202 Engineering Mathematics II 3

Level III

Note: Level III, IV & V are indicative only - for enrolment information continuing students should see: www.ecms.adelaide.edu.au/enrol/guides

APP MTH 3017 Waves III 3

MECH ENG 3027 Engineering Systems Design & Communication 3

MECH ENG 3028 Dynamics & Control II 3

MECH ENG 3030 Structural Design & Solid Mechanics 3

MECH ENG 3101 Applied Aerodynamics 3

MECH ENG 3102 Heat Transfer & Thermodynamics 3

MECH ENG 3103 Manufacturing Engineering 3

MECH ENG 3105 Sustainability & the Environment 3

Level IV

MECH ENG 4132A/B Mechanical Design Project Level IV ^ 6

or

MECH ENG 4133A/B Mechanical Honours Project Level IV ^ 6

or

MECH ENG 4116 Engineering Management & Quality Systems…… 3

Elective courses to the value of at least 15 units 15

^ Students accepted into the Honours Stream will take MECH ENG 4133A/B Mechanical Engineering Honours Project and other students will take MECH ENG 4133A/B Mechanical Engineering Design Project

Electives

APP MTH 4004 System Modelling & Simulation* .. 3

APP MTH 4007 Computational Fluid Dynamics (Engineering)* 3

MECH ENG 4101 Biomechanical Engineering 3

MECH ENG 4102 Advanced PID Control 3

MECH ENG 4103 Advanced Computer Aided Engineering 3

MECH ENG 4104 Advanced Topics in Fluid Mechanics 3

MECH ENG 4105 Advanced Vibrations 3

MECH ENG 4107 Airconditioning 3

MECH ENG 4109 Automotive Combustion, Power Train & NVH+ 3

MECH ENG 4110 Automotive Vehicle Dynamics & Safety 3

MECH ENG 4111 CFD for Engineering Applications 3

MECH ENG 4112 Combustion Technology & Emission Control 3

MECH ENG 4113 Computational Acoustics 3

MECH ENG 4114 Corrosion: Principles & Prevention 3

MECH ENG 4115 Engineering Acoustics 3

MECH ENG 4117 Finance for Engineers 3

MECH ENG 4118 Finite Element Analysis of Structures 3

MECH ENG 4119 Fire Engineering 3

MECH ENG 4120 Fracture Mechanics 3

MECH ENG 4121 Materials Selection & Failure Analysis+ 3

MECH ENG 4122 Mechanical Signature Analysis 3

MECH ENG 4124 Robotics M 3

MECH ENG 4125 Stresses in Plates & Shells 3

MECH ENG 4126 Topics in Welded Structures 3

MECH ENG 4127 Wind Engineering 3

* Not offered by the School of Mechanical Engineering

+ Not offered in 2009

6.5.11.2 B.E.(Mechanical)/B.A.

To satisfy the Arts component of this program, students commencing in 2009 must undertake 30 units of Arts courses, which includes an approved major sequence (24 units). The remaining 6 units can be undertaken at any level. Students should consult the B.A. academic program rules for the list of approved major sequences and specific requirements of each.

To satisfy the BE (Mechanical) component of this program candidates are required to satisfactorily complete the courses listed below:

Level I

Arts Course 6

C&ENVENG 1010 Engineering Mechanics - Statics 3

MATHS 1013 Mathematics IMA* 3

MATHS 1011 Mathematics IA 3

MATHS 1012 Mathematics IB 3

MECH ENG 1006 Design Graphics & Communication M 3

MECH ENG 1007 Engineering Mechanics - Dynamics 3

MECH ENG 1100 Introduction to Mechanical Engineering 3

* See Clause 6.2 regarding Level I Mathematics requirements.

Level II

CHEM ENG 1009 Materials I 3

ELEC ENG 1009 Electrical & Electronic Engineering IA 3

MATHS 2201 Engineering Mathematics I 3

MATHS 2202 Engineering Mathematics II 3

MECH ENG 2002 Stress Analysis & Design 3

MECH ENG 2100 Design Practice 3

Arts Course 6

Level III

Note: Level III, IV & V are indicative only - for enrolment information continuing students should see: www.ecms.adelaide.edu.au/enrol/guides

Arts Courses 12

MECH ENG 2019 Dynamics & Control I 3

MECH ENG 2020 Materials & Manufacturing 3

MECH ENG 2021 Thermo-Fluids I 3

MECH ENG 2102 Mechatronics IM (includes Workshop Practice) 3

Level IV

APP MTH 3017 Waves III 3

ELEC ENG 3027 Engineering Systems Design & Communication 3

MECH ENG 3028 Dynamics & Control II 3

MECH ENG 3030 Structural Design & Solid Mechanics 3

MECH ENG 3101 Engineering Aerodynamics 3

MECH ENG 3102 Heat Transfer & Thermodynamics 3

MECH ENG 3103 Manufacturing Engineering 3

MECH ENG 3105 Sustainability & the Environment 3

Level V

Arts Courses 6

MECH ENG 4116 Engineering Management & Quality Systems 3

MECH ENG 4132A/B Mechanical Design Project Level IV ^ 6

or

MECH ENG 4133A/B Mechanical Honours Project Level IV ^ 6

Mechanical Engineering Electives 9

^ Students accepted into the Honours Stream will take MECH ENG 4133A/B Mechanical Engineering Honours Project and other students will take MECH ENG 4133A/B Mechanical Engineering Design Project

Electives

MECH ENG 4101 Biomechanical Engineering 3

MECH ENG 4102 Advanced PID Control 3

MECH ENG 4103 Advanced Computer Aided Engineering 3

MECH ENG 4104 Advanced Topics in Fluid Mechanics 3

MECH ENG 4105 Advanced Vibrations 3

MECH ENG 4107 Airconditioning 3

MECH ENG 4109 Automotive Combustion, Power Train & NVH+ 3

MECH ENG 4110 Automotive Vehicle Dynamics & Safety 3

MECH ENG 4111 CFD for Engineering Applications 3

MECH ENG 4112 Combustion Technology & Emission Control 3

MECH ENG 4113 Computational Acoustics 3

MECH ENG 4114 Corrosion: Principles & Prevention 3

MECH ENG 4115 Engineering Acoustics .....

MECH ENG 4117 Finance for Engineers 3

MECH ENG 4118 Finite Element Analysis of Structures 3

MECH ENG 4119 Fire Engineering 3

MECH ENG 4120 Fracture Mechanics 3

MECH ENG 4121 Materials Selection & Failure Analysis+ 3

MECH ENG 4122 Mechanical Signature Analysis 3

MECH ENG 4124 Robotics M 3

MECH ENG 4125 Stresses in Plates & Shells 3

MECH ENG 4126 Topics in Welded Structures 3

MECH ENG 4127 Wind Engineering 3

+ Not offered in 2009

6.5.11.3 B.E.(Mechanical)/B.Ec.

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:

Level I

C&ENVENG 1010 Engineering Mechanics - Statics 3

CHEM ENG 1009 Materials I 3

ECON 1004 Principles of Microeconomics I 3

MATHS 1011 Mathematics IA 3

MATHS 1012 Mathematics IB 3

MATHS 1013 Mathematics IMA* 3

MECH ENG 1006 Design Graphics & Communication 3

MECH ENG 1007 Engineering Mechanics - Dynamics 3

MECH ENG 1100 Intro to Mechanical Engineering 3

* See Clause 6.2 regarding Level I Mathematics requirements.

Level II

ECON 1000 Principles of Macroeconomics I 3

ELEC ENG 1009 Electrical & Electronic Engineering 1A 3

MATHS 2201 Engineering Mathematics I 3

MATHS 2202 Engineering Mathematics II 3

MECH ENG 2002 Stress Analysis & Design 3

MECH ENG 2019 Dynamics & Control I 3

MECH ENG 2100 Design Practice 3

MECH ENG 2101 Mechatronics IM * 3

* Includes Workshop Practice

Level III

Note: Level III, IV & V are indicative only - for enrolment information continuing students should see: www.ecms.adelaide.edu.au/enrol/guides

ECON 2507 Intermediate Macroeconomics II 3

ECON 2506 Intermediate Microeconomics II 3

MECH ENG 2020 Materials & Manufacturing 3

MECH ENG 2021 Thermo-Fluids I 3

MECH ENG 3027 Engineering Systems Design & Communication 3

MECH ENG 3030 Structural Design & Solid Mechanics 3

MECH ENG 3101 Applied Aerodynamics 3

MECH ENG 3103 Manufacturing Engineering 3

Level IV

COMMMGT 2500 Organisational Behaviour II 3

ECON 2504 Intermediate Econometrics II 3

Level III Economics courses 18

Level V

APP MTH 3017 Waves III 3

MECH ENG 3028 Dynamics & Control 2 3

MECH ENG 3102 Heat Transfer & Thermodynamics 3

MECH ENG 3105 Sustainability & the Environment 3

MECH ENG 4116 Engineering Management & Quality Systems 3

MECH ENG 4132A/B Mechanical Design Project Level IV ^ 6

or

MECH ENG 4133A/B Mechanical Honours Project Level IV ^ 6

Mechanical Level IV Elective from below 3

^ Students accepted into the Honours Stream will take MECH ENG 4133A/B Mechanical Engineering Honours Project and other students will take MECH ENG 4133A/B Mechanical Engineering Design Project

Level IV Electives

MECH ENG 4101 Biomechanical Engineering 3

MECH ENG 4102 Advanced PID Control 3

MECH ENG 4103 Advanced Computer Aided Engineering 3

MECH ENG 4104 Advanced Topics in Fluid Mechanics 3

MECH ENG 4105 Advanced Vibrations 3

MECH ENG 4107 Airconditioning 3

MECH ENG 4109 Automotive Combustion, Power Train & NVH + ... 3

MECH ENG 4110 Automotive Vehicle Dynamics & Safety 3

MECH ENG 4111 CFD for Engineering Applications 3

MECH ENG 4112 Combustion Technology & Emission Control 3

MECH ENG 4114 Corrosion: Principles & Prevention 3

MECH ENG 4117 Finance for Engineers 3

MECH ENG 4118 Finite Element Analysis of Structures 3

MECH ENG 4119 Fire Engineering 3

MECH ENG 4124 Robotics M 3

MECH ENG 4126 Topics in Welded Structures 3

MECH ENG 4127 Wind Engineering 3

MECH ENG 4120 Fracture Mechanics 3

MECH ENG 4121 Materials Selection & Failure Analysis + ... 3

MECH ENG 4122 Mechanical Signature Analysis 3

MECH ENG 4125 Stresses in Plates & Shells 3

\+ Not offered in 2009

6.5.11.4 B.E.(Mechanical)/B.Fin.

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:

Level I

C&ENVENG 1010 Engineering Mechanics - Statics 3

CHEM ENG 1009 Materials I 3

ECON 1004 Principles of Microeconomics I 3

MATHS 1011 Mathematics IA 3

MATHS 1012 Mathematics IB 3

MATHS 1013 Mathematics IMA * 3

MECH ENG 1006 Design Graphics & Communication M 3

MECH ENG 1007 Engineering Mechanics - Dynamics 3

MECH ENG 1100 Introduction to Mechanical Engineering 3

* See Clause 6.2 regarding Level I Mathematics requirements.

Level II

ECON 1000 Principles of Macroeconomics I 3

ECON 1009 International Financial Institutions & Markets I 3

ELEC ENG 1009 Electrical & Electronic Engineering IA 3

MATHS 2201 Engineering Mathematics I 3

MATHS 2202 Engineering Mathematics II 3

MECH ENG 2002 Stress Analysis & Design 3

MECH ENG 2100 Design Practice 3

MECH ENG 2101 Mechatronics IM * 3

* Includes Workshop Practice

Level III

Note: Level III, IV & V are indicative only - for enrolment information continuing students should see: www.ecms.adelaide.edu.au/enrol/guides

ACCTING 1002 Accounting for Decision Makers I 3

CORPFIN 2500 Business Finance II 3

ECON 2504 Intermedial Econometrics II 3

ECON 2508 Financial Economics II 3

MECH ENG 2020 Materials & Manufacturing 3

MECH ENG 2021 Thermo-Fluids I 3

MECH ENG 3027 Engineering Systems Design & Communication 3

MECH ENG 3030 Structural Design & Solid Mechanics 3

Level IV

CORPFIN 2501 Financial Institutions Management 3

MECH ENG 2019 Dynamics & Control I 3

MECH ENG 3101 Applied Aerodynamics 3

MECH ENG 3103 Manufacturing Engineering 3

MECH ENG 3105 Sustainability & the Environment 3

Level III Finance Courses including:

CORPFIN 3009 Portfolio Theory and Management III 3

and either

MATHS 3012 Financial Modelling III 3

or

CORPFIN 3013 Options, Futures and Risk Management III. 3

Level V

MATHS 2104 Numerical Methods 3

MECH ENG 3028 Dynamics & Control 2 3

MECH ENG 3102 Heat Transfer & Thermodynamics 3

MECH ENG 4116 Engineering Management & Quality Systems 3

MECH ENG 4132A/B Mechanical Design Project Level IV ^ 6

or

MECH ENG 4133A/B Mechanical Honours Project Level IV ^ 6

Level III Finance Course 6

^ Students accepted into the Honours Stream will take MECH ENG 4133A/B Mechanical Engineering Honours Project and other students will take MECH ENG 4133A/B Mechanical Engineering Design Project

Level IV Electives

MECH ENG 4101 Biomechanical Engineering 3

MECH ENG 4102 Advanced PID Control 3

MECH ENG 4103 Advanced Computer Aided Engineering 3

MECH ENG 4104 Advanced Topics in Fluid Mechanics 3

MECH ENG 4105 Advanced Vibrations 3

MECH ENG 4107 Airconditioning 3

MECH ENG 4109 Automotive Combustion, Power Train & NVH 3

MECH ENG 4110 Automotive Vehicle Dynamics & Safety 3

MECH ENG 4111 CFD for Engineering Applications 3

MECH ENG 4112 Combustion Technology & Emission Control 3

MECH ENG 4114 Corrosion: Principles & Prevention 3

MECH ENG 4115 Engineering Acoustics 3

MECH ENG 4117 Finance for Engineers 3

MECH ENG 4118 Finite Element Analysis of Structures 3

MECH ENG 4119 Fire Engineering 3

MECH ENG 4120 Fracture Mechanics 3

MECH ENG 4121 Materials Selection & Failure Analysis + ... 3

MECH ENG 4122 Mechanical Signature Analysis 3

MECH ENG 4124 Robotics M 3

MECH ENG 4125 Stresses in Plates & Shells 3

MECH ENG 4126 Topics in Welded Structures 3

MECH ENG 4127 Wind Engineering 3

\+ Not offered in 2009

6.5.11.5 B.E.(Mechanical)/LLB

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

Level I

LAW 1501 Foundation of Law 3
LAW 1502 Law of Torts 1 3
LAW 1504 Principles of Public Law 3
LAW 1505 Law of Torts 2 3
MATHS 1011 Mathematics IA 3
MATHS 1012 Mathematics IB 3
MATHS 1013 Mathematics IMA* 3
MECH ENG 1006 Design Graphics & Communication M 3
MECH ENG 1100 Intro to Mechanical Engineering 3

* See Clause 6.2 regarding Level I Mathematics requirements.

Level II

C&ENVENG 1010 Engineering Mechanics - Statics 3
CHEM ENG 1009 Materials 1 3
ELEC ENG 1009 Electrical & Electronic Engineering IA 3
MECH ENG 1007 Engineering Mechanics - Dynamics 3
Law courses to be advised by Law School 12

Level III

Note: Level III, IV, V & VI are indicative only - for enrolment information continuing students should see: www.ecms.adelaide.edu.au/enrol/guides

MATHS 2201 Engineering Mathematics 1 3
MATHS 2202 Engineering Mathematics 2 3
MECH ENG 2018 Design Practice 3
MECH ENG 2101 Mechatronics IM* 3
MECH ENG 2002 Stress Analysis & Design 3
Law courses to be advised by Law School 9

* Includes Workshop Practice

Level IV

MECH ENG 2019 Dynamics & Control I 3
MECH ENG 2020 Materials & Manufacturing 3
MECH ENG 2021 Thermo-Fluids I 3
MECH ENG 3027 Engineering Systems Design & Communication 3
MECH ENG 3030 Structural Design & Solid Mechanics 3
MECH ENG 3103 Manufacturing Engineering 3
Law courses to be advised by Law School 6

Level V

APP MTH 3017 Waves 3
MECH ENG 3028 Dynamics & Control II 3
MECH ENG 3101 Applied Aerodynamics 3
MECH ENG 3102 Heat Transfer & Thermodynamics 3
MECH ENG 3105 Sustainability & the Environment 3
MECH ENG 4116 Engineering Management & Quality Systems 3
Law courses 6

Level VI

MECH ENG 4132A/B Mechanical Design Project Level IV ^ 6

or

MECH ENG 4133A/B Mechanical Honours Project Level IV ^ 6
Law courses 15
Mechanical Engineering elective 3

Plus Law courses to be specified by Law School.

^ Students accepted into the Honours Stream will take MECH ENG 4133A/B Mechanical Engineering Honours Project and other students will take MECH ENG 4133A/B Mechanical Engineering Design Project

6.5.11.6 B.E.(Mechanical)/B.Ma.&Comp.Sc. (Computer Science focus)

To qualify for both the award of the degree of B.E.(Mechanical) and the degree of B.Ma.Comp. Sc. with a Computer Science Focus, candidates are required to complete satisfactorily:

Level I

C&ENVENG 1010 Engineering Mechanics - Statics 3
COMP SCI 1008 Computer Science IA 3
COMP SCI 1009 Computer Science IB 3
MATHS 1011 Mathematics IA 3
MATHS 1012 Mathematics IB 3
MATHS 1013 Mathematics IMA* 3
MECH ENG 1006 Design Graphics & Communication M 3
MECH ENG 1007 Engineering Mechanics - Dynamics 3
MECH ENG 1100 Introduction to Mechanical Engineering 3

* See Clause 6.2 regarding Level I Mathematics requirements.

Level II

CHEM ENG 1009 Materials I 3
ELEC ENG 1009 Electrical & Electronic Engineering IA 3
MATHS 2201 Engineering Mathematics I 3
MATHS 2202 Engineering Mathematics II 3
MECH ENG 2002 Stress Analysis & Design 3

MECH ENG 2021 Thermo-Fluids I.....3

MECH ENG 2019 Dynamics & Control I.....3

MECH ENG 2100 Design Practice.....3

Level III

Note: Level III, IV & V are indicative only - for enrolment information continuing students should see: www.ecms.adelaide.edu.au/enrol/guides

APP MTHS 3017 Waves.....3

COMP SCI 2000 Computer Systems.....3

COMP SCI 2004 Data Structures & Algorithms.....3

MECH ENG 2020 Materials & Manufacturing.....3

MECH ENG 2101 Mechatronics IM (includes Workshop Practice).....3

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

MECH ENG 3028 Dynamics & Control 2.....3

MECH ENG 3030 Structural Design & Solid Mechanics.....3

Level IV

Computer Science courses*.....18

MECH ENG 3101 Applied Aerodynamics.....3

MECH ENG 3103 Manufacturing Engineering.....3

* This is a focus on Computer Science only - a major in Computer Science requires in addition, the presentation of 3 units at Level II, and 12 units of the 18 units at Level III should be Computer Science courses of which one must be Software Engineering & Project. For further advice contact a Faculty Program Adviser.

Level V

MECH ENG 3102 Heat Transfer & Thermodynamics.....3

MECH ENG 3105 Sustainability & the Environment.....3

MECH ENG 4116 Engineering Management & Quality Systems.....3

MECH ENG 4132A/B Mechanical Design Project Level IV ^.....6

or

MECH ENG 4133A/B Mechanical Honours Project Level IV^.....6

Mechanical Engineering Electives.....9

^ Students accepted into the Honours Stream will take MECH ENG 4133A/B Mechanical Engineering Honours Project and other students will take MECH ENG 4133A/B Mechanical Engineering Design Project

Electives

APP MTH 4004 System Modelling & Simulation*.....3

APP MTH 4007 Computational Fluid Dynamics (Engineering)*.....3

MECH ENG 4101 Biomechanical Engineering.....3

MECH ENG 4102 Advanced PID Control.....3

MECH ENG 4103 Advanced Computer Aided Engineering.....3

MECH ENG 4104 Advanced Topics in Fluid Mechanics.....3

MECH ENG 4105 Advanced Vibrations.....3

MECH ENG 4107 Airconditioning.....3

MECH ENG 4109 Automotive Combustion, Power Train & NVH+.....3

MECH ENG 4110 Automotive Vehicle Dynamics & Safety.....3

MECH ENG 4111 CFD for Engineering Applications.....3

MECH ENG 4112 Combustion Technology & Emission Control.....3

MECH ENG 4113 Computational Acoustics.....3

MECH ENG 4114 Corrosion: Principles & Prevention.....3

MECH ENG 4115 Engineering Acoustics.....3

MECH ENG 4117 Finance for Engineers.....3

MECH ENG 4118 Finite Element Analysis of Structures.....3

MECH ENG 4119 Fire Engineering.....3

MECH ENG 4120 Fracture Mechanics.....3

MECH ENG 4121 Materials Selection & Failure Analysis +.....3

MECH ENG 4122 Mechanical Signature Analysis.....3

MECH ENG 4124 Robotics M.....3

MECH ENG 4125 Stresses in Plates & Shells.....3

MECH ENG 4126 Topics in Welded Structures.....3

MECH ENG 4127 Wind Engineering.....3

Note: Only one elective not offered by the School of Mechanical Engineering may be taken.

* Not offered by Engineering.

+ Not offered in 2009

6.5.11.7 B.E (Mechanical)/B.Ma.&Comp.Sc. (Mathematics focus)

To qualify for both the award of the degree of B.E.(Mechanical) and the degree of B.Ma.Comp. Sc. with a Mathematics focus, candidates are required to complete satisfactorily:

Level I

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

CHEM ENG 1009 Materials I.....3

MATHS 1011 Mathematics IA.....3

MATHS 1012 Mathematics IB.....3

MATHS 1013 Mathematics IMA*.....3

MECH ENG 1006 Design Graphics & Communication.....3

MECH ENG 1007 Engineering Mechanics - Dynamics.....3

ELEC ENG 1009 Electrical & Electronic Engineering IA 3

MECH ENG 1100 Introduction to Mechanical Engineering 3

* See Clause 6.2 regarding Level I Mathematics requirements.

Level II

MATHS 2201 Engineering Mathematics I 3

MATHS 2202 Engineering Mathematics 2 3

MECH ENG 2002 Stress Analysis & Design 3

MECH ENG 2011 Mechatronics IM* 3

MECH ENG 2019 Dynamics & Control I 3

MECH ENG 2020 Materials & Manufacturing 3

MECH ENG 2021 Thermo-Fluids I 3

MECH ENG 2100 Design Practice 3

* Includes Workshop Practical

Level III

Note: Level III, IV & V are indicative only - for enrolment information continuing students should see: www.ecms.adelaide.edu.au/enrol/guides

See notes regarding Maths majors below* Level IV

APP MTH 3017 Waves 3

MECH ENG 3020 Heat Transfer & Thermodynamics 3

MECH ENG 3027 Engineering Systems Design & Communication 3

MECH ENG 3028 Dynamics & Control 2 3

MECH ENG 3030 Structural Design & Solid Mechanics 3

MECH ENG 3101 Applied Aerodynamics 3

MECH ENG 3103 Manufacturing Engineering 3

MECH ENG 3105 Sustainability & the Environment 3

Level IV

Level III Maths Courses* 24

*If students wish to undertake Pure Mathematics or Statistics courses they should consult Maths Course Advisers before commencement of Level III - the 24 units of Level III Mathematics required may contain 6 units at Level II

Level V

MECH ENG 4116 Engineering Management & Quality Systems 3

MECH ENG 4132A/B Mechanical Design Project Level IV ^ 6

or

MECH ENG 4133A/B Mechanical Honours Project Level IV ^ 6

Electives 15

^ Students accepted into the Honours Stream will take MECH ENG 4133A/B Mechanical Engineering Honours Project and other students will take MECH ENG 4133A/B Mechanical Engineering Design Project

Electives

APP MTH 4004 System Modelling & Simulation* 3

APP MTH 4007 Computational Fluid Dynamics (Engineering)* 3

MECH ENG 4101 Biomechanical Engineering 3

MECH ENG 4102 Advanced PID Control 3

MECH ENG 4103 Advanced Computer Aided Engineering 3

MECH ENG 4104 Advanced Topics in Fluid Mechanics 3

MECH ENG 4105 Advanced Vibrations 3

MECH ENG 4107 Airconditioning 3

MECH ENG 4109 Automotive Combustion, Power Train & NVH + ... 3

MECH ENG 4110 Automotive Vehicle Dynamics & Safety 3

MECH ENG 4111 CFD for Engineering Applications 3

MECH ENG 4112 Combustion Technology & Emission Control 3

MECH ENG 4113 Computational Acoustics 3

MECH ENG 4114 Corrosion: Principles & Prevention 3

MECH ENG 4115 Engineering Acoustics 3

MECH ENG 4117 Finance for Engineers 3

MECH ENG 4118 Finite Element Analysis of Structures 3

MECH ENG 4119 Fire Engineering 3

MECH ENG 4120 Fracture Mechanics 3

MECH ENG 4121 Materials Selection & Failure Analysis + ... 3

MECH ENG 4122 Mechanical Signature Analysis 3

MECH ENG 4124 Robotics M 3

MECH ENG 4125 Stresses in Plates & Shells 3

MECH ENG 4126 Topics in Welded Structures 3

MECH ENG 4127 Wind Engineering 3

Note: Only one elective not offered by the School of Mechanical Engineering may be taken.

* Not offered by Engineering.

+ Not offered in 2009

6.5.11.8 B.E.(Mechanical)/B.Sc.

To qualify for a Bachelor of Science award, students must complete a major pursuant to Bachelor of Science Program Rules.

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:

Level I

C&ENVENG 1010 Engineering Mechanics - Statics 3
CHEM ENG 1009 Materials I 3
MATHS 1011 Mathematics IA 3
MATHS 1012 Mathematics IB 3
MATHS 1013 Mathematics IMA* 3
MECH ENG 1006 Design Graphics & Communication M 3
MECH ENG 1007 Engineering Mechanics - Dynamics 3
MECH ENG 1100 Introduction to Mechanical Engineering 3
Level I Science Course 3

* See Clause 6.2 regarding Level I Mathematics requirements.

Level II

MATHS 2201 Engineering Mathematics I 3
MATHS 2202 Engineering Mathematics II 3
MECH ENG 2002 Stress Analysis & Design 3
MECH ENG 2020 Materials & Manufacturing 3
MECH ENG 2021 Thermo-Fluids I 3
MECH ENG 2100 Design Practice 3
MECH ENG 2101 Mechatronics IM (includes Workshop Practice) 3
Level I Science course 3

Level III

Note: Level III, IV & V are indicative only - for enrolment information continuing students should see: www.ecms.adelaide.edu.au/enrol/guides

MECH ENG 2019 Dynamics & Control I 3
MECH ENG 3027 Engineering Systems Design & Communication 3
MECH ENG 3030 Structural Design & Solid Mechanics 3
MECH ENG 3102 Heat Transfer & Thermodynamics 3
Level II Science courses* 12

*Consult Science course advisers regarding Major sequence

Level IV

Level III Science Courses 24

Level V

MECH ENG 3101 Applied Aerodynamics 3
MECH ENG 3028 Dynamics & Control II 3
MECH ENG 3103 Manufacturing Engineering 3
MECH 3105 Sustainability & the Environment 3
MECH ENG 4132A/B Mechanical Design Project Level IV ^ 6

or

MECH ENG 4133A/B Mechanical Honours Project Level IV ^ 6
MECH ENG 4116 Engineering Management& Quality Systems 3
Mechanical Engineering Elective 3

^ Students accepted into the Honours Stream will take MECH ENG 4133A/B Mechanical Engineering Honours Project and other students will take MECH ENG 4133A/B Mechanical Engineering Design Project

Electives

MECH ENG 4101 Biomechanical Engineering 3
MECH ENG 4102 Advanced PID Control 3
MECH ENG 4103 Advanced Computer Aided Engineering 3
MECH ENG 4104 Advanced Topics in Fluid Mechanics 3
MECH ENG 4105 Advanced Vibrations 3
MECH ENG 4107 Airconditioning 3
MECH ENG 4109 Automotive Combustion, Power Train & NVH+ 3
MECH ENG 4110 Automotive Vehicle Dynamics & Safety 3
MECH ENG 4111 CFD for Engineering Applications 3
MECH ENG 4112 Combustion Technology & Emission Control 3
MECH ENG 4113 Computational Acoustics 3
MECH ENG 4114 Corrosion: Principles & Prevention 3
MECH ENG 4115 Engineering Acoustics 3
MECH ENG 4117 Finance for Engineers 3
MECH ENG 4118 Finite Element Analysis of Structures 3
MECH ENG 4119 Fire Engineering 3
MECH ENG 4120 Fracture Mechanics 3
MECH ENG 4121 Materials Selection & Failure Analysis+ 3
MECH ENG 4122 Mechanical Signature Analysis 3
MECH ENG 4124 Robotics M 3
MECH ENG 4125 Stresses in Plates & Shells 3

MECH ENG 4126 Topics in Welded Structures 3

MECH ENG 4127 Wind Engineering.....3

+ Not offered in 2009

6.5.12 Mechatronic Engineering

6.5.12.1 B.E.(Mechatronic)

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 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 & Communication 3

MECH ENG 1007 Engineering Mechanics - Dynamics 3

MECH ENG 1103 Intro to Mechatronic Engineering.....3

Level II

MATHS 2201 Engineering Mathematics I.....3

MATHS 2202 Engineering Mathematics II.....3

MECH ENG 2002 Stress Analysis & Design.....3

MECH ENG 2015 Electronics IIM.....3

MECH ENG 2019 Dynamics & Control I.....3

MECH ENG 2021 Thermo-Fluids I.....3

MECH ENG 2100 Design Practice.....3

MECH ENG 2101 Mechatronics IM (includes Workshop Practice).....3

Level III

Note: Level III, IV & V are indicative only - for enrolment information continuing students should see: www.ecms.adelaide.edu.au/enrol/guides

ELEC ENG 3025 Power Electronics & Drive Systems M 3

MECH ENG 3027 Engineering Systems Design & Communication 3

MECH ENG 3028 Dynamics & Control II.....3

MECH ENG 3032 Microcontroller Programming ..3

MECH ENG 3102 Heat Transfer & Thermodynamics 3

MECH ENG 3103 Manufacturing Engineering.....3

MECH ENG 3105 Sustainability & the Environment.....3

MECH ENG 3106 Mechatronics II.....3

Level IV

MECH ENG 4102 Advanced PID Control 3

MECH ENG 4116 Engineering Management & Quality Systems…… 3

MECH ENG 4122 Mechanical Signature Analysis 3

MECH ENG 4123 Advanced Digital Control..... …3

MECH ENG 4124 Robotics M 3

MECH ENG 4134A/B Mechatronics Design Project Level IV^ 6

or

MECH ENG 4135A/B Mechatronics Honours Project^ 6

Elective courses to the value of at least 3 units

^ Students accepted into the Honours Stream will take MECH ENG 4135A/B Mechatronics Engineering Honours Project and other students will take MECH ENG 4134A/B Mechatronics Engineering Design Project

Electives

APP MTH 4043 Transform Methods & Signal Processing 2

MECH ENG 4101 Biomechanical Engineering.....3

MECH ENG 4105 Advanced Vibrations.....3

MECH ENG 4110 Automotive Vehicle Dynamics & Safety.....3

MECH ENG 4113 Computational Acoustics 3

MECH ENG 4114 Corrosion: Principles & Prevention 3

MECH ENG 4115 Engineering Acoustics.....3

MECH ENG 4117 Finance for Engineers.....3

MECH ENG 4119 Fire Engineering.....3

MECH ENG 4126 Topics in Welded Structures 3

6.5.12.2 B.E.(Mechatronic)/B.A.

To satisfy the Arts component of this program, students commencing in 2009 must undertake 30 units of Arts courses, which includes an approved major sequence (24 units). The remaining 6 units can be undertaken at any level. Students should consult the Bachelor of Arts academic program rules for the list of approved major sequences and the specific requirements of each.

To satisfy the BE (Mechatronic) component of this program candidates are required to satisfactorily complete the courses listed below:

Level I

C&ENVENG 1010 Engineering Mechanics - Statics 3

MATHS 1011 Mathematics IA.....3

MATHS 1012 Mathematics IB.....3

MATHS 1013 Mathematics IMA*.....3

MECH ENG 1006 Design Graphics & Communication M 3

MECH ENG 1007 Engineering Mechanics - Dynamics 3

MECH ENG 1103 Intro to Mechatronic Engineering 3

Level I Arts Course 6

* See Clause 6.2 regarding Level I Mathematics requirements.

Level II

Arts course 6

CHEM ENG 1009 Materials I 3

ELEC ENG 1009 Electrical & Electronic Engineering IA 3

MATHS 2201 Engineering Mathematics I 3

MATHS 2202 Engineering Mathematics II 3

MECH ENG 2002 Stress Analysis & Design 3

MECH ENG 2100 Design Practice 3

Level III

Note: Level III, IV & V are indicative only - for enrolment information continuing students should see: www.ecms.adelaide.edu.au/enrol/guides

Arts courses 12

MECH ENG 2011 Mechatronics IM* 3

MECH ENG 2015 Electronics IIM 3

MECH ENG 2019 Dynamics & Control I 3

MECH ENG 2021 Thermo-Fluids I 3

* Includes Workshop Practice

Level IV

ELEC ENG 3025 Power Electronics & Drive Systems 3

MECH ENG 3027 Engineering Systems Design & Communication 3

MECH ENG 3028 Dynamics & Control II 3

MECH ENG 3032 Micro-Controller Programming .. 3

MECH ENG 3102 Heat Transfer & Thermodynamics 3

MECH ENG 3103 Manufacturing Engineering 3

MECH ENG 3105 Sustainability & the Environment 3

MECH ENG 3106 Mechatronics II 3

Level V

Arts courses 6

MECH ENG 4102 Advanced PID Control 3

MECH ENG 4116 Engineering Management & Professional Practice 3

MECH ENG 4122 Mechanical Signature Analysis 3

MECH ENG 4123 Advanced Digital Control 3

MECH ENG 4124 Robotics M 3

MECH ENG 4134A/B Mechatronics Design Project Level IV^ 6

or

MECH ENG 4135A/B Mechatronics Honours Project^ 6

^ Students accepted into the Honours Stream will take MECH ENG 4135A/B Mechatronics Engineering Honours Project and other students will take MECH ENG 4134A/B Mechatronics Engineering Design Project

6.5.12.3 B.E.(Mechatronic)/B.Ma. & Comp. Sc. (Computer Science focus)

To qualify for both the award of the degree of B.E.(Mechatronic) and the degree of B.Ma.Comp. Sc. with a Computer Science Focus, candidates are required to complete satisfactorily:

Level I

C&ENVENG 1010 Engineering Mechanics-Statics 3

COMP SCI 1008 Computer Science IA 3

COMP SCI 1009 Computer Science IB 3

MATHS 1011 Mathematics IA 3

MATHS 1012 Mathematics IB 3

MATHS 1013 Mathematics IMA* 3

MECH ENG 1006 Design Graphics & Communication M 3

MECH ENG 1007 Engineering Mechanics - Dynamics 3

MECH ENG 1103 Introduction to Mechatronic Engineering 3

* See Clause 6.2 regarding Level I Mathematics requirements.

Level II

CHEM ENG 1009 Materials I 3

ELEC ENG 1009 Electrical & Electronic Engineering IA 3

MATHS 2201 Engineering Mathematics I 3

MATHS 2202 Engineering Mathematics 2 3

MECH ENG 2002 Stress Analysis & Design 3

MECH ENG 2019 Dynamics & Control I 3

MECH ENG 2021 Thermo-Fluids I 3

MECH ENG 2100 Design Practice 3

Level III

Note: Level III, IV & V are indicative only - for enrolment information continuing students should see: www.ecms.adelaide.edu.au/enrol/guides

COMP SCI 2000 Computer Systems 3

COMP SCI 2004 Data Structures & Algorithms 3

ELEC ENG 3025 Power Electronics & Drive Systems M 3

MECH ENG 2015 Electronics IIM 3

MECH ENG 2101 Mechatronics IM* 3

MECH ENG 3027 Engineering Systems Design & Communication 3

MECH ENG 3032 Micro-Controller Programming 3

MECH ENG 3106 Mechatronics II 3

* Includes workshop practical

Level IV

Computer Science Courses*.....18

MECH ENG 3020 Heat Transfer & Thermodynamics.....3

MECH ENG 3028 Dynamics & Control II.....3

* This program gives a focus only on Computer Science - a major in Computer Science requires this 18 units to contain 12 units at Level III, one of which must be Software Engineering & Project; and a further 3 units at Level II. For further advice consult a Faculty Program Officer.

Level V

MECH ENG 4102 Advanced PID Control.....3

MECH ENG 4116 Engineering Management & Quality Systems.....3

MECH ENG 4122 Mechanical Signature Analysis 3

MECH ENG 4123 Advanced Digital Control.....3

MECH ENG 4124 Robotics M.....3

MECH ENG 4134A Mechatronic Design Project Level IV^.....6

or

MECH ENG 4135A/B Mechatronics Honours Project^.....6

MECH ENG 3015 Sustainability & the Environment.....3

^ Students accepted into the Honours Stream will take MECH ENG 4135A/B Mechatronics Engineering Honours Project and other students will take MECH ENG 4134A/B Mechatronics Engineering Design Project

6.5.12.4 B.E (Mechatronic)/ B.Ma.&Comp.Sc. (Mathematics focus)

To qualify for both the award of the degree of B.E.(Mechatronic) and the degree of B.Ma.Comp. Sc. with a Mathematics Focus, candidates are required to complete satisfactorily:

Level I

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

MATHS 1013 Mathematics IMA*.....3

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

MECH ENG 1007 Engineering Mechanics - Dynamics.....3

MECH ENG 1103 Intro to Mechatronic Engineering.....3

* See Clause 6.2 regarding Level I Mathematics requirements.

Level II

MATHS 2201 Engineering Mathematics I.....3

MATHS 2202 Engineering Mathematics II.....3

MECH ENG 2002 Stress Analysis & Design.....3

MECH ENG 2015 Electronics IIM.....3

MECH ENG 2021 Thermo-Fluids I.....3

MECH ENG 2100 Design Practice.....3

MECH ENG 2101 Mechatronics IM*.....3

MECH ENG 2019 Dynamics & Control I.....3

* Includes workshop practical

Level III

Note: Level III, IV & V are indicative only - for enrolment information continuing students should see: www.ecms.adelaide.edu.au/enrol/guides

Students should consult Maths Course Advisers if they wish to undertake study in Pure Mathematics or Statistics - see notes below.

ELEC ENG 3025 Power Electronics & Drive Systems.....3

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

MECH ENG 3028 Dynamics & Control II.....3

MECH ENG 3032 Micro-Controller Programming..3

MECH ENG 3102 Heat Transfer & Thermodynamics.....3

MECH ENG 3105 Sustainability & the Environment.....3

MECH ENG 3106 Mechatronics II.....3

MECH ENG 3103 Manufacturing Engineering.....3

Level IV

Level III Maths courses*.....24

* The 24 units required may contain 6 units at Level II and 18 units at Level III.

Level V

MECH ENG 4102 Advanced PID Control.....3

MECH ENG 4116 Engineering Management & Quality Systems.....3

MECH ENG 4122 Mechanical Signature Analysis 3

MECH ENG 4123 Advanced Digital Control.....3

MECH ENG 4124 Robotics M.....3

MECH ENG 4134A Mechatronic Design Project Level IV^.....6

or

MECH ENG 4019A/B Mechatronics Honours Project^.....6

Elective (chosen from list).....3

^ Students accepted into the Honours Stream will take MECH ENG 4019A/B Mechatronics Engineering Honours Project and other students will take MECH ENG 4134A/B Mechatronics Engineering Design Project

Electives

APP MTH 4043 Transform Methods & Signal Processing 2

MECH ENG 4101 Biomechanical Engineering..... 3

MECH ENG 4105 Advanced Vibrations..... 3

MECH ENG 4110 Automotive Vehicle Dynamics & Safety..... 3

MECH ENG 4113 Computational Acoustics 3

MECH ENG 4114 Corrosion: Principles & Prevention 3

MECH ENG 4115 Engineering Acoustics..... 3

MECH ENG 4117 Finance for Engineers..... 3

MECH ENG 4119 Fire Engineering..... 3

MECH ENG 4121 Materials Selection & Failure Analysis + ... 3

MECH ENG 4126 Topics in Welded Structures 3

+ Not offered in 2009.

6.5.13 Mining Engineering

6.5.13.1 B.E.(Mining)

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 1011 Introduction to Mining Engineering IA 3

C&ENVENG 1012 Engineering Modelling & Analysis IA 3

GEOLOGY 1104 Geology for Engineers..... 3

MATHS 1011 Mathematics IA 3

MATHS 1012 Mathematics IB 3

MECHENG 1007 Engineering Mechanics-Dynamics 3

Level II

C&ENVENG 2025 Strength of Materials IIA 3

C&ENVENG 2068 Environmental Engineering & Sustainability II..... 3

C&ENVENG 2069 Geotechnical Engineering IIA ... 3

C&ENVENG 2070 Engineering Modelling & Analysis IIA 3

C&ENVENG 2071 Water Engineering IIA..... 3

C&ENVENG 2072 Structural Engineering Design.. 3

GEOLOGY 2504 Economic & Mine Geology..... 3

MATHS 2201 Engineering Mathematics I..... 3

Level III

Note: Level III, IV & V are indicative only - for enrolment information continuing students should see: www.ecms.adelaide.edu.au/enrol/guides

C&ENVENG 3068 Mine Ventilation 3

C&ENVENG 3069 Rock Breakage..... 3

C&ENVENG 3070 Resource Estimation & Project Evaluation 3

C&ENVENG 3071 Mining Systems..... 3

C&ENVENG 3072 Mining Geomechanics..... 3

C&ENVENG 3073 Mine Planning 3

Electives…… 6

C&ENVENG 4104 Socio-environmental Aspects of Mining 3

C&ENVENG 4105 Minerals Processing Engineering..... 3

Level IV (not available in 2009)

C&ENVENG 4101 Mine Management 3

C&ENVENG 4102 Mine Geotechnical Engineering..... 3

C&ENVENG 4103A/B Mine Design & Feasibility.... 6

C&ENVENG 4100A/B Mining Research Project *.. 6

Electives…… 6

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

Electives:

Mining Engineering courses:

Advanced Mine Geotechnical Engineering..... 3

Mine Equipment Optimisation 3

Mine Ventilation II..... 3

Minerals Processing Part 2..... 3

Surface Mining Systems 3

Underground Mining systems..... 3

6.5.13.2 B.E.(Mining)/B.Ma.& Comp.Sc. (Mathematics focus)

To qualify for both the award of the degree of B.E.(Civil & Environmental) and the degree of B.Ma.Comp.Sc. with a Mathematics focus, candidates are required to complete satisfactorily:

Level I

C&ENVENG 1008 Engineering Planning & Design IA 3

C&ENVENG 1010 Engineering Mechanics - Statics 3

C&ENVENG 1011 Introduction to Mining Engineering IA 3

C&ENVENG 1012 Engineering Modelling & Analysis IA 3

GEOLOGY 1104 Geology for Engineers..... 3

MATHS 1011 Mathematics IA 3

MATHS 1012 Mathematics IB 3

MATHS 1013 Mathematics IMA* 3

MECHENG 1007 Engineering Mechanics - Dynamics 3

* See Clause 6.2 regarding Level I Mathematics requirements.

Level II

C&ENVENG 2025 Strength of Materials IIA 3

C&ENVENG 2068 Environmental Engineering & Sustainability II 3

C&ENVENG 2069 Geotechnical Engineering IIA ... 3

C&ENVENG 2071 Water Engineering IIA 3

C&ENVENG 2072 Structural Engineering Design .. 3

GEOLOGY 2504 Economic & Mine Geology 3

MATHS 2201 Engineering Mathematics I 3

MATHS 2202 Engineering Maths II 3

Level III

Note: Level III, IV & V are indicative only - for enrolment information continuing students should see: www.ecms.adelaide.edu.au/enrol/guides

Pure/Applied/Statistics

B.Maths & Computer Science students require either 24 units of Level III courses presentable to the Maths & Computer Sciences program or 6 units at Level II and 18 units at Level III. The Level II courses are in addition to Engineering Mathematics requirements*.

C&ENVENG 3068 Mine Ventilation 3

C&ENVENG 3069 Rock Breakage 3

C&ENVENG 3070 Resource Estimation & Project Evaluation 3

C&ENVENG 3071 Mining Systems 3

C&ENVENG 3072 Mining Geomechanics 3

C&ENVENG 3073 Mine Planning 3

C&ENVENG 4104 Socio-Environmental Aspects of Mining… 3

C&ENVENG 4105 Minerals Processing Engineering 3

*Please see Maths School Course Advisers about Mathematical majors andLevel II knowledge required if students wish to undertake work or a major in Pure Mathematics or Statistics.

Students wishing to undertake Maths courses to enhance the B.E. (Mining) program should consult Mining course advisers.

Level IV

Mathematics electives at Level II or III* 6

Mathematics electives at Level III* 18

* Students require 24 Maths units with at least 18 at Level II and the other 6 units may be at either Level II or III.

Level V (not available in 2009)

C&ENVENG 4101 Mine Management 3

C&ENVENG 4102 Mine Geotechnical Engineering 3

C&ENVENG 4103A/B Mine Design & Feasibility 6

C&ENVENG 4100A/B Mining Research Project ^

Electives…… 6

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

Electives:

Mining Engineering courses:

Advanced Mine Geotechnical Engineering 3

Mine Equipment Optimisation 3

Mine Ventilation II 3

Minerals Processing Part 2 3

Surface Mining Systems 3

Underground Mining systems 3

6.5.13.3 B.E.(Mining)/B.Sc.

To qualify for a Bachelor of Science award, students must complete a major pursuant to Bachelor of Science Program Rules.

To qualify for the award of the degrees of B.E.(Mining) and B.Sc. candidates are required to complete satisfactorily courses as indicated:

Level I

C&ENVENG 1010 Engineering Mechanics - Statics 3

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

MATHS 1012 Mathematics IB 3

MATHS 1013 Mathematics IMA* 3

PHYSICS 1100 Physics IA 3

PHYSICS 1200 Physics IB 3

* See Clause 6.2 regarding Level I Mathematics requirements.

Level II

C&ENVENG 2025 Strength of Materials IIA 3

C&ENVENG 2068 Environmental Engineering & Sustainability II 3

C&ENVENG 2069 Geotechnical Engineering IIA ... 3

C&ENVENG 2071 Water Engineering IIA 3

C&ENVENG 2072 Structural Engineering Design 3

GEOLOGY 2503 Landscape Processes & Environments II 3

GEOLOGY 2504 Economic & Mine Geology 3

MATHS 2201 Engineering Mathematics I 3

Level III

Note: Level III, IV & V are indicative only - for enrolment information continuing students should see: www.ecms.adelaide.edu.au/enrol/guides

C&ENVENG 3068 Mine Ventilation 3

C&ENVENG 3069 Rock Breakage 3

C&ENVENG 3070 Resource Estimation & Project Evaluation 3

C&ENVENG 3071 Mining Systems 3

C&ENVENG 3072 Mining Geomechanics 3

C&ENVENG 3073 Mine Planning 3

GEOLOGY 2500 Sedimentary Geology II 3

GEOLOGY 2502 Igneous & Metamorphic Geology II 3

Level IV

GEOLOGY 3008 Theoretical Geophysics III 3

GEOLOGY 3010 Remote Sensing (S) 3

GEOLOGY 3013 Tectonics III 3

GEOLOGY 3014 Surficial Geology III 3

GEOLOGY 3016 Igneous & Metamorphic Geology III 3

GEOLOGY 3017 Petroleum Exploration III 3

GEOLOGY 3018 Mineral Exploration III 3

GEOLOGY 3019 Field Geoscience Program III 3

Level V (Not available in 2009)

C&ENVENG 4100A/B Mining Research Project ^

Electives…… 6

C&ENVENG 4101 Mine Management 3

C&ENV 4102 Mine Geotechnical Engineering 3

C&ENVENG 4103A/B Mine Design & Feasibility 6

Electives 6

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

Electives:

Mining Engineering courses:

Advanced Mine Geotechnical Engineering 3

Mine Equipment Optimisation

Mine Ventilation II 3

Minerals Processing Part 2 3

Surface Mining Systems 3

Underground Mining systems 3

C&ENVENG 4104 Socio-environmental Aspects of Mining 3

C&ENVENG 4105 Minerals Processing Part 1 3

6.5.14 Petroleum Engineering

6.5.14.1 B.E.(Petroleum)

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 & Analysis IA 3

CHEM 1100 Chemistry IA+ 3

or

CHEM 1101 Foundations of Chemistry IA+ 3

MATHS 1011 Mathematics IA 3

MATHS 1012 Mathematics IB 3

PETROENG 1005 Introduction to Petroleum Geosciences & the Oil Industry 3

PETROENG 1006 Introduction to Petroleum Engineering 3

PHYSICS 1100 Physics IA 3

CHEM ENG 1007 Process Engineering I 3

+ Students with a Subject Achievement score of at least 13 in SACE Stage 2 Chemistry or equivalent must enrol in CHEM 1100 Chemistry IA. All other students must enrol in CHEM 1101 Foundations of Chemistry IA.

Level II

C&ENVENG 1010 Engineering Mechanics - Statics 3

MATHS 2104 Numerical Methods 3

MATHS 2201 Engineering Mathematics I 3

MECH ENG 2021 Thermo-fluids I 3

PETROENG 2001 Reservoir Thermodynamics & Fluid Properties 3

PETROENG 2005 Sedimentology & Stratigraphy 3

PETROENG 2009 Formation Evaluation, Petrophysics & Rock Properties 3

PETROENG 2010 Drilling Engineering 3

Level III

Note: Level III, IV & V are indicative only - for enrolment information continuing students should see: www.ecms.adelaide.edu.au/enrol/guides

PETROENG 3001 Reservoir Simulation 3

PETROENG 3005 Reservoir Characterisation & Modelling 3

PETROENG 3007 Well Testing & Pressure Transient Analysis 3

PETROENG 3019 Structural Geology & Seismic Methods 3

PETROENG 3020 Production Engineering & Optimisation 3

PETROENG 3023 Well Completion 3

PETROENG 3025 Reservoir Engineering 3

PETROENG 3026 Formation Damage in Petroleum Reservoirs 3

Level IV

Petroleum Engineering courses:

Decision-Makingand Risk Analysis…….. 3

Development Geology.....3

Integrated Reservoir Management 3

Oil & Gas Resources & Reserves.....3

Petroleum Project Economics 3

Project Management.....3

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 & Economics Project.....3

^ Students accepted into the Honours stream will take PETROENG 4004A/B Petroleum Engineering Honours Project and other students will take PETROENG 4020A/B Petroleum Engineering Design Project

6.5.14.2 B.E.(Petroleum)/B.E.(Chemical)

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

Level I

CHEM 1101 Foundations of Chemistry IA+ 3

and

CHEM 1201 Foundations of Chemistry IB+ 3

or

CHEM 1100 Chemistry IA+.....3

and

CHEM 1200 Chemistry IB+.....3

CHEM ENG 1008 Engineering Computing.....3

MATHS 1011 Mathematics IA.....3

MATHS 1012 Mathematics IB.....3

MATHS 1013 Mathematics IMA*.....3

PETROENG 1005 Introduction to the Petroleum Industry & Petroleum Geoscience.....3

PETROENG 1006 Introduction to Petroleum Engineering.....3

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

+ Students with a Subject Achievement score of at least 13 in SACE Stage 2 Chemistry (or equiv) must enrol in CHEM 1100/ CHEM 1200. All other students must enrol in CHEM 110 /CHEM 1201.

* See Clause 6.2 regarding Level I Mathematics requirements.

Level II

CHEM ENG 2010 Introduction to Process Simulation.....3

CHEM ENG 2014 Process Engineering IIA 3

CHEM ENG 2018 Process Engineering IIB 3

MATHS 2201 Engineering Mathematics I.....3

PETROENG 2010 Drilling Engineering 3

MATHS 2104 Numerical Methods.....3

CHEM ENG 2011 Chemical Engineering Thermodynamics 3

PETROENG 2009 Formation Evaluation, Petrophysics & Rock Properties.....3

Level III

Note: Level III, IV & V are indicative only - for enrolment information continuing students should see: www.ecms.adelaide.edu.au/enrol/guides

Chemical Engineering courses:

Chemical Engineering Applications A 3

Chemical Engineering Applications B 3

Process Control & Utilities 3

Simulation & Concept Design.....3

PETROENG 3001 Reservoir Simulation III.....3

PETROENG 3005 Reservoir Characterisation & Modelling 3

PETROENG 3024 Petroleum Exploration & Management 3

PETROENG 3025 Reservoir Engineering 3

Level IV

Chemical Engineering courses:

Chemical Engineering Unit Operations Lab.....3

Chemical Engineering Research Project H ^ 3

or

Chemical Engineering Research Project N ^ 3

Dynamics & Control (Chemical).....3

Process Product & Design 3

Professional Practice III 3

Professional Practice IV 3

CHEM ENG 4014 Plant Design Project 6

^ Students accepted into the Honours Stream will take Chemical Engineering Research Project H and other students will take Chemical Engineering Research Project N.

Level V

Petroleum Engineering courses:

Decision-Making under Uncertainty IV.....3

Integrated Field Development Planning & Economic Evaluation IV.....6

PETROENG 4002 Enhanced Oil Recovery 3

PETROENG 4004A/B Petroleum Engineering Honours Project ^ 6

or

PETROENG 4020A/B Petroleum Engineering Design Project ^ 6

Petroleum Electives 6

^ Students accepted into the Honours stream will take PETROENG 4004A/B Petroleum Engineering Honours Project and other students will take PETROENG 4020A/B Petroleum Engineering Design Project

Electives

Petroleum Engineering courses:

Oil & Gas Resources & Reserves 3

Reservoir & Project Management IV 3

PETROENG 3007 Well Testing & Pressure Transient Analysis III 3

PETROENG 3020 Production Engineering & Optimisation 3

PETROENG 3023 Well Completions 3

6.5.14.3 B.E.(Petroleum)/B.E.(Civil & Environmental)

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:

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

ENV BIOL 1002 Ecological Issues 3

MATHS 1011 Mathematics IA 3

MATHS 1012 Mathematics IB 3

MATHS 1013 Mathematics IMA* 3

PETROENG 1005 Introduction to the Petroleum Industry & the Oil Industry 3

PETROENG 1006 Introduction to Petroleum Engineering 3

* See Clause 6.2 regarding Level I Mathematics requirements.

Level II

C&ENVENG 2068 Environmental Engineering & Sustainability II 3

C&ENVENG 2069 Geotechnical Engineering II 3

C&ENVENG 2071 Water Engineering IIA 3

ENV BIOL 2005 Ecology E 3

MATHS 2201 Engineering Mathematics I 3

PETROENG 2005 Sedimentology & Stratigraphy 3

PETROENG 2009 Formation Evaluation, Petrophysics & Rock Properties 3

PETROENG 2010 Drilling Engineering 3

Level III

Note: Level III, IV & V are indicative only - for enrolment information continuing students should see: www.ecms.adelaide.edu.au/enrol/guides

Civil & Environmental Engineering courses:

Transport Processes in the Environment 3

Water Engineering & Design III 3

C&ENVENG 3009 Environmental Engineering & Design III 3

C&ENVENG 3012 Geotechnical Engineering Design III 3

PETROENG 3005 Reservoir Characterisation & Modelling 3

PETROENG 3019 Structural Geology & Seismic Methods 3

PETROENG 3020 Production Engineering & Optimisation 3

PETROENG 3025 Reservoir Engineering 3

Level IV

Civil & Environmental Engineering courses:

Engineering Hydrology 3

C&ENVENG 4034 Civil Engineering Management IV 3

C&ENVENG 4005 A/BCivil & Environmental Research Project Part 1 ^ 6

C&ENVENG 4037 Introduction to Environmental Law 3

MATHS 2104 Numerical Methods 3

C&ENVENG specialisations 6

^ Students who are not selected for Honours will be required to complete 2 additional final year specialisation courses instead of the Civil & Environmental Research Project.

Specialisations

Students may take 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 School, replace one or more specialisation courses with appropriate courses offered by other schools in the University

Not all specialisations will be available each year, and students should check the Class Planner.

C&ENVENG 4073 Water Distribution Systems & Design 3

C&ENVENG 4075 Water Resources Optimisation & Modelling 3

C&ENVENG 4077 Coastal Engineering & Design 3

C&ENVENG 4079 Deep Foundation Engineering & Design 3

C&ENVENG 4081 Expansive Soils & Footing Design 3

C&ENVENG 4085 Traffic Engineering & Design 3

C&ENVENG 4087 Environmental Modelling, Management & Design 3

C&ENVENG 4091 Waste Management Analysis & Design 3

C&ENVENG 4092 Wastewater Engineering & Design 3

C&ENVENG 4097 Analysis of Rivers & Sediment Transport 3

C&ENVENG 4098 Water Resources Sustainability & Design 3

Other coursework, with the approval of the Head, School ofCivil & Environmental and Mining.

Level V

Petroleum Engineering courses:

Decision-Making and Risk Analysis.....3

Oil & Gas Resources & Reserves.....3

PETROENG 4004A/B Petroleum Engineering Honours Project ^ 6

or

PETROENG 4020A/B Petroleum Engineering Design Project ^ 6

Electives.....9

PETROENG 4022 Integrated Field Development & Economic Project.....3

^ Students accepted into the Honours stream will take PETROENG 4004A/B Petroleum Engineering Honours Project and other students will take PETROENG 4020A/B Petroleum Engineering Design Project

Electives*

Note: Not all electives are available each year and students should check Class Planner.

Petroleum Engineering courses:

Development Geology.....3

Gas Fields Optimisation

Inegrated Reservoir Management.....3

Reservoir & Project Management IV 3

Well Completion 3

PETROENG 3007 Well Testing & Pressure Transient Analysis III.....3

PETROENG 4002 Enhanced Oil Recovery 3

*Approval is required from the Head of the Australian School of Petroleum or nominee to finalise the choice of elective courses.

6.5.14.4 B.E.(Petroleum)/B.E.(Civil & Structural)

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:

Level I

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

MATHS 1013 Mathematics IMA*.....3

PETROENG 1005 Introduction to the Petroleum Geosciences & the Oil Industry.....3

PETROENG 1006 Introduction to Petroleum Engineering.....3

* See Clause 6.2 regarding Level I Mathematics requirements.

Level II

C&ENVENG 2025 Strength of Materials IIA 3

C&ENVENG 2069 Geotechnical Engineering IIA ...3

C&ENVENG 2071 Water Engineering IIA.....3

C&ENVENG 2072 Structural Engineering Design..3

MATHS 2201 Engineering Mathematics I.....3

PETROENG 2005 Sedimentology & Stratigraphy ... 3

PETROENG 2009 Formation Evaluation, Petrophysics & Rock Properties.....3

PETROENG 2010 Drilling Engineering 3

Level III

Note: Level III, IV & V are indicative only - for enrolment information continuing students should see: www.ecms.adelaide.edu.au/enrol/guides

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

PETROENG 3019 Structural Geology & Seismic Methods.....3

PETROENG 3020 Production Engineering & Optimisation 3

PETROENG 3025 Reservoir Engineering 3

PETROENG 3026 Formation Damage in Petroleum Reservoirs 3

Level IV

Civil & Environmental Engineering courses:

Water Engineering & Design III 3

C&ENVENG 4003A/BV Civil & Structural Engineering Research Project Part 1 ^ 6

C&ENVENG 4034 Civil Engineering Management IV 3

MATHS 2104 Numerical Methods.....3

Specialisations 9

^ Students who are not selected for Honours will be required to complete 2 additional final year specialisation courses instead of the Civil & Structural Research Project.

Specialisations

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 specialisation courses may be acceptable but must be approved by the Head of School. Students may also, with the approval of the Head of School, replace one or more specialisation courses with appropriate courses offered by other schools in the University.

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

C&ENVENG 4066 Computer Methods of Structural Analysis & Design 3

C&ENVENG 4069 Advanced Reinforced Concrete 3

C&ENVENG 4070 Structural Dynamics Due to Wind and Earthquake 3

C&ENVENG 4073 Water Distribution Systems & Design 3

C&ENVENG 4075 Water Resources Optimisation & Modelling 3

C&ENVENG 4077 Coastal Engineering & Design 3

C&ENVENG 4079 Deep Foundation Engineering & Design 3

C&ENVENG 4081 Expansive Soils & Footing Design 3

C&ENVENG 4085 Traffic Engineering & Design 3

C&ENVENG 4087 Environmental Modelling, Management & Design 3

C&ENVENG 4091 Waste Management Analysis & Design 3

C&ENVENG 4092 Wastewater Engineering & Design 3

C&ENVENG 4096 FRP Retrofitting of Concrete Structures 3

C&ENVENG 4097 Analysis of Rivers & Sediment Transport 3

C&ENVENG 4098 Water Resources Sustainability & Design 3

C&ENVENG 4099 Structural Response to Blast Loading 3

Level V

Petroleum Engineering courses:

Petroleum Project Economics 3

PETROENG 4004A/B Petroleum Engineering Honours Project ^ 6

or

PETROENG 4020A/B Petroleum Engineering Design Project ^ 6

PETROENG 4007 Oil & Gas Resources & Reserves 3

PETROENG 4022 Integrated Field Development Planning & Economic Project 3

PETROENG 4024 Decision-Making and Risk Analysis 3

Petroleum Electives 6

^ Students accepted into the Honours stream will take PETROENG 4004A/B Petroleum Engineering Honours Project and other students will take PETROENG 4020A/B Petroleum Engineering Design Project

Electives

Petroleum Engineering courses:

Development Geology 3

Enhanced Oil Recovery 3

Gas Fields Optimisation 3

Reservoir & Project Management IV 3

PETROENG 3001 Reservoir Simulation 3

PETROENG 3007 Well Testing III & Pressure Transient Analysis III 3

6.5.14.5 B.E.(Petroleum)/B.E.(Mechanical)

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:

Level I

C&ENVENG 1010 Engineering Mechanics - Statics 3

ELEC ENG 1009 Electrical & Electronic Engineering IA 3

MATHS 1011 Mathematics IA 3

MATHS 1012 Mathematics IB 3

MATHS 1013 Mathematics IMA* 3

MECH ENG 1006 Design Graphics & Communication M 3

MECH ENG 1007 Engineering Mechanics - Dynamics 3

PETROENG 1005 Introduction to the Petroleum Industry & Geosciences & the Oil Industry 3

PETROENG 1006 Introduction to Petroleum Engineering 3

* See Clause 6.2 regarding Level I Mathematics requirements.

Level II

CHEM ENG 1009 Materials I 3

MATHS 2201 Engineering Mathematics I 3

MECH ENG 2002 Stress Analysis & Design 3

MECH ENG 2021 Thermo-Fluids I 3

MECH ENG 2100 Design Practice 3

PETROENG 2005 Sedimentology & Stratigraphy 3

PETROENG 2009 Formation Evaluation, Petrophysics & Rock Properties 3

PETROENG 2010 Drilling Engineering 3

Level III

Note: Level III, IV & V are indicative only - for enrolment information continuing students should see: www.ecms.adelaide.edu.au/enrol/guides

MECH ENG 2019 Dynamics & Control I 3

MECH ENG 2020 Materials & Manufacturing 3

MECH ENG 3027 Engineering Systems Design & Communication 3

MECH ENG 3030 Structural Design & Solid Mechanics 3

MECH ENG 3102 Heat Transfer & Thermodynamics 3

PETROENG 3023 Well Completion 3

PETROENG 3025 Reservoir Engineering 3

PETROENG 3026 Formation Damage in Petroleum Reservoirs 3

Level IV

MECH ENG 4132A/B Mechanical Design Project Level IV ^ 6

or

MECH ENG 4133A/B Mechanical Honours Project Level IV ^ 6

MECH ENG 3015 Sustainability & the Environment..... 3

MECH ENG 3028 Dynamics & Control II..... 3

MECH ENG 3102 Heat Transfer Thermodynamics 3

Mechanical Engineering Electives 9

^ Students accepted into the Honours stream will take MECH ENG 4133A Mechanical Honours Project and other students will take MECH ENG 4132A/B Mechanical Design Project.

Electives

MECH ENG 4107 Airconditioning 3

MECH ENG 4112 Combustion Technology & Emission Control 3

MECH ENG 4115 Engineering Acoustics..... 3

MECH ENG 4117 Finance for Engineers..... 3

MECH ENG 4118 Finite Element Analysis of Structures 3

MECH ENG 4119 Fire Engineering..... 3

MECH ENG 4120 Fracture Mechanics..... 3

MECH ENG 4121 Materials Selection & Failure Analysis+ 3

MECH ENG 4122 Mechanical Signature Analysis..... 3

MECH ENG 4124 Robotics M 3

MECH ENG 4125 Stresses in Plates & Shells..... 3

MECH ENG 4126 Topics in Welded Structures 3

+ Not offered in 2009

Level V

Petroleum Engineering courses:

Decision-Making & Risk Analysis..... 3

Petroleum Project Economics 3

PETROENG 3020 Production Engineering & Optimisation 3

PETROENG 4004A/B Petroleum Engineering Honours Project ^ 6

or

PETROENG 4020A/B Petroleum Engineering Design Project ^ 6

PETROENG 4022 Integrated Field Development Planning & Economic Project 3

Petroleum Engineering Elective 6

^ Students accepted into the Honours stream will take PETROENG 4004A/B Petroleum Engineering Honours Project and other students will take PETROENG 4020A/B Petroleum Engineering Design Project

Electives

Petroleum Engineering courses:

Development Geology..... 3

Gas Fields Optimisation 3

Integrated Reservoir Management 3

Oil & Gas Resources & Reserves..... 3

Petroleum Project Economics 3

PETROENG 4002 Enhanced Oil Recovery 3

PETROENG 3007 Well Testing & Pressure Transient Analysis 3

6.5.14.6 B.E.(Petroleum)/B.E.(Mining)

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

Level I

C&ENVENG 1010 Engineering Mechanics - Statics 3

C&ENVENG 1012 Engineering Modelling & Analysis 1A 3

C&ENVENG 1011 Introduction to Mining Engineering 1A 3

CHEM 1100 Chemistry IA..... 3

MATHS 1011 Mathematics 1A* 3

MATHS 1012 Mathematics 1B 3

MATHS 1013 Mathematics 1MA*..... 3

PETROENG 1005 Introduction to Petroleum Geosciences & the Oil Industry 3

PETROENG 1006 Introduction to Petroleum Engineering..... 3

* See Clause 6.2 regarding Level I Mathematics requirements.

Level II

C&ENVENG 2025 Strength of Materials IIA 3

C&ENVENG 2069 Geotechnical Engineering IIA ... 3

C&ENVENG 2071 Water Engineering IIA..... 3

GEOLOGY 2009 Economic & Mine Geology..... 3

MATHS 2104 Numerical Methods..... 3

MATHS 2201 Engineering Mathematics 1 3

PETROENG 2009 Formation Evaluation, Petrophysics and Rock Properties..... 3

PETROENG 2010 Drilling Engineering 3

Level III

Note: Level III, IV & V are indicative only - for enrolment information continuing students should see: www.ecms.adelaide.edu.au/enrol/guides

C&ENVENG 3068 Mine Ventilation..... 3

C&ENVENG 3069 Rock Breakage and Mine Development 3

C&ENVENG 3070 Resource Estimation & Project Evaluation 3

C&ENVENG 3071 Mining Systems..... 3

C&ENVENG 3072 Mining Geomechanics.....3

C&ENVENG 3073 Mine Planning.....3

C&ENVENG 4101 Mine Management.....3

C&ENVENG 4102 Mine Geotechnical Engineering.....3

Level IV

C&ENVENG 4103A/B Mine Design & Feasibility....6

PETROENG 3001 Reservoir Simulation.....3

PETROENG 3005 Reservoir Characterisation & Modelling.....3

PETROENG 3007 Well Testing & Pressure Transient Analysis.....3

PETROENG 3019 Structural Geology & Seismic Methods.....3

PETROENG 3020 Production Engineering & Optimisation.....3

PETROENG 3025 Reservoir Engineering.....3

Level V

Petroleum Engineering courses:

Decision Making and Risk Analysis

Development Geology

Enhanced Oil Recovery

Integrated Field Development & Economics Project

Integrated Reservoir Management

Oil and Gas Resources & Reserves

Petroleum Engineering Honours or Design Project

Petroleum Project Economics

Project Management

6.5.15 Pharmaceutical Engineering

6.5.15.1 B.E.(Pharmaceutical)

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 I: Molecules, Genes & Cells.....3

CHEM 1101 Foundations of Chemistry IA+.....3

and

CHEM 1201 Foundations of Chemistry IB+.....3

or

CHEM 1100 Chemistry IA+.....3

and

CHEM 1200 Chemistry IB+.....3

CHEM ENG 1006 Introduction to Pharmaceutical Engineering.....3

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

CHEM ENG 1009 Materials I.....3

MATHS 1011 Mathematics IA.....3

MATHS 1012 Mathematics IB.....3

MATHS 1013 Mathematics IMA*.....3

+ Students with a Subject Achievement score of at least 13 in SACE Stage 2 Chemistry or equivalent must enrol in CHEM/CHEM 1200. All other students must enrol in CHEM 1101/CHEM 1201

* See Clause 6.2 regarding Level I Mathematics requirements.

Level II

CHEM 2510 Chemistry IIA+.....3

CHEM 2540 Medicinal & Biological Chemistry 2..3

CHEM ENG 2010 Intro to Process Simulation.....3

CHEM ENG 2011 Chemical Engineering Thermodynamics.....3

CHEM ENG 2012 Principles of Pharmaceutical Engineering.....3

CHEM ENG 2014 Process Engineering IIA.....3

CHEM ENG 2015 Principles of Biotechnology II...3

CHEM ENG 2018 Process Engineering IIB.....3

+CHEM 2510 requires either passes in both CHEM 1100 & CHEM 1200 or credits in both CHEM 1101 & CHEM 1201

Level III

Note: Level III, IV & V are indicative only - for enrolment information continuing students should see: www.ecms.adelaide.edu.au/enrol/guides

BIOCHEM 2502 Biochem II (Biotech) Molecular & Cell Biology.....3

CHEM 3535 Medicinal & Biological Chemistry III.3

CHEM ENG 3017 Kinetics and Reactor Design....3

CHEM ENG 3018 Fluid and Particle Mechanics...3

CHEM ENG 3019 Pharmaceutical Plant Design and Process Engineering

CHEM ENG 3020A/B Pharmaceutical Engineering Projects & Experimental Design IIIA.....6

CHEM ENG 3021 Advanced Pharmaceutical Unit Operations.....3

CHEM ENG 4008 Environmental Engineering.....

Level IV

Pharmaceutical Engineering courses:

Biochemical Engineering.....3

Design of Batch Processes.....3

Fundamentals of Drug Development.....3

Intellectual Property Law.....3

Materials in Biomedical Applications.....3

Molecular Engineering.....3

Particulate Processes & Colloid Science.....3

Pharmaceutical Manufacturing (Validation & Regulation) & Packaging Systems.....3

Pharmaceutical Plant Design Project Part 1 & 2....6

or

Pharmaceutical Engineering Research Project H^.....6

Statistical Quality Control 3

Elective 3

^ Students accepted into the Honours stream will take Pharmaceutical Research Project H and other students will take Pharmaceutical Plant Design Project .

6.5.16 Software Engineering

6.5.16.1 B.E.(Software)

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

MATHS 1013 Mathematics IMA* 3

STATS 1000 Statistical Practice 1 3

* See Clause 6.2 regarding Level I Mathematics requirements.

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 & C++ 3

COMP SCI 2006 Introduction to Software Engineering 3

ELEC ENG 3020 Embedded Computer Systems.. 3

Elective/s approved by Faculty 6

Level III

Note: Level III & IV are indicative only - for enrolment information continuing students should see: www.ecms.adelaide.edu.au/enrol/guides

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 3013 Event Driven Computing 3

COMP SCI 3015A/B Software Engineering Group Project 6

Elective+ 3

Level IV

Computer Science courses:

Software Engineering Group Project 1 & 2 6

or

COMP SCI 4002A/B Software Engineering Honours Project^ 6

COMP SCI 4023 Software Process Improvement 3

COMP SCI 4054 High Integrity Software Engineering 3

Electrical & Electronic Engineering courses:

Financial Management for Engineers 3

Management and Professional Practice for Engineers 3

Electives+ 6

+ Electives can be courses offered within the Faculty of Engineering, Computer and Mathematical Sciences but require the approval of the Faculty Program Adviser.

^ Students accepted into the Honours stream will take COMP SCI 4002A/B Software Engineering Honours Project and other students will take Software Engineering Group Project

Level IV Electives
(other electives may be acceptable but require the approval of a Faculty Program Adviser.

COMP SCI 3007 Artificial Intelligence UG 3

COMP SCI 3009 Advanced Programming Paradigms 3

COMP SCI 3012 Distributed System`s UG..... 3

COMP SCI 3014 Computer Graphics 3

COMP SCI 4022 Computer Vision..... 3

COMP SCI 4041 Language Translators 3

COMP SCI 4077 Systems Modelling and Simulation 3

COMP SCI 4094 Distributed Databases and Data Mining 3

ELEC ENG 3022 Real Time Systems IV 3

PURE MTH 3018 Coding and Cryptology III 3

6.5.17 Sports Engineering

6.5.17.1 B.E.(Sports)

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 1009 Materials I 3

ELEC ENG 1009 Electrical and Electronic Engineering IA 3

MATHS 1011 Mathematics IA 3

MATHS 1012 Mathematics IB 3

MATHS 1013 Mathematics IMA* 3

MECH ENG 1006 Design Graphics and Communication 3

MECH ENG 1007 Engineering Mechanics - Dynamics 3

MECH ENG1104 Intro to Sports Engineering 3

* See Clause 6.2 regarding Level I Mathematics requirements.

Level II

MECH ENG 2002 Stress Analysis & Design.....3

MECH ENG 2019 Dynamics & Control I.....3

MECH ENG 2021 Thermo-Fluids I.....3

MECH ENG 2100 Design Practice.....3

MECH ENG 2102 Sports Engineering I* 3

MATHS 2201 Engineering Mathematics I.....3

MATHS 2202 Engineering Maths II.....3

PHYSIOL 2510 Human Physiology IIA 3

*Includes Workshop Practice

Level III

(Not available in 2009)

Note: Level III & IV are indicative only - for enrolment information continuing students should see: www.ecms.adelaide.edu.au/enrol/guides

MECH ENG 3027 Engineering Systems Design & Communication 3

MECH ENG 3028 Dynamics & Control II.....3

MECH ENG 3101 Applied Aerodynamics 3

MECH ENG 3103 Manufacturing Engineering.....3

MECH ENG 3105 Sustainability & the Environment.....3

Physiology course:

Exercise Physiology & Biomechanics.....3

Sports Engineering courses:

Sports Engineering II 3

Sports Materials 3

Level IV

MECH ENG 4101 Biomechanical Engineering.....3

MECH ENG 4103 Advanced Computer Aided Engineering.....3

MECH ENG 4111 CFD for Engineering Applications 3

MECH ENG 4116 Engineering Management & Quality Systems..... 3

MECH ENG 4118 Finite Element Analysis of Structures 3

MECH ENG 4136A/B Sports Engineering Design Project Level IV^ 6

or

MECH ENG 4137A/B Sports Engineering Honours Project Level IV^ 6

Sports Engineering courses:

Sports Engineering III 3

^ Students accepted into the Honours stream will take MECH ENG 4137A/B Sports Engineering Honours Project and other students will take MECH ENG 4136A/B Sports Engineering Design Project.

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 in one of the programs listed under 6.5.18.1 to 6.5.18.3 below:

6.5.18.1 Sustainable Energy (Chemical)

Level I

CHEM 1101 Foundations of Chemistry IA+ 3

and

CHEM 1201 Foundations of Chemistry IB+ 3

or

CHEM 1100 Chemistry IA+.....3

and

CHEM 1200 Chemistry IB+.....3

CHEM ENG 1007 Process Engineering 1.....3

CHEM ENG 1008 Engineering Computing.....3

CHEM ENG 1010 Professional Practice 1 3

ELEC ENG 1009 Electrical and Electronic Engineering IA 3

MATHS 1011 Mathematics IA 3

MATHS 1012 Mathematics IB 3

MATHS 1013 Mathematics IMA*.....3

+ Students with a Subject Achievement score of at least 13 in SACE Stage 2 Chemistry or equivalent must enrol in CHEM 1100 /CHEM 1200 - all other students must enrol in CHEM 1101/CHEM 1201

* See Clause 6.2 regarding Level I Mathematics requirements.

Level II

CHEM ENG 2010 Introduction to Process Simulation 3

CHEM ENG 2011 Chemical Engineering Thermodynamics 3

CHEM ENG 2013 Process Modelling and Computations 3

CHEM ENG 2014 Process Engineering IIA 3

CHEM ENG 2016 Professional Practice II 3

CHEM ENG 2018 Process Engineering IIB 3

MATHS 2201 Engineering Mathematics I.....3

MECH ENG 3017 Sustainability & the Environment..... 3

Level III

Note: Level III & IV are indicative only - for enrolment information continuing students should see: www.ecms.adelaide.edu.au/enrol/guides

Sustainable Energy Engineering courses:

Advanced Materials.....3

Electric Energy Systems.....3

Energy Management Economics & Policy 3

Power Electronics and Drive Systems 3

Process Utilities.....3

Professional Practice III 3

Simulation and Concept Design....3
MECH ENG 3101 Applied Aerodynamics 3

Level IV

Sustainable Energy Engineering courses:

Bio-Fuels 3
Distributed Generation Technologies....3
Plant Design Project (Renewable Energy)..... ...6
Professional Practice IV....3
Research Project (Renewable Energy)....3
Wind Turbine Design 3
Elective 3

6.5.18.2 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 and Electronic Engineering IA 3
ELEC ENG 1010 Electrical and Electronic Engineering IB 3
MATHS 1011 Mathematics IA....3
MATHS 1012 Mathematics IB....3
MATHS 1013 Mathematics IMA*....3
MECH ENG 1007 Engineering Mechanics - Dynamics 3

* See Clause 6.2 regarding Level I Mathematics requirements.

Level II

ELEC ENG 2007 Signals and Systems II....3
ELEC ENG 2008 Electronics II....3
ELEC ENG 2011 Circuit Analysis....3
ELEC ENG 2012 Sustainable Energy Project II 3
ELEC ENG 3020 Embedded Computer Systems..3
MATHS 2201 Engineering Mathematics I....3
MATHS 2202 Engineering Mathematics II....3
MECH ENG 2021 Thermo-Fluids 1....3

Level III

Note: Level III & IV are indicative only - for enrolment information continuing students should see: www.ecms.adelaide.edu.au/enrol/guides

Electrical & Electronic Engineering courses:

Engineering and the Environment....3
Machines and Power Systems.....3
Power Electronics and Drive Systems 3
Power Systems....3
Project Management for Sustainable Engineering....3
Signal Processing III 3
ELEC ENG 3016 Control III....3
MECH ENG 3101 Applied Aerodynamics 3

Level IV

ELEC ENG 4036A/B Design Project^ 6

or

ELEC ENG 4039A/B Honours Project^ 6

Plus courses in the area of:

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

^ Students accepted into the Honours stream will take ELEC ENG 4039A/B Honours Project and other students will take ELEC ENG 4036A/B Design Project.

6.5.18.3 Sustainable Energy (Mechanical)

Level I

C&ENVENG 1010 Engineering Mechanics - Statics 3
CHEM ENG 1009 Materials I....3
ELEC ENG 1009 Electrical and Electronic Engineering IA 3
MATHS 1011 Mathematics IA....3
MATHS 1012 Mathematics IB....3
MATHS 1013 Mathematics IMA*....3
MECH ENG 1006 Design Graphics and Communication 3
MECH ENG 1007 Engineering Mechanics - Dynamics 3
MECH ENG 1105 Intro to Sustainable Energy Engineering....3

* See Clause 6.2 regarding Level I Mathematics requirements.

Level II

MATHS 2201 Engineering Mathematics I....3
MATHS 2202 Engineering Mathematics II....3
MECH ENG 2002 Stress Analysis and Design....3
MECH ENG 2019 Dynamics & Control I....3
MECH ENG 2021 Thermo-Fluids 1....3
MECH ENG 2100 Design Practice....3
MECH ENG 2101 Mechatronics IM (Includees Workshop Practice)..... 3
MECH ENG 3105 Sustainability & the Environment....3

Level III

Note: Level III & IV are indicative only - for enrolment information continuing students should see:
www.ecms.adelaide.edu.au/enrol/guides

Sustainable Energy Engineering courses:

Architectural Issues and Sustainable Energy.....3

Bio Fuels 3

ELEC ENG 2013 Electric Energy Systems E.....3

ELEC ENG 3025 Power Electronics and Drive Systems M 3

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

MECH ENG 3032 Microcontroller Programming ..3

MECH ENG 3102 Heat Transfer and Thermodynamics II 3

MECH ENG 3101 Applied Aerodynamics 3

Level IV

Sustainable Energy Engineering courses:

Distributed Generation Technologies.....3

Energy Management Economics & Policy 3

Frontier Technologies (Sustainable Energy).....3

Wind Turbine Design 3

MECH ENG 4116 Engineering Management and Quality Systems.....3

MECH ENG 4138A/B Sustainable Energy Design Project Level IV ^ 6

or

MECH ENG 4139A/B Sustainable Energy Honours Project Level IV ^ 6

Elective 3

^ Students accepted into the Honours stream will take MECH ENG 4139A/B Sustainable Energy Honours Project and other students will take MECH ENG 4138A/B Sustainable Energy Design Project.

Electives

MECH ENG 4102 Advanced PID Control 3

MECH ENG 4104 Advanced Topics in Fluid Mechanics 3

MECH ENG 4105 Advanced Vibrations.....3

MECH ENG 4107 Airconditioning 3

MECH ENG 4111 CFD for Engineering Applications 3

MECH ENG 4112 Combustion Technology & Emission Control 3

MECH ENG 4113 Computational Acoustics 3

MECH ENG 4114 Corrosion: Principles & Prevention 3

MECH ENG 4115 Engineering Acoustics.....3

MECH ENG 4118 Finite Element Analysis of Structures 3

MECH ENG 4120 Fracture Mechanics.....3

MECH ENG 4122 Mechanical Signature Analysis 3

MECH ENG 4127 Wind Engineering.....3

MECH ENG 4121 Materials Selection & Failure Analysis + ...3

+ Not offered in 2009.

6.5.19 Telecommunications Engineering

6.5.19.1 B.E.(Telecommunications)

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

COMP SCI 2000 Computer Systems UG.....3

COMP SCI 2004 Data Structures & Algorithms 3

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

ELEC ENG 2008 Electronics II.....3

ELEC ENG 2009 Engineering Electromagnetics...3

ELEC ENG 2011 Circuit Analysis.....3

MATHS 2201 Engineering Mathematics I.....3

MATHS 2202 Engineering Mathematics II.....3

Level III

Note: Level III & IV are indicative only - for enrolment information continuing students should see:
www.ecms.adelaide.edu.au/enrol/guides

APP MTH 3016 Telecommunications Systems Modelling III.....3

COMP SCI 3006 Software Engineering & Project .. 3

ELEC ENG 3015 Communications, Signals and Systems.....3

ELEC ENG 3016 Control III.....3

ELEC ENG 3017 Digital Electronics 3

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

ELEC ENG 3019A/B Practical Electrical & Electronic Design III 3

ELEC ENG 3020 Embedded Computer Systems... 3

Level IV

ELEC ENG 4035 Communications IV

ELEC ENG 4036A/B Design Project ^ 6

or

ELEC ENG 4039A/B Honours Project ^ 6

ELEC ENG 4045 Signal Processing IV.....3

ELEC ENG 4038 Financial Management for Engineers.....3

ELEC ENG 4040 Management & Professional Practice for Engineers 3

ELEC ENG 4046 Telecommunications IV.....3

STATS 4001 Reliability & Quality Control.....3

Elective…… 3

^ Students accepted into the Honours stream will take ELEC ENG 4039A/B Honours Project and other students will take ELEC ENG 4036A/B Design Project

Electives

APP MTH 4012 Communication Network Design.....3

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 . 3.

ELEC ENG 4037 Digital Microelectronics 3

ELEC ENG 4041 Optical Communication Engineering.....3

ELEC ENG 4042 Power Electronics & Drive Systems 3

ELEC ENG 4044 RF Engineering IV.....2

ELEC ENG 4043 Power Quality & Condition Monitoring 3

ELEC ENG 4049 Analog Microelectronic Systems 3

ELEC ENG 4050 Systems Engineering 2

ELEC ENG 4051 Introduction to Electronic Defence Systems 3

PURE MTH 3018 Coding & Cryptology III 3

6.5.19.2 B.E.(Telecommunications)/B.A.

To satisfy the Arts component of this program, students commencing in 2009 must undertake 30 units of Arts courses, which includes an approved major sequence (24 units). The remaining 6 units can be undertaken at any level. Students should consult the B.A. academic program rules for the list of approved major sequences and specific requirements of each.

To satisfy the BE (Telecommunications) component of this program candidates are required to satisfactorily complete the courses listed below:

Level I

COMP SCI 1008 Computer Science IA.....3

COMP SCI 1009 Computer Science IB.....3

ELEC ENG 1009 Electrical & Electronic Engineering IA 3

MATHS 1011 Mathematics IA.....3

MATHS 1012 Mathematics IB.....3

MATHS 1013 Mathematics IMA*.....3

PHYSICS 1100 Physics IA.....3

PHYSICS 1200 Physics IB.....3

Level I Arts Course 3

* See Clause 6.2 regarding Level I Mathematics requirements.

Level II

Arts Courses 6

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

ELEC ENG 2009 Engineering Electromagnetics...3

ELECENG 2011 Circuit Analysis.....3

ELEC ENG 1010 Electrical & Electronic Engineering IB 3

MATHS 2201 Engineering Mathematics I.....3

MATHS 2202 Engineering Mathematics II.....3

Level III

Note: Level III & IV are indicative only - for enrolment information continuing students should see: www.ecms.adelaide.edu.au/enrol/guides

Arts Course.....9

COMP SCI 2000 Computer Systems 3

COMP SCI 2004 Data Structures & Algorithms 3

ELEC ENG 3015 Communication Signals & Systems 3

ELEC ENG 3017 Digital Electronics II 3

ELEC ENG 3020 Embedded Computer Systems..3

Level IV

Advanced Level Arts Course 6

COMP SCI 3001 Computer Networks & Applications 3

COMP SCI 3006 Software Engineering & Project .3

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

Telecommunications Engineering courses:

Practical Electrical & Electronic Design III.....3

Signal Processing III 3

Telecommunications III.....3

Level V

Advanced Level Arts Courses 6

ELEC ENG 4036A/B Design Project^ 6

or

ELEC ENG 4039A/B Honours Project^ 6

ELEC ENG 3016 Control III.....3

ELEC ENG 4046 Telecommunications IV.....3

Telecommunications Engineering courses:

Communications IV 3

Management & Professional Practice for Engineers 3

^ Students accepted into the Honours stream will take ELEC ENG 4039A/B Honours Project Part 1 & 2 and other studenbts will take ELEC ENG 4036A/B Design Project Part 1 & 2.

6.5.19.3 B.E.(Telecommunications)/B.Ec.

To qualify for the combined award of B.E.(Telecommunications) and B.Ec., candidates are required to complete satisfactorily courses listed below:

Level I

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
MATHS 1011 Mathematics IA 3
MATHS 1012 Mathematics IB 3
MATHS 1013 Mathematics IMA* 3
PHYSICS 1100 Physics IA 3
PHYSICS 1200 Physics IB 3

* See Clause 6.2 regarding Level I Mathematics requirements.

Level II

ECON 1000 Principles of Macroeconomics I 3
ECON 2504 Intermediate Econometrics II 3
ELEC ENG 1010 Electrical & Electronic Engineering IB 3
ELEC ENG 2007 Signals & Systems 3
ELEC ENG 2009 Engineering Electromagnetics ... 3
ELEC ENG 2011 Circuit Analysis 3
MATHS 2201 Engineering Mathematics I 3
MATHS 2202 Engineering Mathematics II 3

Level III

Note: Level III, IV & V are indicative only - for enrolment information continuing students should see: www.ecms.adelaide.edu.au/enrol/guides

COMP SCI 2000 Computer Systems 3
ECON 2506 Intermediate Microeconomics II 3
ECON 2507 Intermediate Macroeconomics II 3
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

Level IV

APP MTH 3016 Telecommunications Systems Modelling III 3
COMMGMT 2500 Organisational Behaviour II 3
COMP SCI 3006 Software Engineering & Project . 3
ELEC ENG 3018 RF Engineering III 3
ELEC ENG 3019A/B Practical Electrical & Electronic Design 3
Plus at least 9 units of Level III Economics courses including an Economic History course 9

Level V

COMP SCI Computer Networks & Applications 3
Electrical & Electronic Engineering courses:
Signal Processing IV .....
ELEC ENG 4036A/B Design Project ^ 6
or
ELEC ENG 4039A/B Honours Project ^ 6
Telecommunications Engineering courses:
Communications IV 3
Reliability & Quality Control 3
Telecommunications IV 3
At least 9 units of Level III Economics courses 9

^ Students accepted into the Honours stream will take ELEC ENG 4039A/B Honours Project and other students will take ELEC ENG 4036A/B Design Project

6.5.19.4 B.E.(Telecommunications)/B.Fin. program

To qualify for the combined award of B.E.(Telecommunications) and B.Fin., candidates are required to complete satisfactorily courses listed below:

Level I

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
MATHS 1011 Mathematics IA 3
MATHS 1012 Mathematics IB 3
MATHS 1013 Mathematics IMA* 3
PHYSICS 1100 Physics IA 3
PHYSICS 1200 Physics IB 3

* See Clause 6.2 regarding Level I Mathematics requirements.

Level II

ECON 1000 Principles of Macroeconomics I 3
ECON 1009 International Finance Institutions & Markets I 3
ELEC ENG 1010 Electrical & Electronic Engineering IB 3
ELEC ENG 2007 Signals & Systems 3
ELEC ENG 2009 Engineering Electromagnetics ... 3
ELEC ENG 2011 Circuit Analysis 3
MATHS 2201 Engineering Mathematics I 3
MATHS 2202 Engineering Mathematics II 3

Level III

Note: Level III & IV are indicative only - for enrolment information continuing students should see: www.ecms.adelaide.edu.au/enrol/guides

ACCTING 1002 Accounting for Decision Makers I 3
COMP SCI 2000 Computer Systems 3

COMP SCI 2004 Data Structures & Algorithms ...3
ECON 2504 Intermediate Econometrics 3
ECON 2508 Financial Economics II.....3
ELEC ENG 2008 Electronics II.....3
Telecommunications Engineering courses:
Digital Systems.....3
Telecommunication Systems Modelling III 3

Level IV

CORPFIN 2500 Business Finance II 3
COMP SCI 3001 Computer Networks & Applications 3
COMP SCI 3006 Software Engineering & Project .3
ELEC ENG 3018 RF Engineering III.....3
Telecommunications Engineering courses:
Practical Electrical & Electronic Design III.....3
Signal Processing III 3
Telecommunications III.....3
Level III Finance Course.....3

Level V

Electrical & Electronic Engineering courses:
Communications IV 3
Telecommunications IV.....3
ELEC ENG 4036A/B Design Project ^.....6
or
ELEC ENG 4039A/B Honours Project ^ 6
Level III Finance Courses.....15

^ Students accepted into the Honours stream will take ELEC ENG 4039A/B Honours Project and other students will take ELEC ENG 4036A/B Design Project

6.5.19.5 B.E.(Telecommunications)/LLB

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

Level I

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
MATHS 1013 Mathematics IMA*.....3
LAW 1501 Foundations of Law 3
LAW 1502 Law of Torts I 3
LAW 1504 Principles of Public Law or equivalent.. 3
LAW 1505 Law of Torts 2 3

* See Clause 6.2 regarding Level I Mathematics requirements.

Level II

COMP SCI 1008 Computer Science IA 3
COMP SCI 1009 Computer Science IB 3
PHYSICS 1100 Physics IA.....3
PHYSICS 1200 Physics IB.....3
Law courses to be advised by Law School 12

Level III

Note: Level III, IV, V & Vlare indicative only - for enrolment information continuing students should see: www.ecms.adelaide.edu.au/enrol/guides

ELEC ENG 2011 Circuit Analysis.....3
MATHS 2201 Engineering Mathematics 1.....3
MATHS 2202 Engineering Mathematics II.....3
ELEC ENG 2007 Signals & Systems.....3
ELEC ENG 2009 Engineering Electromagnetics...3
ELEC ENG 2008 Electronics II.....3
Law courses to be advised by Law School 6

Level IV

APP MTH 3016 Telecommunications Systems Modelling III 3
COMP SCI 2000 Computer Systems 3
COMP SCI 2004 Data Structures & Algorithms 3
Telecommunications Engineering courses:
Digital Systems.....3
Law courses to be advised by Law School 12

Level V

Electrical & Electronic Engineering courses:
COMP SCI 3001 Computer Networks & Applications 3
COMP SCI 3006 Software Engineering & Project .3
Signal Processing III 3
Telecommunications III.....3
ELEC ENG 3018 RF Engineering III.....3
ELEC ENG 3019 A/B Practical Electrical & Electronic Design III.....3
Law courses to be advised by Law School 6

Level VI

Electrical & Electronic Engineering courses:
Communications IV 3
Telecommunications IV.....3
ELEC ENG 4036A/B Design Project ^.....6
or
ELEC ENG 4039A/B Honours Project ^ 6
Law courses to be advised by Law School 12
Plus 24 units of Law courses to be specified by the Law School.

^ Students accepted into the Honours stream will take ELEC ENG 4039A/B Honours Project and other students will take ELEC ENG 4036A/B Design Project

6.5.19.6 B.E.(Telecommunications)/B.Ma.& Comp.Sc.

To qualify for both the award of the degree of B.E.(Telecommunications) and the degree of B.Ma. Comp.Sc. with a Mathematics Major, candidates are required to complete satisfactorily:

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

MATHS 1013 Mathematics IMA* 3

PHYSICS 1100 Physics IA 3

PHYSICS 1200 Physics IB 3

* See Clause 6.2 regarding Level I Mathematics requirements.

Level II

COMP SCI 2000 Computer Systems 3

COMP SCI 2004 Data Structures & Algorithms 3

MATHS 2201 Engineering Mathematics I 3

MATHS 2202 Engineering Mathematics II 3

ELEC ENG 2007 Signals & Systems II 3

ELEC ENG 2008 Electronics II 3

ELEC ENG 2009 Engineering Electromagnetics 3

ELEC ENG 2011 Circuit Analysis 3

Level III

Note: Level III, IV & V are indicative only - for enrolment information continuing students should see: www.ecms.adelaide.edu.au/enrol/guides

COMP SCI 3006 Software Engineering and Project 3

ELEC ENG 3015 Communications Signals and Systems 3

ELEC ENG 3017 Digital Electronics 3

ELEC ENG 3018 RF Engineering III 3

ELEC ENG 3019A/B Practical Electrical & Electronic Design III 3

ELEC ENG 3020 Embedded Computer Systems 3

Levels II or III Maths & Computer Science courses* 6

*Students must present 24 units of new Maths & Computer Science units in additionto the Maths within the engineering degree. See notes in the enrolment guides relating toMajor requirements and see Mathematics course advisers if you wish to undertake coursework in Statistics or Pure Mathematics.

Level IV

APP MTH 3016 Telecommunications Systems Modelling III 3

ELEC ENG 3016 Control III 3

Level III Maths & Computer Science courses 18

Level V

COMP SCI 3001 Computer Networks & Applications 3

Electrical & Electronic Engineering courses:

Communications IV 3

Digital Systems 3

Financial Management for Engineers 3

Management & Professional Practice for Engineers 3

Signal Processing 3

Telecommunications III 3

ELEC ENG 4036A/B Design Project ^ 6

or

ELEC ENG 4039A/B Honours Project ^ 6

^ Students accepted into the Honours stream will take ELEC ENG 4039A/B Honours Project and other students will take ELEC ENG 4036A/B 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 Computational Engineering

- Knowledge and understanding in computational engineering, especially those areas where engineering interfaces with mathematical sciences, and the skills and commitment to maintain that through a lifetime of engineering practice
- Knowledge, content and techniques of computational engineering in an international context
- Apply basic knowledge of the fundamentals of science, engineering and mathematics
- Model real world engineering problems and to provide identifiable options, solutions and viabilities
- Capabilities in effective communication, both verbally and in writing, and to also operate in individual and team environments
- Apply high-level skills in the use of advanced technologies so as to produce practical solutions to real-world problems
- 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 of ethical, social and cultural aspects of humanity.

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 Petroleum Engineering/Mining Engineering

Technical knowledge and application of knowledge skills

- Competence in engineering fundamentals
- Competence in petroleum engineering
- Competence in mining engineering
- Ability to apply an integrative or systems approach to solving engineering problems
- Competence in using computers and information technology effectively
- Awareness of uncertainty and recognising limitations of engineering approaches and systems
- Ability to design processes or systems to solve petroleum engineering problems
- Ability to apply the knowledge of modern valuation and decision-making methods to optimize the use of corporate and personal resources
- 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 and petroleum 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 and petroleum engineering.

Personal skills and attitudes

- Ability to work in teams and interact with colleagues and the public in an ethical, professional and safe manner
- Competence to adapt to a changing society and an appreciation of and an ability to engage in lifelong learning
- 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 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 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 and an Honours degree of Bachelor of Mathematical 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 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.

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4 Qualification requirements

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:

MATHS 2100 Real Analysis.....3

MATHS 2101 Multivariable & Complex Calculus.....3

MATHS 2102 Differential Equations.....3

MATHS 2103 I Probability and Statistics.....3

Electives may be chosen from courses offered by Mathematical Sciences, Computer Science, Humanities and Social Sciences (these will be Advanced level courses), Economics, Commerce and Sciences

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.....18

ii Communication Skills III.....3

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,21 must comprise Level III courses and at most 3may 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 12 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 12 units.

Statistics

Level III courses in Statistics to the value of at least 12 units, including STATS 3001 Statistical Modelling III, and STATS 3006 Mathematical Statistics III, and at least 3 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

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 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

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 for the degree of B.A. and approved by the Faculty Program Adviser.

4.2.1.4 Economics and Commerce courses

Courses listed for the degree of B.Ec. and approved by the Faculty Program Adviser.

4.2.1.5 Science courses

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

4.2.1.6 Design Studies courses

Level I Design Studies courses listed 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 2105 Optimisation and Operations Research 3

MATHS 2104 Numerical Methods 3

Mathematical Physics

PHYSICS 2532 Classical Physics II 3

PHYSICS 2534 Electromagnetism II 3

Mathematics

MATHS 2100 Real Analysis 3

MATHS 2101 Multivariable & Complex Calculus ... 3

MATHS 2102 Differential Equations 3

MATHS 2103 I Probability and Statistics 3

Pure Mathematics

PURE MTH 2106 Algebra 3

Statistics

STATS 2107 Statistical Modelling & Inference 3

4.2.2.2 Computer Science

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 C and C++ 3

COMP SCI 2006 Introduction to Software Engineering 3

4.2.2.3 Humanities and Social Sciences courses

Advanced level courses or Level II language courses listed for the degree of B.A.and approved by the Faculty Program Adviser.

4.2.2.4 Economics and Commerce courses

Courses listed for the degree of B.Ec. and approved by the Faculty Program Adviser.

4.2.2.5 Science courses

Level II Science courses listed 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

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 3

Mathematical Physics

PHYSICS 3004 Quantum Mechanics IIIA..... 3

PHYSICS 3006 Advanced Dynamics and Relativity III 3

PHYSICS 3542 Physics III 6

Pure Mathematics

PURE MTH 3002 Topology and Analysis III 3

PURE MTH 3003 Number Theory 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 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 Maths & Comp Sc courses)

MATHS 3015 Communication Skills III..... 3

MATHS 4003 Industry Practicum (Maths. & Comp. Sc.)..... 3

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

Advanced Level or Level III Language courses listed for the degree of B.A, and approved by the Faculty Program Adviser.

4.2.3.5 Economics and Commerce courses

Courses listed for the degree of B.Ec. and approved by the Faculty Program Adviser.

4.2.3.6 Science courses

Level III Science courses listed 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 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 4.3.1.5 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.

Bachelor of Mathematical and Computer Sciences

1 General

1.1 There shall be a degree of Bachelor of Mathematical and Computer Sciences and an Honours degree of Bachelor of Mathematical and Computer Sciences. A candidate may obtain either degree 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 there from by the Head of the School concerned, again complete the required work in that course to the satisfaction of the teaching staff concerned.

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

4 Qualification requirements

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

4.1.1 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 2105 Mathematics IIM

for the degree, obtaining a Pass standard or higher for each course presented.

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 21 units

e A candidate shall pass Level II and Level III courses to a minimum value of 45 units, with at least 21 units being Level III courses, including MATHS 3015 Communication Skills III.

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 2004 Numerical Methods in Engineering (Chemical).....2

APP MTH 2009 Numerical Analysis & Probability & Statistics 2

APP MTH 2010 Differential Equations and Statistical Methods (Civil).....3

CHEM ENG 1002 Engineering Computing.....3

CHEM ENG 1008 Engineering Computing.....3

STATS 2004 Laplace Transforms & Probability & Statistical Methods.....2

Mathematics courses:

MATHS 2201 Engineering Mathematics I.....3

MATHS 2202 Engineering Mathematics II.....3

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 that 51 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 4.1.2 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 18 units and Level II courses to the value of at most 6 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

Second year course 12 units at Level II

Third year course 18 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 12 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 12 units.

Statistics

Level III courses in Statistics to the value of at least 12 units, including STATS 3001 Statistical Modelling III, and STATS 3006 Mathematical Statistics III, and at least 6 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

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

COMP SCI 1010 Puzzle Based Learning 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 for the degree of B.A. and approved by the Faculty Program Adviser..

4.2.1.3 Economics and Commerce courses

Courses listed for the degree of B.Ec.and approved by the Faculty Program Adviser.

4.2.1.4 Law courses*

LAW 1501 Foundations of Law 3

LAW 1502 Law of Torts 1 3

LAW 1504 Principles of Public Law.....3

LAW 1505 Law of Torts 2* 3

** Available only to students who have been accepted for candidature to the LL.B.*

4.2.1.5 Engineering courses*

Courses listed at Level I of the Bachelor of Engineering and approved by the Faculty Program Adviser.

** Candidates who have been previously enrolled in an Engineering degree at the University of Adelaide are also directed to Academic Program Rule 4.1.4.*

4.2.1.6 Science courses

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

4.2.1.7 Design Studies courses

Level I Design Studies courses listed for the degree of Bachelor of Design Studies

4.2.2 Level II courses

4.2.2.1 Mathematical and Computer Sciences courses

Applied Mathematics

APP MTH 2105 Optimisation and Operations Research 3

MATHS 2104 Numerical Methods.....3

Computer Science

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 C and C++..... 3

COMP SCI 2006 Introduction to Software Engineering.....3

Mathematical Physics

PHYSICS 2532 Classical Physics II.....3

PHYSICS 2534 Electromagnetism II 3

Mathematics

MATHS 2100 Real Analysis 3

MATHS 2101 Multivariable & Complex Calculus...3

MATHS 2102 Differential Equations.....3

MATHS 2103 Probability and Statistics.....3

Pure Mathematics

PURE MTH 2106 Algebra 3

Statistics

STATS 2107 Statistical Modelling & Inference 3

4.2.2.2 Humanities and Social Sciences courses

Advanced Level or Level II Language courses listed for the degree of B.A. and approved by the Faculty Program Adviser.

4.2.2.3 Economics and Commerce courses

Courses listed for the degree of B.Ec; Level II courses listed for the degree of B.Com; Courses for the degree of B.Fin. All Economics and Commerce courses require the approval of the Faculty Program Adviser.

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 4.1.4.

4.2.2.5 Law courses*

LAW 1503 Contracts 3

LAW 1506 Property Law 3

** 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 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 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.....3

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 and 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 and Relativity III.....3

PHYSICS 3542 Physics III 6

Pure Mathematics

PURE MTH 3002 Topology and Analysis III 3

PURE MTH 3003 Number Theory 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 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 Maths & Comp Sc courses)

MATHS 3015 Communication Skills III.....3

MATHS 4003 Industry Practicum (Maths. & Comp. Sc.).....3

4.2.3.3 Humanities and Social Sciences courses

Advanced Level or Level III Language courses listed for the degree of B.A, and approved by the Faculty Program Adviser.

4.2.3.4 Economics and Commerce courses

Courses listed for the degree of B.Ec; Level III courses listed for the degree of B.Com; Courses listed for the degree of B.Fin. All Economics and Commerce courses require the approval of the Faculty Program Adviser.

4.2.3.5 Law courses*

LAW 2501 Australian Constitutional Law

LAW 2502 Equity

LAW 2505 Corporate Law

** 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 ifor 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 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 4.3.1.5 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 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

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 Nursing (Honours)
- 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 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.

2 Enrolment

2.1 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.

2.2 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.

3 Assessment and examinations

3.1 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.

3.2 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.

3.3 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.

3.4 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.

3.5 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.

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

4 Qualification requirements

4.1 Class meetings, 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 class meetings, tutorials and clinical practice, do written and laboratory or other practical work, including playing the role of the patient and chairside assistant, to the satisfaction of the academic staff concerned, and pass the prescribed examinations. Students shall attend clinics of the South Australian Dental Service and other teaching hospitals, and health centres, and accredited dental practices in South Australia and interstate, as required for their clinical instruction.

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

4.2.1 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.

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

4.2.3 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.

4.2.4 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.

4.2.5 No student shall administer treatment to any patient without the approval of an appointed academic staff member or sessional dental educator.

4.2.6 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.

4.2.7 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 or accredited dental practices, and the Senior Dental or Medical Officer under whose care the patient is or has been.

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

4.2.9 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.

4.2.10 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.

4.3 Academic program

4.3.1 Curriculum

4.3.1.1 DENT 1000HO First Annual BDS Examination

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

DENT 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

4.3.1.2 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

4.3.1.3 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

4.3.1.4 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

4.3.1.5 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

4.4 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.

4.5 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.

4.6 Graduation

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

5 Special circumstances

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

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

Graduate Outcomes/Responsibilities

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:

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.

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.

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.

Effectively manage a dental team by:

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

Bachelor of Dental Surgery (cont'd)

Engage in self-directed life-long learning by:

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

Bachelor of 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 6 units for the single degree program, or to a maximum of 3 units for the Health Sciences component for 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 there from 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

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, Business School, 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
PSYCHOL 1002 Exploring Psychology A 3
PSYCHOL 1003 Exploring Psychology B 3

5.1.2 Level II

a PHARM 2100 Drugs, Chemicals & Health 3
PATHOL 2200 Biology of Disease II 3

b Level II Health Sciences courses to the value of 6 units chosen from the following:

ANAT SC 2109 Cells, Tissues & Development II 3

ANAT SC 2200 Functional Human Anatomy II 3

GEN PRAC 2000HO Indigenous Health II 3

PHARM 2200 Drugs, Chemicals & the Environment 3

PSYCHIAT 2200 Emotion, Culture & Medicine II 3

PSYCHOL 2004 Doing Research in Psychology 3

PSYCHOL 2005 Foundations Health & Lifespan Development 3

PSYCHOL 2006 Foundations of Perception & Cognition 3

PSYCHOL 2007 Psychology in Society 3

PUB HLTH 2000 Public Health Inquiry II 3

PUB HLTH 2001 Public Health Sciences II 3

c Level II courses to the value of 12 units from Health Sciences courses listed in 5.1.2(c) above, or from Level II courses offered by the Faculty of Humanities and Sciences, Business School, School of Economics, School of Mathematical and Computer Sciences or Faculty of Sciences available to them+ 12

+ A listing or acceptable courses is available from: www.health.adelaide.edu.au/enrol/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 Sciences courses listed below:

Health Sciences

Anatomical Sciences

ANAT SC 3101 Anthropological and Forensic Anatomy 3

ANAT SC 3102 Comparative Reproductive Biology of Mammals 3

ANAT SC 3103 Integrative and Comparative Neuroanatomy 3

ANAT SC 3104 Structural Cell Biology 3

ANAT SC 3500 Ethics, Science & Society 3

Pathology

PATHOL 3003 General Pathology 6

PATHOL 3100 Topics in Forensic Science 3

PATHOL 3200 Neurological Diseases 3

Pharmacology

PHARM 3010 Pharmacology A III 6

PHARM 3011 Pharmacology B III 6

Psychology

PSYCHOL 3020 Doing Research in Psychology: Advanced 3

PSYCHOL 3021 Health & Lifespan Development Psychology 3

PSYCHOL 3022 Individual Differences, Personality & Assessment 3

PSYCHOL 3023 Perception & Cognition 3

PSYCHOL 3024 Psychology in Society: Advanced 3

PSYCHOL 3025 Psychology, Ideas & Action 3

Public Health

PUB HLTH 3119HO Public Health Internship III 6

PUB HLTH 3122 International Health III 3

PUB HLTH 3500EX Rural Public Health III 3

PUB HLTH 3501 Epidemiology in Action III 3

PUB HLTH 3502 Epidemiology & Biostatistics III 3

PUB HLTH 3503 Public Health Theory & Practice III 3

PUB HLTH 3504 Protecting and Promoting Health III 3

Other Health Sciences

MICRO 3003 Medical Microbiology & Immunology III 6

OB&GYNAE 3000 Human Reproductive Health III 6

b The completion of a major in an area of study offered by either the Faculty of Health 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 at Level III of courses from within a single discipline or from a recognized interdisciplinary stream.

A major in public health consists of 9 units from Level III courses in public health, with the additional proviso that at least one course is from the 'policy-oriented 'group and at least one is from the 'epidemiology-oriented' group.

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 & Comparative Neuroanatomy 3

PATHOL 3200 Neurological Diseases 3

PHYSIOL 3001 Neurobiology III 6

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 no more than 12 units of courses at Level III offered outside of the Faculty of Health Sciences by the Business School, School of Economics, School of Law*, School of Mathematical and Computer Sciences, the Faculty of Sciences, or Advanced Level courses from the Faculty of Humanities and Social Sciences.+.

* Candidates for the Bachelor of Health Sciences may only undertake Law courses if they are also candidates for the Bachelor of Laws.

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

5.1.4 a A candidate may substitute appropriate courses chosen from Level II to fulfil the non-core (ie. elective) course requirements at Level I, or from Level III to fulfil the non-core course requirements at Level I or II.

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

5.2 Cross-institutional study

With prior approval of the Faculty, students may study courses offered at Bachelor degree level or higher by other universities as cross-institutional students, subject to the following provisions:

5.2.1 Students must complete all core courses as specified in 5.1 at the University of Adelaide.

5.2.2 The following limits shall apply:

Level I: 12 units of cross-institutional studies in any discipline.

Level II or 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 400 0A/B Honours Biochemistry

DENT 4100 AHO/BHO Honours Dentistry

GENETICS 4005 A/B Honours Genetics

MEDICINE 4000 AHO/BHO Honours Medicine

MICRO 4000 A/B Honours Microbiology & Immunology

OB&GYNAE 4000 AHO/BHO Honours Obstetrics & Gynaecology

ORT&TRAU 4000 AHO/BHO Honours Orthopaedics & 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 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 Double degree programs

6.1 Status granted in double 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 undertakes Law Studies concurrently with Health Sciences may present 8 units at Level II and 12 units at Level III of Law courses in lieu of electives for the Bachelor of Health Sciences. A candidate who gains entry to Law in 2003 or later may present 3 units of Law courses at Level I, 8 units at Level II and 12 units at Level III in lieu of electives for the Bachelor of Health Sciences.

6.1.2 Bachelor of Health Sciences/ Bachelor of Social Sciences

The Bachelor of Health Sciences may be undertaken 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

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 & 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 required for the completion of a Social Science major sequence as defined by the Academic Program Rules for the Bachelor of Social Science

Level II

c GEST 2032 Social Science Techniques.....3
PATHOL 2200 Biology of Disease II 3
PHARM 2100 Drugs, Chemicals & Health 3

d Advanced Level courses to the value of 9 units chosen from those required for the completion of a Social Science major sequence as defined by the Academic Program Rules for the Bachelor of Social Science

e Level II courses to the value of 6 units chosen from those listed in 5.1.2 (b) for the Bachelor of Health Sciences.

Level III & IV

24 units for each award separately as follows:

Bachelor of Social Sciences

f Advanced Level courses to the value of 9 units chosen from those required for the completion of a Social Science major sequence as defined by the Academic Program Rules for the Bachelor of Social Science

g Advanced Level courses to the value of 12 units which include Ethnography: Engaged Research, Social Theory in Action, a Social Issues course, and an Applied Social Science course.

Bachelor of Health Sciences

h Level III courses to the value of at least 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 as defined in 5.1.3 (b) or that constitute an interdisciplinary stream as defined in 5.1.3 (c).

i Candidates are able to present no more than 12 units of courses from the Health Sciences Courses at Level III listed in 5.1.3(a), or from Level III courses offered by the Business School, the School of Economics, the School of Mathematical and Computer Sciences, the Faculty of Sciences, or Advanced Level courses offered by the Faculty of Humanities and Social Sciences.

6.1.3 Bachelor of Health Sciences/Bachelor of Mathematical & 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 who complete the requirements for both degrees are awarded two degrees and two parchments.

This double program has two pathways dependent on the students' level of achievement in SACE Stage 2 Mathematical Studies and Specialist Mathematics.

Students who have successfully completed SACE Stage 2 Mathematical Studies and Specialist Mathematics or equivalent will follow the Maths IA pathway. Students without SACE Stage 2 Specialist Mathematics or equivalent are required to follow the Maths 1MA pathway.

In both pathways, the Health Sciences courses remain the same.

6.1.3.1 Academic program

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

a ANAT SC 1102 Human Biology IA.....3
ANAT SC 1103 Human Biology IB.....3
MATHS 1011 Mathematics IA.....3
MATHS 1012 Mathematics IB.....3
PUB HLTH 1001 Public Health IA.....3
PUB HLTH 1002 Public Health IB.....3

b Level I courses to the total value of 6 units from Mathematical Sciences, Computer Science, Humanities and Social Sciences, Economics, Commerce, Engineering, Science, Design Studies

Level II

c PATHOL 2200 Biology of Disease II.....3
PHARM 2100 Drugs, Chemicals & Health 3
PUB HLTH 2001 Public Health Sciences II.....3

d Any Approved Level II Health Sciences course to the total value of 3 units

e Level II courses to the total value of 12 units from Mathematical Sciences and Computer Science

Level III

f Any combination of Level III Health Sciences courses to the total value of 12 units*

g Level III courses to the total value of 12 units from Mathematical Sciences and Computer Science

Level IV

h Any combination of Level III Health Sciences courses to the total value of 12 Units*

i Level III courses to the total value of 12 units from Mathematical Sciences and Computer Science

* 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 IMA pathway, a student shall present passes in courses to the equivalent 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
MATHS 1011 Mathematics IA.....3
MATHS 1012 Mathematics IB.....3
MATHS 1013 Mathematics IMA 3
PUB HLTH 1001 Public Health IA.....3
PUB HLTH 1002 Public Health IB.....3

b Level I courses to the total value of 3 units from Mathematical Sciences, Computer Science, Humanities and Social Sciences, Economics, Commerce, Engineering, Science, Design Studies

Level II

c PATHOL 2200 Biology of Disease II.....3
PHARM 2100 Drugs, Chemicals & Health 3
PUB HLTH 2001 Public Health Sciences II.....3

d Any Approved Level II Health Sciences courses to the total value of 3 units

e Level II courses to the total value of 12 units from Mathematical Sciences and Computer Science

Level III

f Any combination of Level III Health Sciences courses to the total value of 12 units*

g Level III courses to the total value of 12 units from Mathematical Sciences and Computer Sciences

Level IV

h Any combination of Level III Health Sciences courses to the total value of 12 units*

i Level III courses to the total value of 12 units from Mathematical Sciences and Computer Science

* The combination of Health Sciences courses must include a major sequence of study from a single discipline or from a recognised interdisciplinary stream.

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.

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.

Bachelor of Medicine and Bachelor of Surgery

1 Duration of program

1.1 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.

1.2 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.

1.3 Students wishing to interrupt their studies in accordance with 1.2(b) above must obtain beforehand the approval of the Executive Dean on behalf of the Faculty for leave of absence for a defined period.

1.4 A student who leaves the program without approval or who extends a leave of absence beyond the time period approved under 1.2(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.

1.5 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

2 Enrolment

2.1 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.

3 Assessment and examinations

3.1 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.

3.2 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.

3.3 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.

3.4 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.

3.5 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.

3.6 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.

4 Qualification requirements

4.1 Program of study and examinations

4.1.1 To qualify for the degrees of Bachelor of Medicine and Bachelor of Surgery, a candidate shall complete the requirements of the six Examinations by:

a regularly attending lectures and PBL sessions

b satisfactorily participating in tutorial, practical and project work, clinical programs and attachments *and*

c satisfactorily completing the range of assessment tasks, including examinations, that are prescribed in the Syllabus for each of the courses of the Examinations as set out in 4.2.

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.

4.1.2 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.

4.1.3 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 4.2 below.

4.2 Academic program

4.2.1 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

Semester 2

BIOLOGY 1201MED Biology I: Human Perspectives....3

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 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 5014 AHO/BHO Anaethesia, Pain Medicine & Intensive Care V 2

MEDIC ST 6000 Final Sixth Year Assessment

MEDIC ST 6009 AHO/BHO Medicine Internship & Common Program VI 4

MEDIC ST 6010 AHO/BHO Surgery Internship VI & Specials Week VI 4

MEDIC ST 6011 AHO/BHO Emergency Department Internship VI 4

MEDIC ST 6012 AHO/BHO Medicine/Surgery SCAP VI 4

MEDIC ST 6013 AHO/BHO Primary Care SCAP VI 4

MEDIC ST 6014 AHO/BHO Psychiatry SCAP VI 4

4.3 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.

4.4 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.

4.5 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.

5 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.

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.

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.
- 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

Bachelor of Medicine & Bachelor of Surgery (cont'd)

- 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.

1 Duration of program

The program of study shall extend over three years of full time study.

2 Admission

2.1 The admission requirements for the degree are subject to selection procedures currently operating in the Discipline.

2.2 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.

2.3 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.

2.4 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 may not be permitted to complete the Bachelor of Nursing, Bachelor Medicine and Bachelor of Surgery, Bachelor of Dental Surgery or other clinical programs offered by the Faculy 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.

3 Assessment and examinations

3.1 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 clinical practice prescribed for it. A candidate who is not eligible to attend for examination shall be deemed to have failed the examination.

3.2 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.

3.3 Before presenting for the examination again, attend again the parts of study and practice leading to that examination as the Faculty may direct.

3.4 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.

3.5 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.

3.6 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.

3.7 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.

3.8 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.

3.9 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 Discipline 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.

4 Qualification requirements

4.1 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.

4.1.1 Level I

Semester 1

Human Sciences IA 6

Nursing Practice IA 6

Semester 2

Human Sciences IB 6

Nursing Practice IB 6

4.1.2 Level II

Semester 1

Human Sciences IIA 6

Nursing Practice IIA 6

Semester 2

Human Sciences IIB 6

Nursing Practice IIB 6

4.1.3 Level III

Semester 1

Human Sciences IIIA 6

Nursing Practice IIIA 6

Semester 2

Human Sciences IIIB 6

Nursing Practice IIIB 6

4.2 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.

4.3 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.

4.4 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.

4.4.1 Uniform

During their nursing practice placements students will be required to comply with the Discipline of Nursing dress standards.

4.5 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.

5 Rules for the admission of nursing students to the practice of the teaching hospitals, health centres

5.1 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.

5.2 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.

5.3 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.

5.4 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.

5.5 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.

5.6 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.

5.7 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.

5.8 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.

5.9 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.

5.10 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.

5.11 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.

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 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.

1 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.

2 Enrolment

2.1 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.

2.2 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.

3 Assessment and examinations

3.1 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.

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, clinical, practical and examination work.

3.3 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.

3.4 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.

3.5 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.

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

4 Qualification requirements

4.1 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, including playing the role of the patient and chairside assistant, to the satisfaction of the academic staff concerned, and pass the prescribed examinations. Students shall attend clinics of the South Australian Dental Service and other teaching hospitals, and health centres, and accredited dental practices in South Australia and interstate, as required for their clinical instruction.

4.2 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 1204AHO/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 IIOH Part 1 & 2 12

ORAL HLTH 2203 AHO/BHO Human Biology IIOH Part 1 & 2 4

ORAL HLTH 2204 AHO/BHO General Studies IIOH 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 IIIOH Part 1 & 2 8

ORAL HLTH 3202 AHO/BHO Clinical Practice IIIOH Part 1 & 2 12

ORAL HLTH 3204 AHO/BHO Oral Health Electives IIIOH Part 1 & 2 4

4.3 Rules for admission of Dental School students to the practice of the South Australian Dental Service and other teaching hospitals and health centres

4.3.1 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.

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

4.3.3 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.

4.3.4 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.

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

4.3.6 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.

4.3.7 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.

4.3.8 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.

4.3.9 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.

4.3.10 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.

4.4 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.

4.5 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.

4.6 Graduation

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

5 Special circumstances

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

Graduate Attributes

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 Duration of Program

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

2 Admission Requirements

2.1 Status, exemption and credit transfer

2.1.1 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.

2.1.2 Candidates may be permitted to count towards the degree courses which have been passed in another degree program, up to a maximum value of 30 units. This will include up to 18 units at Level I and 12 units at Level II. No Level III units may be presented.

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 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.

3.3 Candidates who have been made an offer for the Honours year and who have studied three years of a Bachelor of Psychological Science will be permitted to enter the Bachelor of Psychology (Honours) program by internal transfer. If the candidate to the Bachelor of Psychology (Honours) has graduated from their program, they must surrender their certificate

4 Qualification requirements

4.1 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 I courses to the value of 24 units

b Level II courses to the value of 24 units

c Level III courses to the value of 24 units, which must include:

as stipulated in 4.2 below.

4.2 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 of the degree of Bachelor of Health Sciences.

Humanities and Social Sciences

Level I courses listed under Specific Academic Program Rule 5.1 of the degree of Bachelor of Arts and Specific Academic Program Rule 4.1 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.

Sciences

Level I Courses listed under Academic Program Rule 5.5 of the degree of Bachelor of Science.

Level II

PSYCHOL 2004 Doing Research In Psychology: Research Design, Methods & Analysis 3

PSYCHOL 2005 Foundations of Health & Lifespan Developmental Psychology 3

PSYCHOL2006 Foundations of Perception & Cognition 3

PSYCHOL 2007 Psychology in Society 3

plus other Level II 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

Advanced Level or Level II Language courses listed under Specific Academic Program Rule 5.1 of the degree of Bachelor of Arts and Specific Academic Program Rule 4.1 of the degree of Bachelor of Social Sciences.

Mathematical and Computer Sciences

Level II 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.

Sciences

Level II Courses listed under Academic Program Rule 5.5 of the degree of Bachelor of Science.

Level III

PSYCHOL 3020 Doing Research In Psychology: Advanced Research Design, Methods & Analysis 3

PSYCHOL 3021 Health & Lifespan Developmental Psychology 3

PSYCHOL 3022 Individual Differences, Personality & Assessment 3

PSYCHOL 3023 Perception, Cognition & Neuropsychology.....3

PSYCHOL 3024 Psychology in Society: Advanced 3

PSYCHOL 3025 Psychology, Ideas and Action 3

plus

other Level III courses from the list below to the value of at least 6 units:

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

Advanced Level or Level III Language courses listed under Specific Academic Program Rule 5.1 of the degree of Bachelor of Arts and Specific Academic Program Rule 4.1 of the degree of Bachelor of Social Sciences.

Mathematical and Computer Sciences

Level III 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.

Sciences

Level III Courses listed under Academic Program Rule 5.5 of the degree of Bachelor of Science.

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 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 Medical Science (Honours)

1 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.

2 Admission requirements

2.1 Before admission to a program of study for the degree a candidate shall have:

(a) passed the Third Year Examination for the degrees of Bachelor of Medicine and Bachelor of Surgery

(b) been accepted by the Head of School and Head of Discipline concerned as a suitable candidate for advanced work in the course he/she wishes to pursue *and*

(c) completed such prerequisite work as the Head of School and Head of Discipline concerned may prescribe.

2.2 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 2.1(a).

3 Assessment and examinations

3.1 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.

3.2 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.

3.3 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.

4 Qualification requirements

4.1 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

4.2 The program comprises three equally important aspects undertaken concurrently:

a Program of Reading in selected fields, and the submission of a series of essays associated therewith.

b Experimental work covering a wide range of techniques

c The undertaking of a research project which will be assigned early in the program and on which a thesis must be submitted.

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.

Bachelor of Nursing (Honours)

1 Duration of Program

1.1 The program of study for the Bachelor degree shall extend over one year full-time study or two years part-time study.

2 Admissions requirements

2.1 An applicant for admission to the program of study for the Bachelor of Nursing (Honours) shall:

a be registered, or be eligible for registration, as a nurse in South Australia *and*

b have qualified for a degree of Bachelor of Nursing of a university accepted for the purposes by the University *and*

c obtained a Grade Point average of at least 5.0 (credit average) or equivalent.

Applicants will also be required to attend a meeting to discuss their application and chosen topic with the Honours Coordinator and potential supervisor.

2.2 The Faculty may, subject to such conditions as it sees fit to impose in each case, accept as a candidate for the Honours program a person who does not satisfy the requirements of Rule 3.1 but who has presented evidence satisfactory to the Faculty of fitness to undertake work for the program.

3 Assessment and examinations

3.1 A candidate who satisfies the requirements for Honours shall be awarded the Honours degree, but the Faculty shall decided 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 Qualification requirements

4.1 Academic program

The program of study for the degree, comprising 24 units in total, will be:

NURSING 4000AHO/BHO Nursing Honours.....24

4.2 The program comprises of three equally important aspects undertaken concurrently:

a Program of reading in selected fields and the submission of an essay 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.

4.3 Joint GNP Honours Program

Nurses who undertake their Graduate Nurse Program year with the Royal Adelaide Hospital may also apply to undertake Honours with the University of Adelaide.

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.

6 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 Nursing (Honours)

The Bachelor of Nursing (Honours) program seeks to produce a graduate who has well-founded, research and evidence based knowledge in a relevant nursing field of study that has provided the graduate with an opportunity to learn and use valuable research methodologies, analytic skills and evaluation techniques and have industry-based insight.

A Nursing Honours student would be particularly distinguished by the following attributes:

- In-depth knowledge of their chosen field of study
- A basic understanding of the varying approaches to research in nursing
- The ability to identify problems, create solutions, innovate and improve current practices
- The ability to collect, analyse and organise information and ideas and to convey those ideas clearly and fluently
- A clear insight into other research based programs offered by the Discipline of Nursing.

Bachelor of Psychology (Honours)

1 Duration of Program

1.1 The program of study shall extend over four years of full-time study or part-time equivalent.

2 Admission Requirements

2.1 Status, exemption and credit transfer

2.1.1 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.

Credit will not be allowed for the Level IV course.

2.1.2 Candidates may be permitted to count towards the degree courses which have been passed in another degree program, up to a maximum value of 36 units. This will include up to 18 units at Level I, 12 units at Level II and 6 units at Level III. No Level IV units may be presented.

2.1.3 Candidates who have been made an offer for the Honours year and studied three years of a Bachelor of Psychological Science or who have studied three years of a Psychology major under a different program and with 18 units of Psychology at Level III will be permitted to enter the Bachelor of Psychology (Honours) program by internal transfer.

If the candidate to the Bachelor of Psychology (Honours) has graduated from their respective program, they must surrender their certificate.

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 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.

3.3 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.

3.4 The examination for Level IV will consist of written papers and a thesis on the research project.

3.5 Review of academic progress

3.5.1 A candidate who does not maintain 70% or above in Level I, II, and III Psychology courses may not proceed in the Bachelor of Psychology (Honours) program, but may apply to transfer to the Bachelor of Psychological Science or another degree program.

4 Qualification requirements

4.1 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 I courses to the value of 24 units

b Level II courses to the value of 24 units

c Level III courses to the value of 24 units

d Level IV courses to the value of 24 units

All other components (a total of 72 units), as stipulated in 4.2 below, must be completed before undertaking the Fourth Year of the program.

4.2 Academic Program

Level I

PSYCHOL 1000 Psychology IA.....3

PSYCHOL 1001 Psychology IB.....3

plus courses to the value of 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 Specific Academic Program Rule 5.1 of the degree of Bachelor of Arts and Specific Academic Program Rule 4.1 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.

Sciences

Level I Courses listed under Academic Program Rule 5.5 of the degree of Bachelor of Science.

Level II

PSYCHOL 2004 Doing Research In Psychology: Research Design, Methods & Analysis 3

PSYCHOL 2005 Foundations of Health & Lifespan Developmental Psychology 3

PSYCHOL 2006 Foundations of Perception & Cognition 3

PSYCHOL 2007 Psychology in Society 3

plus other Level II 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

Advanced Level or Level II Language courses listed under Specific Academic Program Rule 5.1 of the degree of Bachelor of Arts and Specific Academic Program Rule 4.1 of the degree of Bachelor of Social Sciences.

Mathematical and Computer Sciences

Level II 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.

Sciences

Level II Courses listed under Academic Program Rule 5.5 of the degree of Bachelor of Science.

Level III

PSYCHOL 3020 Doing Research In Psychology: Advanced Research Design, Methods & Analysis.....3

PSYCHOL 3021 Health & Lifespan Developmental Psychology 3

PSYCHOL 3022 Individual Differences, Personality & Assessment 3

PSYCHOL 3023 Perception, Cognition & Neuropsychology 3

PSYCHOL 3024 Psychology in Society: Advanced 3

PSYCHOL 3025 Psychology, Ideas & Action 3

plus other Level III courses from the list below to the value of at least 6 units:

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

Advanced Level or Level III Language courses listed under Specific Academic Program Rule 5.1 of the degree of Bachelor of Arts and Specific Academic Program Rule 4.1 of the degree of Bachelor of Social Sciences.

Mathematical and Computer Sciences

Level III 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.

Sciences

Level III Courses listed under Academic Program Rule 5.5 of the degree of Bachelor of Science.

Level IV

PSYCHOL 4000A/B Honours Psychology.....24

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 Council 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 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.

2 Admission

2.1 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.

2.2 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.

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 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.

4 Qualification requirements

4.1 Academic program

4.1.1 A program of study for the degree may be undertaken in the following discipline:

DENT 4100 AHO/BHO Honours Dentistry

4.1.2 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.

4.1.3 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.

4.2 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.

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.

Academic Program Rules

Faculty of Humanities and Social Sciences

Contents

Undergraduate Awards

- Diploma in Languages
- Degree of Bachelor of Arts
- 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

Notes on Delegated Authority

1. Council has delegated the power to approve minor changes to the Academic Program Rules to the Executive Deans of Faculties.
2. Council has delegated the power to specify syllabuses to the Head of each department or centre concerned, such syllabuses to be subject to approval by the Faculty or by the Executive Dean on behalf of the Faculty.

Diploma in 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 Conceded 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. There shall also be a classification of Conceded Pass. A candidate may not present a Conceded Pass for the Diploma.

5 Qualification requirements

5.1 To qualify for the Diploma in Languages a student shall complete a three-year sequence (as defined in Rule 5.3 below) and satisfy the requirements of an undergraduate degree of the university.

5.2 A student may not have the Diploma in Languages conferred until he or she has satisfied the requirements for the approved undergraduate program.

5.3 Academic program

5.3.1 Language sequence

All students shall complete a three-year language sequence to a total value of 24 units. The sequence shall consist of:

6 units at Level I

9 units at Level II

9 units at Level III

in a single language

5.3.2 Language sequence variation

In certain circumstances this sequence may be varied to consist of:

9 units at Level II

9 units at Level III

6 units of advanced language studies or approved area studies *or*

5.3.3 Chinese

6 units at Level I

6 units at Level II

6 or 9 units at Level III

3 or 6 units Level IIIS (in fourth year of study) *or*

for students who have studied SACE stage 2 Chinese or equivalent:

6 units at Level II

9 units at Level III

9 units at Level IIIS

Note: all units are from language courses. Students can opt to enrol in 3 units of a China-focussed Social Science course in place of one language course.

5.3.4 Japanese

9 units at Level I

6 units at Level II

9 units at Level III *or*

6 units at Level I

9 units at Level II

6 units at Level III

3 units at advanced level

5.3.5 Language availability

The languages available are:

Chinese

French

German

Indonesian

Italian

Japanese

Modern Greek

Spanish

5.3.6 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

Note: Students who commenced their program of study towards the Bachelor of Arts under Specific Course Rules in 1995 or Regulations and Schedules in 1994 or earlier are subject to the following provisions:

- Students will normally complete their course of study under the provisions of the Specific Course Rules as published in 1995.
- Students may be permitted to complete their studies under the current Academic Program Rules for the Bachelor of Arts with such modifications as the Faculty may deem necessary.

Students who commenced their program of study towards the Bachelor of Arts prior to 2008 will normally complete their program of study under the provisions of the Specific Course Rules as published in the 2008 *Undergraduate Calendar*.

1 Duration of program

1.1 The program of study for the Bachelor degree will extend over three years of full-time study or the part-time equivalent.

1.2 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 2.3).

2 Admission

2.1 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:

2.1.1 Complete Bachelor degree studies in any academic discipline

a 12 units at Level I in lieu of the requirements of 4.1.1.1 (b) (or equivalent for the named degrees) *and*

b 12 units at Advanced Level or Level II in lieu of 4.1.1.1 (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.

2.1.1.1 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 4.1.1.2 the major sequence:

a 12 units at Level I in lieu of the requirements of 4.1.1.1 (a) (or equivalent for the named degrees)

b 12 units at Advanced Level or Level II in lieu of 41.1.1 (c) and (d) (or equivalent for the named degrees).

2.1.2 Incomplete Bachelor degree studies in any academic discipline (not covered by 2.1.3 or 2.2)

a 12 units at Level I in lieu of the requirements of 4.1.1.1 (b) (or equivalent for the named degrees) *and*

b 12 units at Advanced Level or Level II in lieu of 4.1.1.1 (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.

2.1.2.1 Where the incomplete degree includes the equivalent of up to 12 units of Humanities and Social Sciences not already included under 2.1.2 (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

d In special circumstances additional status may be granted for degrees completed at other Australian universities.

2.1.2.2 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.

2.1.3 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 Advanced Level or Level II to both degrees, by undertaking courses to a minimum total of 48 units which satisfy the Level I and Advanced Level or Level II requirements of both awards.

Students must then present for each degree courses to the value of 24 units at Advanced Level or Level III (including where relevant a Capstone course) 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.

2.2 Status in formal combined degree arrangements

2.2.1 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 12 units at Level I in lieu of the requirements of 4.1.1.1 (b) (or equivalent for the named degrees) *and*

b 12 units at Advanced Level or Level II in lieu of 4.1.1.1 (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

2.2.2 Bachelor of Economics and Bachelor of Arts, Bachelor of Economic and Bachelor of International Studies, Bachelor of Arts and Bachelor of International Studies, Bachelor of Art and Bachelor of Media, Bachelor of Media and Bachelor of International Studies

A student who undertakes any combination listed above, may count 12 units at each of Level I and Advanced Level or Level II towards both degrees, by undertaking courses to a minimum total of 48 units which satisfy the Level I and Advanced Level or Level II requirements of both awards.

Students must then present for each degree courses to the value of 24 units at Advanced Level or Level III (including where relevant a Capstone course) 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.

2.2.3 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.

A student who undertakes these two degrees may count 12 units at each of Level I and Advanced Level or Level II to both degrees, by undertaking courses to a minimum total of 48 units which satisfy the Level I and Advanced Level or Level II requirements of both awards.

Students must then present for each degree courses to the value of 24 units at Advanced Level or Level III (including where relevant a Capstone course) 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.

2.2.4 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 4.1.1.1 (b) and

b 12 units at Advanced Level or Level II in lieu of 4.1.1.1 (e) i.e. not forming part of the major sequence for the BA.

The Double degree 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.

2.3 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 4.1.1.1 (b) (or equivalent for the named degrees) *and*

b 12 units at Advanced level or Level II in lieu of 4.1.1.1 (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

2.4 Status for prior Technical and Further Education (TAFE) studies

Students who hold a completed Associate Diploma/Diploma from an Institute of Technical and Further Education (TAFE) relating to a Discipline of study in the degree will be granted up to 12 units of status at Level I and up to 6 units of status at Advanced Level or Level II. Status will not normally be awarded for compulsory or Capstone courses.

2.5 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 2.1 above.

2.6 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 5.12.1-5.12.3 Humanities and Social Sciences.

3 Assessment and examinations

3.1 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.

3.2 A candidate who fails or obtains a Conceded 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.

3.3 A candidate who does not complete the required assessment tasks in any course, shall be deemed to have failed the course.

3.4 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. 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 6.5 below.

4 Qualification requirements

4.1 Academic program

4.1.1 Bachelor of Arts

4.1.1.1 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 5.12.1 Humanities and Social Sciences courses, which may form part of a major sequence and a minor sequence of study (see 4.1.1.2 and 4.1.1.3) below.

b Level I courses to the value of 12 units chosen from those listed in 5.12.1 Humanities and Social Sciences courses, or other courses offered by the University at Level I which are available to them.

Advanced Level or Level II

c Courses to the value of 15 units chosen from those listed in 5.12.2 or 5.12.4 Humanities and Social Sciences courses, being the Level II or Advanced Level component of a major and a minor sequence of study (see 4.1.1.2 and 4.1.1.3)

d Courses to the value of 9 units chosen from those listed in 5.12.2 or 5.12.4 Humanities and Social Sciences courses, or other courses offered by the University at Level II or Advanced Level which are available to them

Advanced Level or Level III

e Courses to the value of 15 units (including a Capstone course) chosen from those listed in 5.12.3 or 5.12.4 Humanities and Social Sciences courses, being the Level III or Advanced Level component of a major and a minor sequence of study (see 4.1.1.2 and 4.1.1.3)

f Courses to the value of 9 units chosen from those listed in 5.12.3 or 5.12.4 Humanities and Social Sciences courses at Level III or Advanced Level.

4.1.1.2 Major sequence

24 units of courses must be chosen from one of the following areas of study, to form a 'major sequence' of study. A maximum of 6 units at Level I and at least 18 units of Advanced Level courses, including a Capstone course, with the exception of major sequences from the Elder Conservatorium of Music or other Faculties, or 9 units at Level II and 9 units at Level III must be presented:

Anthropology
Asian Politics & Foreign Policy*
Asian Studies*
Chinese
Classical Studies
Development Studies*
Economics
English
European Studies
French Studies
Gender, Work & Social Inquiry
Geographical & Environmental Studies
German Studies
History
Indonesian
International Studies
Italian
Japanese
Linguistics
Modern Greek
Music Studies
Philosophy
Politics
Psychology
Spanish

* Interdisciplinary areas of study

a Students may choose to undertake a second major in another 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 and Psychology, may require more than a standard major sequence. Students should consult the relevant area for more information.

4.1.1.3 Minor sequence

18 units of courses must be chosen from one of the following areas of study, to form a 'minor sequence' of study. A maximum of 6 units at Level I and at least 12 units of Advanced Level courses or 6 units at Level II and 6 units at Level III must be presented:

Anthropology
Art Theory*
Asian Politics & Foreign Policy*
Asian Studies
Australian Studies*
Biography/History*
Chinese
Classical Studies
Development Studies*
Economics
English
European Studies
Film*
French Studies
Gender, Work & Social Inquiry
Geographical & Environmental Studies
German Studies
Globalisation*
History
Indonesian
International Studies
Italian
Japanese
Linguistics
Medieval & Renaissance Studies*
Modern Greek
Music Studies
Philosophy
Politics
Popular Culture*
Psychology
Religion & Ethics*
Spanish
Work Studies*
Writing Practice

* Interdisciplinary areas of study

Students are required to undertake a minor in a different area of study to that presented for the major.

5 All Degrees

The following rules apply to the Bachelor of Arts and the named degrees, Bachelor of Development Studies, Bachelor of Environmental Policy and Management, Bachelor of International Studies, Bachelor of Media, and Bachelor of Social Sciences.

5.1 Unacceptable combinations of courses

5.1.1 A course cannot be presented twice for the degree.

5.1.2 A course cannot be presented with another course that contains a substantial amount of the same material.

5.1.3 A course cannot be presented in addition to any course listed as an 'incompatible ' combination.

5.2 Repeating courses

5.2.1 A student who repeats a course they have previously failed must again attend lectures and do all assessed work in the course.

5.2.2 A student who wishes to repeat a course they have already passed must enrol in it on a non-award basis.

5.2.3 A student who has twice failed any course may not reenrol 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.

5.3 Cross-institutional study

5.3.1 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 4.1.1.1 (b) (or equivalent for the named degrees) *and*

b 9 units at Advanced Level or Level II in lieu of 4.1.1.1 (d) (or equivalent for the named degrees) i.e. not forming part of the major or minor sequence for the BA or the compulsory courses or approved electives for the named degrees.

5.3.2 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.

5.3.3 Flinders University Language Outreach courses are exempt from the provisions of this rule.

5.4 International exchanges

5.4.1 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 Advanced Level or Levels II and III combined.

5.4.2 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.

5.4.3 International exchanges are exempt from the provisions of 5.3.

5.5 Conceded Passes

A student may present Conceded Passes in a maximum of two 3-unit courses providing that the course is not a Capstone or compulsory course.

5.6 Discipline limits

A student may not present more than 36 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 also applies where a student is undertaking an interdisciplinary major or an interdisciplinary degree.

5.7 Prerequisites

A student may only proceed to a course for which they have completed the prerequisite courses prescribed in the syllabuses.

5.8 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.

5.9 Counting units toward a lower level of the degree

A student may count any course undertaken or status awarded at Advanced Level or Level II to fulfil the requirements of Level I, or at Advanced Level or Level III to fulfil the requirements of Level I or II.

5.10 Review of academic progress

The Faculty may prescribe rules for review of academic progress. Any student who meets the requirements for review will be asked to show cause as to why they should be permitted to continue their studies. Students who cannot adequately explain poor academic performance may have their enrolment cancelled or restricted.

5.11 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.

5.12 Program of study

5.12.1 Level I

Humanities and Social Sciences courses

Anthropology

ANTH 1104 Culture & Society: Foundations of Anthropology 3

ANTH 1105 Anthropology of Everyday Life 3

Asian Studies

ASIA 1101 Introduction to Chinese Society and Culture 3

ASIA 1102 Introduction to Japanese Society and Culture 3

ASIA 1103 Asia and the World 3

Chinese

CHIN 1001 Chinese IA 3

CHIN 1002 Chinese IB 3

CHIN 1013 Classical Chinese Texts for Chinese Speakers 3

CHIN 1014 Chinese Literature & Media for Chinese Speakers 3

Classical Studies

CLAS 1001 From Egypt to Greece: Divine Rulers and Popular Tyrants 3

CLAS 1002 Citizens, Cults & Emperors: Power & Status in Greece & Rome 3

Development Studies

DEVT 1001 Introduction to Development Studies 3

Economics

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

ECON 1010 Introductory Mathematical Econometrics 3

English

ENGL 1101 Introduction to English: Ideas of the Real 3

ENGL 1102 Introduction to English: Gothic 3

ENGL 1104 Professional English (ESL) I 3

ENGL 1105 Film Studies 3

ENGL 1107 Shakespeare 3

European Studies

EUST 1000 Modern Imagination in Europe 3

Faculty Courses

ARTS 1006 ReOrientation: Humanities & Social Sciences at Uni 3

French Studies

FREN 1002 French IA: Beginners' French.....3

FREN 1003 French IB: Beginners' French.....3

FREN 1011 French ISA: Language and Culture....3

FREN 1012 French ISB: Language and Culture....3

Gender, Work and Social Inquiry

GWSI 1001 Social Sciences in Australia 3

GWSI 1002 Image, Text and Representation 3

GWSI 1003 Gender, Work and Society 3

GWSI 1004 Introduction to Gender Studies 3

Geographical and Environmental Studies

GEST 1001 Globalisation, Justice and a Crowded Planet.....3

GEST 1002 Footprints on a Fragile Planet 3

GEST 1003 Thinking Economically.....3

GEST 1004 Population and Environment in Australia 3

German Studies

GERM 1002 German IA: Beginners' German 3

GERM 1003 German IB: Beginners' German 3

GERM 1011 German Studies ISA.....3

GERM 1012 German Studies ISB.....3

History

HIST 1105 Europe, Empire and the World: 1492-1914 3

HIST 1106 The Twentieth Century: A World in Turmoil 3

Indonesian

INDO 1001 Indonesian Introductory A.....3

INDO 1002 Indonesian Introductory B.....3

INDO 1011 Indonesian Introductory SA.....3

INDO 1012 Indonesian Introductory SB.....3

Italian

ITAL 1001 Italian IA.....3

ITAL 1002 Italian IB.....3

Japanese

JAPN 1001 Japanese IA: Beginner I.....3

JAPN 1002 Japanese IB: Beginner II.....3

JAPN 1011 Japanese ISA: Higher Elementary I ...3

JAPN 1012 Japanese ISB: Higher Elementary II ..3

Linguistics

LING 1101 Foundations of Linguistics.....3

LING 1102 Language & Ethnography of Communication.....3

Mathematics

See syllabus entries for Mathematics, in Faculty of Engineering, Computer & Mathematical Sciences section, for available courses.

Modern Greek

MGRE 1001 Modern Greek IA.....3

MGRE 1002 Modern Greek IB.....3

Music Studies

GENMUS 1001 From Elvis to U2 I.....3

GENMUS 1003 Musics of the World I 3

GENMUS 1014 Sound & Media Technology I.....3

GENMUS 1026A/B Perspectives in Music Technology I.....6

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 1003A/B Music Technology I 6

Philosophy

PHIL 1101 Argument and Critical Thinking 3

PHIL 1102 Mind and World 3

PHIL 1103 Morality, Society and the Individual 3

PHIL 1110 Logic I: Beginning Logic.....3

Physics

PHYSICS 1005 Physics, Ideas and Society I.....3

Politics

POLI 1101 Introduction to Australian Politics 3

POLI 1102 Introduction to International Politics ...3

POLI 1103 Justice, Liberty, Democracy: Debates and Directions.....3

POLI 1104 Introduction to Comparative Politics...3

Psychology

PSYCHOL 1000 Psychology IA.....3

PSYCHOL 1001 Psychology IB.....3

Spanish

SPAN 1003 Spanish IA.....3

SPAN 1004 Spanish IB 3

5.12.2 Level II
Humanities and Social Sciences courses

Chinese

CHIN 2201 Chinese IIA.....43

CHIN 2202 Chinese IIB.....43

Classical Languages

AGRE 2020 Ancient Greek IIA 3

CLAS 2101 Beginner's Latin.....3

CLAS 2102 Advanced Latin 3

Economics

ECON 2500 International Trade & Investment Policy II.....3

ECON 2501 Resource & Environmental Economics II 3
ECON 2502 East Asian Economies 3
ECON 2503 Mathematical Economics II 3
ECON 2504 Intermediate Econometrics II 3
ECON 2505 Australian Economic History II 3
ECON 2506 Intermediate Microeconomics II 3
ECON 2507 Intermediate Macroeconomics II 3
ECON 2508 Financial Economics II 3
ECON 2509 Applied Econometrics 3

French Studies

FREN 2201 French IIA: Language 3
FREN 2202 French IIB: Language 3
FREN 2203 French IIA: Culture 3
FREN 2204 French IIB: Culture 3
FREN 2211 French IISA: Language 3
FREN 2212 French IISB: Language 3
FREN 2213 French IISA: Culture 3
FREN 2214 French IISB: Culture 3

German Studies

GERM 2021 German in Germany 3
GERM 2030 German Special Topic II 3
GERM 2203 German IIA: German Language & Society 3
GERM 2204 German IIB: German Language & Society 3
GERM 2211 German IISA German Language & Society 3
GERM 2212 German IISB: German Language & Society 3
GERM 2221 German Cultural Studies IISA 3
GERM 2222 German Cultural Studies IISB 3
GERM 2223 German Cultural Studies IIA 3
GERM 2224 German Cultural Studies IIB 3

Indonesian

INDO 2101 Indonesian Intermediate A 3
INDO 2102 Indonesian Intermediate B 3
INDO 2103 Indonesian Intermediate C: Culture 3
INDO 2211 Indonesian Intermediate SA 3
INDO 2212 Indonesian Intermediate SB 3
INDO 2213 Indonesian Intermediate SC 3

Italian

ITAL 2101 Italian IIA: Language 3
ITAL 2102 Italian IIB: Language 3
ITAL 2111 Italian IIA: Culture 3
ITAL 2112 Italian IIB: Culture 3

Japanese

JAPN 2201 Japanese 2A: Lower Elementary I 3
JAPN 2202 Japanese 2B: Lower Elementary II 3
JAPN 2211 Japanese 2SA: Intermediate I 3
JAPN 2212 Japanese 2SB: Intermediate II 3
JAPN 2213 Japanese 2SB: Practical Japanese 3

Mathematics

See syllabus entries for Mathematics for available courses.

Modern Greek

MGRE 2101 Modern Greek IIA: Language 3
MGRE 2102 Modern Greek IIB: Language 3
MGRE 2111 Modern Greek IIA: Culture 3
MGRE 2112 Modern Greek IIB: Culture 3

Music Studies

GENMUS 2005 Music Media & Contemporary Society II/III 3
GENMUS 2026A/B Perspectives in Music Technology II 6
MUSCORE 2005 Western Music in Theory & Practice IIA: 1750-1850 3
MUSCORE 2006 Western Music in Theory & Practice IIB: 1750-1850 3
MUSST 2001 Approaches to Music IIA 3
MUSST 2002 Approaches to Music IIB 3
MUSTECH 2003A/B Music Technology II 6

Psychology

PSYCHOL 2004 Doing Research in Psychology: Research Design, Methods & Analysis 3
PSYCHOL 2005 Foundations of Health & Lifespan Developmental Psychology 3
PSYCHOL 2006 Foundations of Perception & Cognition 3
PSYCHOL 2007 Psychology in Society 3

Spanish

SPAN 2101 Spanish IIA (Intermediate) 3
SPAN 2102 Spanish IIB (Intermediate) 3
SPAN 2112 Introduction to the Culture of Spain 3

5.12.3 Level III

Humanities and Social Sciences courses

Chinese

CHIN 3201 Chinese IIIA 3
CHIN 3202 Chinese IIIB 3
CHIN 3203 Chinese IIIB: Project 3
CHIN 3211 Chinese IIISA 3
CHIN 3212 Chinese IIISB 3
CHIN 3213 Chinese IIISA: Project 3
CHIN 3221 Chinese Translation for Chinese Speakers 3
CHIN 3222 Chinese Translation for Chinese Speakers: Project 3
CHIN 3231 Issues in Chinese Culture for Chinese Speakers 3

CHIN 3232 Research Project for Chinese Speakers 3

Classical Languages

LATN 3002 Latin IIIA 6

LATN 3003 Latin IIIB 6

Economics

ECON 3500 Resource & Environmental Economics III 3

ECON 3501 Development Economics III 3

ECON 3502 Topics in Applied Econometrics III 3

ECON 3503 Strategic Thinking III 3

ECON 3504 Labour Economics III 3

ECON 3505 Environmental Economics E III 3

ECON 3506 International Trade III 3

ECON 3507 Econometric Theory III 3

ECON 3508 Public Economics III 3

ECON 3509 International Economic History III 3

ECON 3510 International Finance III 3

ECON 3511 Money, Banking & Financial Markets III 3

ECON 3512 Public Finance III 3

ECON 3514 Advanced Macroeconomics III 3

ECON 3515 Time Series Econometrics III 3

French Studies

FREN 3201 French IIIA: Languag 3

FREN 3202 French IIIB: Language 3

FREN 3203 French IIIA: Culture 3

FREN 3204 French IIIB: Culture 3

FREN 3211 French IIISA: Language 3

FREN 3212 French IIISB: Language 3

FREN 3213 French IIISA: Culture 3

FREN 3214 French IIISB: Culture 3

German Studies

GERM 3021 German in Germany 3

GERM 3030 German Special Topic Level III 3

GERM 3203 German IIIA: German Language & Society 3

GERM 3204 German IIIB: German Language & Society 3

GERM 3211 German IIISA: German Language & Society 3

GERM 3212 German IIISB: German Language & Society 3

GERM 3221 German Cultural Studies IIISA 3

GERM 3222 German Cultural Studies IIISB 3

GERM 3223 German Cultural Studies IIIA 3

GERM 3224 German Cultural Studies IIIB 3

Indonesian

INDO 3101 Indonesian Advanced A 3

INDO 3102 Indonesian Advanced B 3

INDO 3103 Indonesian Advanced C 3

INDO 3211 Indonesian Advanced SA 3

INDO 3212 Indonesian Advanced SB 3

INDO 3213 Indonesian Advanced SC: Culture 3

Italian

ITAL 3101 Italian IIIA: Language 3

ITAL 3102 Italian IIIB: Language 3

ITAL 3111 Italian IIIA: Culture 3

ITAL 3112 Italian IIIB: Culture 3

Japanese

JAPN 3201 Japanese 3A: Higher Elementary I 3

JAPN 3202 Japanese 3B: Higher Elementary II 3

JAPN 3203 Japanese 3B: Practical Japanese 3

Mathematics

See syllabus entries for Mathematics for available courses.

Modern Greek

MGRE 3101 Modern Greek IIIA: Language 3

MGRE 3102 Modern Greek IIIB: Language 3

MGRE 3111 Modern Greek IIIA: Culture 3

MGRE 3112 Modern Greek IIIB: Culture 3

Music Studies

GENMUS 3011 Village Voices: Greenwich in the 1960s III 3

GENMUS 3013 Music & Ideology II/III 3

GENMUS 3026A/B Perspectives in Music Technology III 6

MUSCORE 3005 Western Music in Theory & Practice IIB: 1750-1850 3

MUSST 3001 Approaches to Music III 3

MUSST 3003 Aboriginal Music In Australia II/III 3

MUSST 3005 Foundation for Honours III 3

MUSST 3012 The String Quartets of Bartok III 3

MUSST 3014 Rhythm in the 20th Century III 3

MUSTECH 3003A/B Music Technology III 6

Psychology

PSYCHOL 3020 Doing Research in Psychology: Advanced Research Design, Methods & Analysis 3

and 3 of the following (for students undertaking a major sequence in Psychology)

PSYCHOL 3021 Health & Lifespan Developmental Psychology 3

PSYCHOL 3022 Individual Differences, Personality & Assessment 3

PSYCHOL 3023 Perception and Cognition 3

PSYCHOL 3024 Psychology in Society: Advanced 3

PSYCHOL 3025 Psychology, Ideas & Action 3

5.12.4 Advanced Level Courses

Anthropology

ANTH 2036 Anthropology of Conflict & Crisis 3

ANTH 2037 Anthropology of Emotion, Mind, & Person 3

ANTH 2038 Anthropology of Health & Medicine .. 3

ANTH 2040 Ethnography: Engaged Social Research 3

ANTH 2041 Popular Culture: Passion, Style, Vibe.. 3

ANTH 2042 Consuming Passions: Anthropology of Food & Drink 3

ANTH 2046 Critical Fields: Australia & Global Thinking 3

Asian Studies

ASIA 2018 Australia & the Asia-Pacific 3

ASIA 2020 Cultures & Identities in Contemporary Japan 3

ASIA 2021 Cultures & Identities in Contemporary China 3

ASIA 2024 Asian Giants: Japan, China & India 3

ASIA 2025 Reorientating Asia: Popular Voices & Sustainability 3

Classical Studies

CLAS 2023 Poetry and the Passions in Antiquity.. 3

CLAS 2024 Ancient Medicine & its Legacy 3

CLAS 2025 Europe from Late Antiquity to Early Middle Ages 3

CLAS 2026 Eastern Mediterranean Archaeological Field School 3

CLAS 2027 Egypt, Greece & the Aegean 3

Development Studies

DEVT 2100 Poverty and Social Development 3

DEVT 2101 Community, Gender and Critical Development 3

English

ENGL 2041 The Sixties: From the Beat to Bongs.. 3

ENGL 2042 Icons of Decadence 3

ENGL 2043 Medieval English Literature 3

ENGL 2044 Renaissance Writing 3

ENGL 2045 The Short Story 3

ENGL 2046 English for Professional Purposes 3

ENGL 2047 World Literatures in English 3

ENGL 2048 Adaptation 3

ENGL 2049 Contemporary Australian Culture 3

ENGL 2051 Literature & Society in Victorian Britain 3

ENGL 2053 Writing & Reconciliation 3

European Studies

EUST 2111 Opera as Idea and Ideal 3

EUST 2112 Great Literary Texts of Western Civilisation 3

Faculty Courses

ARTS 2001 Arts Internship 6

EXCHANGE 1003 H&SS International Exchange - HUMSS 3

EXCHANGE 1006 H&SS International Exchange - HUMSS 6

EXCHANGE 1009 H&SS International Exchange - HUMSS 9

EXCHANGE 1012 H&SS International Exchange - HUMSS 12

French Studies

FREN 2022 French Mentoring Program 3

Gender, Work and Social Inquiry

GWSI 2102 Gender, Bodies & Health 3

GWSI 2105 Gender & Race in a Post-Colonial World 3 .....

GWSI 2105EX Gender & Race in a Post-Colonial World (External) 3

GWSI 2107 Media & Social Change 3

GWSI 2107EX Media & Social Change 3

GWSI 2108 Popular Media & Society 3

GWSI 2108EX Popular Media & Society 3

GWSI 2110 Social Research 3

Geographical and Environmental Studies

GEST 2029 Introductory Geographic Information Systems 3

GEST 2030 Managing Coastal Environments 3

GEST 2032 Social Science Techniques 3

GEST 2033 Global International Migration 3

GEST 2034 Resource Scarcity & Allocation 3

GEST 2035 Urban Futures 3

GEST 2037 Biogeography & Biodiversity Conservation 3

GEST 2039 Environmental Management 3

GEST 2041 Environment and Development 3

GEST 2042 Climate Change and Catchment Management 3

GEST 2200 Environmental Policy & Management Internship 6

History

HIST 2052 Migrants, Refugees & the Making of Modern Australia 3

HIST 2053 Medieval Europe: The Crusades to the Black Death 3

HIST 2055 Food & Drink in World History 3

HIST 2056 America, Asia & the Cold War 3

HIST 2057 Fascism & National Socialism.....3

HIST 2061 The Pursuit of Happiness 3

HIST 2062 Modern America: From Blues to Hip Hop 3

HIST 2068 Uniting the Kingdoms: Britain 1534-1707.....3

HIST 2069 Heresy and Witchcraft in Medieval Europe.....3

HIST 2070 History of the Indigenous Peoples of Australia B 3

HIST 2071 The Origins of Modern America.....3

HIST 2076 Portraiture and Power.....3

Linguistics

LING 2036 Language, Communication & Society.3

LING 2038 Cross-Cultural Communication 3

LING 2039 Reclaiming Languages: A Kaurna Case Study.....3

LING 2040 Phonology.....3

Philosophy

PHIL 2029 Beauty: Pleasures & Principles.....3

PHIL 2030 Cognitive Science: Minds, Brains & Computers.....3

PHIL 2035 Foundations of Modern Philosophy 3

PHIL 2036 How Should I Live? Contemporary Ethical Theories 3

PHIL 2038 Logic II.....3

PHIL 2039 Mental Representation, Consciousness & Self.....3

PHIL 2042 Moral Problems 3

PHIL 2045 Professional Ethics 3

PHIL 2047 Reality & Knowledge.....3

Politics

POLI 2100 Intelligence & Security after the Cold War.....3

POLI 2102 The Politics of Sexuality 3

POLI 2104 Incredible India: Dynamics of a Rising World Power.....3

POLI 2105 Issues in Australian Politics.....3

POLI 2106 Justice, Virtue & the Good.....3

POLI 2107 Passions & Interests: The History of Greed 3

POLI 2108 Post-Cold War International Relations.. 3

POLI 2109 The Ethics of War & Peace 3

POLI 2110 Politics, Power and Popular Culture 3

POLI 2111 Understanding Modern Europe.....3

POLI 2112 South Australian Parliamentary Internships 6

POLI 2113 Governing Greater China 3

POLI 2118 Comparative Politics of Leadership.....3

5.12.5 Capstone courses

ANTH 3100 Anthropology Today: Culture, Agency, Experience 3

ASIA 3100 Key Issues in Asian Studies 3

CLAS 3100 Unpeeling the Past: Ancient History & Archaeology.....3

CLAS 3101 The Message & the Medium in Classical Literature 3

DEVT 3100 Aid Policy & Administration 3

ENGL 3100 Concepts of Criticism: Readers, Writers, Texts.....3

GWSI 3102 Gender, Culture & Society 3

GEST 3102 Geography Matters.....3

HIST 3100 The Practice of History 3

INST 3100 International Studies Core Course 3

LING 3100 Linguistic Data, Description & Analysis.....3

PHIL 3100 Advanced Topics I: Morality & Social Philosophy 3

PHIL 3101 Advanced Topics II: Metaphysics & Epistemology 3

POLI 3100 Contemporary Analysis of Politics 3

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 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 Duration of program

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

1.2 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.

2 Admission

2.1 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) 6 units at Level I on account of studies in any academic discipline in lieu of the requirements of 4.1.1(d)

(b) 6 units at Level II or Advanced Level on account of studies in any academic discipline in lieu of the requirements of 4.1.2(h).

2.2 Status will not normally be awarded for any of the compulsory courses.

2.3 For further information on status rules, refer to 2.1 of the Academic Program Rules for the Bachelor of Arts.

3 Assessment and examinations

3.1 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.

3.2 A candidate who fails in a course or who obtains a Conceded 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.

3.3 A candidate, who does not complete the required assessment tasks in any course, shall be deemed to have failed the course.

3.4 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. 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 4.6 below.

4 Qualification requirements

4.1 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:

4.1.1 Level I

a DEVT 1001 Introduction to Development Studies 3

b Three nominated Development Studies Core courses at 3 units value each to the total value of 9 units:

ANTH 1104 Culture & Society: Foundations of Anthropology 3

ANTH 1105 Anthropology of Everyday Life 3

GEST 1001 Globalisation, Justice & a Crowded Planet 3

or

GEST 1002 Footprints on a Fragile Planet 3

GEST 1003 Thinking Economically 3

c Level I courses to the value of 6 units chosen from those listed in 5.12.1 for the Bachelor of Arts forming a minor sequence 6

d Level I courses to the value of 6 units chosen from those listed in 5.12.1 for the Bachelor of Arts or other courses offered by the university at Level I that are available to the candidate ... 6

4.1.2 Advanced Level or Level II

e DEVT 2100 Poverty & Social Development 3

f At least three Development Studies electives to the value of 9 units 3

g Advanced Level or Level II courses up to the value of 6 units chosen from those listed in 5.12.2 for the Bachelor of Arts forming a minor sequence..... 6

h Advanced Level or Level II courses up to the value of 6 units chosen from those listed in 5.12.2 for the Bachelor of Arts, or other courses offered by the University at Level II or Advanced Level, that are available to the candidate 6

4.1.3 Advanced Level or Level III or Capstone

i DEVT 3100 Aid Policy and Administration 3

j At least three Advanced Level Development Studies electives to the value of at least 9 units 9

k Advanced Level or Level III courses up to the value of 6 units chosen from those listed in 5.12.3 for the Bachelor of Arts forming a minor sequence 6

l Advanced Level or Level III courses up to the value of 6 units chosen from those listed in 5.12.3 for the Bachelor of Arts or other courses offered by the University at Level III or Advanced Level that are available to the candidate 6

4.2 Unacceptable combination of courses

4.3 Repeating courses

4.4 Cross Institutional study

4.5 International exchange

4.6 Conceded Passes

4.7 Discipline limits

4.8 Prerequisites

4.9 Surplus to requirement

4.10 Counting units toward a lower level of the degree

4.11 Review of academic progress

4.12 Graduation

For information on Rules 4.2 - 4.12, refer to Rule 5 of the Academic Program Rules for the Bachelor of Arts.

4.13 Status and combined degree arrangements

For information on Rule 4.13, refer to Rule 2.2 of the Academic Program Rules for the Bachelor of Arts.

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 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 Duration of program

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

1.2 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.

2 Admission

2.1 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 6 units at Level I on account of studies in any academic discipline in lieu of the requirements of 4.1 (c)

b 6 units at Advanced Level or Level II on account of studies in any academic discipline in lieu of the requirements of 4.1 (f).

2.2 Status will not normally be awarded for any of the compulsory courses.

2.3 For further information on status rules, refer to Rule 2.1 of the Academic Program Rules for the Bachelor of Arts.

3 Assessment and examinations

3.1 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.

3.2 A candidate who fails in a course or who obtains a Conceded 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.

3.3 A candidate who does not complete the required assessment tasks in any course, shall be deemed to have failed the course.

3.4 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. 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 5.6 below.

4 Qualification requirements

4.1 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 Planet 3
GEST 1003 Thinking Economically..... 3
GEST 1004 Population & Environment in Australia 3

b Level I courses up to the value of 6 units chosen from those listed in 5.12.1 for the Bachelor of Arts forming a minor sequence .. 6

c Level I courses up to the value of 6 units chosen from those listed in 5.12.1 for the Bachelor of Arts or other courses offered by the University at Level I that are available to the candidate 6

Advanced Level or Level II

d Advanced Level GEST specialised courses* to the value of at least 12 units 12

e Advanced Level or Level II courses up to the value of 6 units chosen from those listed in 5.12.2 or 5.12.4 for the Bachelor of Arts forming a minor sequence..... 6

f Advanced Level or Level II courses up to the value of 6 units chosen from those listed in 5.12.2 or 5.12.4 for the Bachelor of Arts, or other courses offered by the University at Advanced Level or Level II, that are available to the candidate 6

* Chosen from a list designated by the Discipline of Geographical and Environmental Studies each year.

Advanced Level or Level III

g Advanced Level GEST specialised courses* to the value of at least 12 units 12

h Advanced Level or Level III courses to the value of up to 6 units chosen from those listed in 5.12.3 or 5.12.4 for the Bachelor of Arts forming a minor sequence 6

i Advanced Level or Level III courses to the value of up to 6 units chosen from those listed in 5.12.3 or 5.12.4 for the Bachelor of Arts 6

* Chosen from a list designated by the Discipline of Geographical and Environmental Studies each year.

4.2 Unacceptable combination of courses

4.3 Repeating courses

4.4 Cross Institutional study

4.5 International exchange

4.6 Conceded Passes

4.7 Discipline limits

4.8 Prerequisites

4.9 Surplus to requirement

4.10 Counting units toward a lower level of the degree

4.11 Review of academic progress

4.12 Graduation

For information on Rules 4.2 - 4.12, refer to Rule 5 of the Academic Program Rules for the Bachelor of Arts.

4.13 Status and combined degree arrangements

For information on Rule 4.13, refer to Rules 2.1 and 2.2 of the Academic Program Rules for the Bachelor of Arts.

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 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 Duration of program

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

1.2 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.

2 Admission

2.1 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 6 units at Level I on account of studies in any academic discipline in lieu of the requirements of 4.1 (d)

b 6 units at Advanced Level or Level II on account of studies in any academic discipline in lieu of the requirements of 4.1 (g).

2.2 Status will not normally be awarded for any of the compulsory courses.

2.3 For further information on status rules, refer to 2.1 of the Academic Program Rules for the Bachelor of Arts.

3 Assessment and examinations

3.1 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.

3.2 A candidate who fails in a course or who obtains a Conceded 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.

3.3 A candidate who does not complete the required assessment tasks in any course, shall be deemed to have failed the course.

3.4 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. 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 5.6 below.

4 Qualification requirements

4.1 Academic program

To qualify for the degree of Bachelor of International Studies a candidate shall present passes in courses to a value of 72 units that satisfy the following requirements:

Level I

a POLI 1102 Introduction to International Politics 3

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 up to the value of 6 units chosen from those listed in 5.12.1 for the Bachelor of Arts forming a minor sequence .. 6

d Level I courses up to the value of 6 units chosen from those listed in 5.12.1 for the Bachelor of Arts or other courses offered by the University at Level I that are available to the candidate..... 6

Advanced Level or Level II

e Advanced Level International Studies compulsory courses to the value of 6 units:

POLI 2108 Post-Cold War International Relations 3

POLI 2118 Comparative Politics of Leadership.. 3

f Advanced Level specialised* International Studies courses to the value of at least 6 units 6

g Advanced Level or Level II courses to the value of 6 units chosen from those listed in 5.12.2 or

5.12.4 for the Bachelor of Arts forming a minor sequence.....6

h Advanced Level or Level II courses to the value of 6 units chosen from those listed in 5.12.2 or 5.12.4 for the Bachelor of Arts, or other courses offered by the University at Level II, that are available to the candidate.....6

Advanced, Level III or Capstone

i Capstone course to the value of 3 units:

INST 3100 International Studies Core Course ... 3

j Advanced Level specialised* International Studies courses to the value of at least 9 units.....9

k Advanced Level or Level III courses to the value of 6 units chosen from those listed in 5.12.3 or 5.12.4 for the Bachelor of Arts forming a minor sequence.....6

l Advanced Level or Level III courses to the value of 6 units chosen from those listed in 5.12.3 or 5.12.4 for the Bachelor of Arts 6

m In some cases the final year of the program as specified in 4.1.(i)-(l) may be replaced by International Exchange or In-country studies to the value of 24 units, and language courses to the value of 12 units.

* To be designated by the School of History & Politics each year.

4.2 Unacceptable combinations of courses

4.3 Repeating courses

4.4 Cross-institutional study

4.5 International exchanges

4.6 Conceded Passes

4.7 Discipline limits

4.8 Prerequisites

4.9 Surplus to requirement

4.10 Counting units toward a lower level of the degree

4.11 Review of academic progress

4.12 Graduation

For information on Rules 4.2 - 4.12, refer to Rule 5 of the Academic Program Rules for the Bachelor of Arts.

4.13 Status and double degree arrangements

For information on Rule 4.13, refer to Rule 2.2 of the Academic Program Rules for the Bachelor of Arts.

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 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 Duration of program

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

1.2 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.

2 Admission

2.1 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 6 units at Level I on account of studies in any academic discipline in lieu of the requirements of 4.1 (c)

b 6 units at Advanced Level or Level II on account of studies in any academic discipline in lieu of the requirements of 4.1 (e).

2.2 Status will not normally be awarded for any of the compulsory courses.

2.3 For further information on status rules, refer to 2.1 of the Academic Program Rules for the Bachelor of Arts.

3 Assessment and examinations

3.1 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.

3.2 A candidate who fails in a course or who obtains a Conceded 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.

3.3 A candidate who does not complete the required assessment tasks in any course, shall be deemed to have failed the course.

3.4 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. 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 5.6 below.

4 Qualification requirements

4.1 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: TV and Radio 3

MDIA 1005 Critical Histories of the Image 3

MDIA 1006 Story/technology: Writing Techniques 3

b Level I courses to the value of up to 12 units chosen from those listed in 5.12.1 for the Bachelor of Arts or other courses offered by the University at Level I that are available to the candidate. 12

Advanced Level or Level II

c MDIA 2301 Media Policy & Media Law 3

MDIA 2302 Media Research Methods 3

MDIA 2303 Global Media: Policies and Practices 3

MDIA 2306 Media Theory 3

d Advanced Level or Level II courses to the value of up to 6 units chosen from those listed in 5.12.2 and 5.12.4 for the Bachelor of Arts or Media electives at Level II not previously undertaken (see i below) 6

e Advanced Level or Level II courses up to the value of 6 units chosen from those listed in 5.12.2 and 5.12.4 for the Bachelor of Arts, or other courses offered by the University at Level II, that are available to the candidate 6

Advanced Level or Level III

f MDIA 3310 Professional Practice.....3
MDIA 3312 Media Democracies and E-Participation.....3
MDIA 3313 Screens: Special topic.....3
Level II or Level III Media elective not previously undertaken (see i below).....3

g Advanced Level or Level III courses up to the value of 6 units chosen from those listed in 5.12.3 and 5.12.4 for the Bachelor of Arts or Media electives at Level III not previously undertaken (see i below).....6

h Advanced Level or Level III courses to the value of 6 units chosen from those listed in 5.12.3 and 5.12.4 for the Bachelor of Arts or other courses offered by the University at Advanced Level or Level III that are available to the candidate.....6

i Media Electives may be chosen from:
MDIA 2322 Radio Production A.....3
MDIA 2325 Video Production A.....3
MDIA 2327 Multimedia Production A.....3
MDIA 3311 Media Industry Placement.....3
MDIA 3322 Radio Production B.....3
MDIA 3325 Video Production B.....3
MDIA 3327 Multimedia Production B.....3

4.2 Unacceptable combinations of courses

4.3 Repeating courses

4.4 Cross-institutional study

4.5 International exchanges

4.6 Conceded Passes

4.7 Discipline limits

4.8 Prerequisites

4.9 Surplus to requirement

4.10 Counting units toward a lower level of the degree

4.11 Review of academic progress

4.12 Graduation

For information on Rules 4.2 - 4.12, refer to Rule 5 of the Academic Program Rules for the Bachelor of Arts.

4.13 Status and double degree arrangements

For information on Rule 4.13, refer to Rule 2.2 of the Academic Program Rules for the Bachelor of Arts.

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 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.

Bachelor of Social Sciences

1 Duration of program

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

1.2 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.

2 Admission

2.1 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 6 units at Level I on account of studies in any academic discipline in lieu of the requirements of 4.1 (d)

b 6 units at Advanced Level or Level II on account of studies in any academic discipline in lieu of the requirements of 4.1 (h).

2.2 Status will not normally be awarded for any of the compulsory courses. However, students enrolled in:

PSYCHOL 2001 Psychological Research Methodology II

PSYCHOL 2002 Psychology IIA *or*

PSYCHOL 2003 Psychology IIB

may apply for exemption from the compulsory course GEST 2032 Social Science Techniques.

2.3 For further information on status rules, refer to 2.1 of the Academic Program Rules for the Bachelor of Arts.

3 Assessment and examinations

3.1 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.

3.2 A candidate who fails in a course or who obtains a Conceded 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.

3.3 A candidate who does not complete the required assessment tasks in any course, shall be deemed to have failed the course.

3.4 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. 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 5.6 below.

4 Qualification requirements

4.1 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 Core courses to the value of 6 units:

GEST 1001 Globalisation, Justice and a Crowded Planet 3

GWSI 1001 Social Sciences in Australia.....3

b Level I Social Sciences courses to the value of up to 6 units chosen from those listed in 5.12.1 for the Bachelor of Arts forming a major Social Sciences sequence (see 4.1.1 below) 6

c Level I Social Sciences courses to the value of 6 units chosen from those listed in 5.12.1 for the Bachelor of Arts forming a minor Social Sciences sequence* (see 4.1.2 below) 6

d Level I courses to the value of 6 units chosen from those listed in 5.12.1 for the Bachelor of Arts or other courses offered by the University at Level I that are available to the candidate....6

Advanced Level or Level II

e Core courses to the value of 6 units:

GEST 2032 Social Science Techniques 3

GWSI 2110 Social Research.....3

f Advanced Level or Level II Social Sciences courses to the value of 6 units chosen from those listed in 5.12.2 or 5.12.4 for the Bachelor of Arts forming a major Social Science sequence (see 4.1.1 below) 6

g Advanced Level or Level II Social Sciences courses to the value of 6 units chosen from those listed in 5.12.2 or 5.12.4 for the Bachelor of Arts forming a minor Social Science sequence* (see 4.1.2) below 6

h Advanced Level or Level II courses to the value of 6 units chosen from those listed in 5.12.2 or 5.12.4 for the Bachelor of Arts or other courses offered by the University at Advanced Level or Level II that are available to the candidate. 6

Advanced Level, Level III or Capstone

i Advanced Level or Level III Social Sciences courses (including a capstone) up to the value of 12 units chosen from those listed in 5.12.3 to 5.12.5 for the Bachelor of Arts forming a major Social Sciences sequence (see 4.1.1 below.. 12

j Advanced Level or Level III Social Sciences courses up to the value of 6 units chosen from those listed in 5.12.3 or 5.12.4 for the Bachelor of Arts forming a minor Social Sciences sequence* (see 4.1.2 below) 6

k Advanced Level or Level III courses to the value of 6 units chosen from those listed in 5.12.3 or 5.12.4 for the Bachelor of Arts or other courses offered by the University at Advanced Level or Level III that are available to the candidate. 6

4.1.1 Major sequence in Social Sciences

24 units of courses must be chosen from one of the following areas of study, to form a 'major sequence' of study. A maximum of 6 units at Level I and at least 18 units of Advanced Level courses (including a Capstone course) or 9 units at Level II and 9 units at Level III must be presented:

Anthropology
Asian Politics & Foreign Policy
Asian Studies
Development Studies
Economics
Gender, Work & Social Inquiry
Geographical & Environmental Studies
History
International Studies
Linguistics
Philosophy
Politics
Psychology

4.1.2 Minor sequence in Social Sciences+

18 units of courses must be chosen from one of the following areas of study, to form a 'minor sequence' of study. A maximum of 6 units at Level I and at least 12 units of Advanced Level courses or 6 units at Level II and 6 units at Level III must be presented:

Anthropology
Asian Politics & Foreign Policy
Asian Studies
Australian Studies*
Biography/History*
Development Studies
Economics
Film*
Gender, Work & Social Inquiry
Geographical & Environmental Studies
Globalisation*
History
International Studies
Linguistics
Philosophy
Politics
Popular Culture*
Psychology
Religion & Ethics*

* Interdisciplinary minor.

*** Minor Sequences**

In forming a minor sequence, it is recommended candidates choose:

- two Level I courses from a list of Level I Social Sciences courses including ASIA 1103 Asia and the World (6 units)
- ANTH 2040 Ethnography: Engaged Social Research (3 units)
- one Advanced Level course chosen from either Social Issues or Applied Social Sciences courses (3 units)
- one Advanced Level course chosen from a list of Social Issues courses designated by the School of Social Sciences each year (3 units)
- one Advanced Level course chosen from a list of Applied Social Sciences courses designated by the School of Social Sciences each year (3 units).

4.2 Unacceptable combinations of courses

4.3 Repeating courses

4.4 Cross-institutional study

4.5 International exchanges

4.6 Conceded Passes

4.7 Discipline limits

4.8 Prerequisites

4.9 Surplus to requirement

4.10 Counting units toward a lower level of the degree

4.11 Review of academic progress

4.12 Graduation

For information on Rules 4.2 - 4.12, refer to Rule5 of the Academic Program Rules for the Bachelor of Arts.

4.13 Status and double degree arrangements

For information on Rule 4.13, refer to Rule 2.2 of the Academic Program Rules for the Bachelor of Arts.

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 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 Duration of program

1.1 The work of the Honours year must be completed in one full year of full-time study, or 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 1.2 below.

1.2 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 a student has chosen to enrol in another course concurrently.

2 Admission

2.1 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.

2.2 Students wishing to take Honours must obtain the approval of the Head of School/s.

2.3 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 3.4 permits the student to re-enrol.

2.3.4 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.

3 Assessment and examinations

3.1 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.

3.2 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

3.3 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.

3.4 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.

4 Qualification requirements

4.1 A student may proceed to the Honours degree in one of the courses listed in Rule 4.5 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.

4.2 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.

4.3 A student may not proceed to the Honours degree in a course that is not listed in Rule 4.5 below.

4.4 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.

4.5 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:

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

DEVT 4401 A/B Honours Development 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 4401A/B Honours International Studies 24

JAPN 4401 A/B Honours Japanese Studies 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.

4.6 Graduation

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

5 Special circumstances

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

Note: To Academic Program Rule 4 (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 Duration of program

The work of the Honours year must be completed in one full year of full-time study, or 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 1.1 below.

1.1 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 1.2 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.

2 Admission

2.1 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.

2.2 Students wishing to take Honours must obtain the approval of the Head of School/s.

2.3 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.

2.4 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.

3 Assessment and examinations

3.1 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

3.2 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

3.3 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.

3.4 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.

4 Qualification requirements

4.1 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.

4.2 The Head of the School/s concerned before enrolment must approve the program of study and dissertation topic for the Honours year for students.

4.3 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 Studies 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.

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.

Note: To Academic Program Rule 4 (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 Policy and Management (Honours)*

1 Duration of program

1.1 The work of the Honours year must be completed in one year of full-time study, other than 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 1.2 below.

1.2 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 1.2 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.

2 Admission

2.1 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.

2.2 Students wishing to take Honours must obtain the approval of the Head of the School or School/s.

2.3 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 3.4, below permits the student to re-enrol.

2.4 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 Policy and Management in a corresponding course, field of study, or School of the Faculty of Humanities and Social Sciences.

3 Assessment and examinations

3.1 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.

3.2 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

3.3 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.

3.4 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.

4 Qualification requirements

4.1 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.

4.2 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.

4.3 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 & Management 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.

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.

Note: To Academic Program Rule 4 (not forming part of the Rule)

The coursework and dissertation submitted to fulfil the requirements of the B.Env.Pol.& Mgt.(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.

* New program name subject to University approval.

Bachelor of International Studies (Honours)

1 Duration of program

1.1 The work of the Honours year must be completed in one full year of full-time study, or,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 1.2 below.

1.2 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 1.2 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.

2 Admission

2.1 Students for the Honours degree shall not begin their Honours work until they have qualified for a degree of Bachelor 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.

2.2 Students wishing to take Honours must obtain the approval of the Head of School/s.

2.3 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 3.4 permits the student to re-enrol.

2.4 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.

3 Assessment and examinations

3.1 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

3.2 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

3.3 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.

3.4 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.

4 Qualification requirements

4.1 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.

4.2 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.

4.3 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 Studies 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.

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.

Note: To Academic Program Rule 4 (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 Duration of program

1.1 The work of the Honours year must be completed in one full year of full-time study, or 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 1.2 below:

1.2 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 1.1 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.

2 Admission

2.1 Students for the Honours degree shall not begin their Honours work until they have qualified for a degree of Bachelor of Media, 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.

2.2 Students wishing to take Honours must obtain the approval of the Head of School/s.

2.3 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 3.4 permits the student to re-enrol.

2.4 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.

3 Assessment and examinations

3.1 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.

3.2 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

3.3 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.

3.4 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.

4 Qualification requirements

4.1 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.

4.2 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.

4.3 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.

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.

Note: To Academic Program Rule 4 (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.

Bachelor of Social Sciences (Honours)

1 Duration of program

1.1 The work of the Honours year must be completed in one full year of full-time study, or 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 1.2 below.

1.2 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 1.2 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.

2 Admission

2.1 Students for the Honours degree shall not begin their Honours work until they have qualified for a degree of Bachelor 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.

2.2 Students wishing to take Honours must obtain the approval of the Head of School/s.

2.3 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 3.4 permits the student to re-enrol.

2.4 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.

3 Assessment and examinations

3.1 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.

3.2 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

3.3 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.

3.4 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.

4 Qualification requirements

4.1 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.

4.2 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.

4.3 A student may proceed to the Honours degree in one of the following courses 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

DEVT 4401 A/B Honours Development Studies.24

ECON 4003 A/B Honours Economics.....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 4401 A/B Honours International Studies....24

LING 4401 A/B Honours Linguistics.....24

PHIL 4401 A/B Honours Philosophy.....24

POLI 4401 A/B Honours Politics.....24

PSCHOL 4000 A/B Honours Psychology.....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

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.

Note: To Academic Program Rule 4(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

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 double degrees shall extend over 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 years for Graduate entrants and no less than 1.5 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 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 under the Bachelor of Laws (undergraduate entry) double degrees category 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 Development Studies (B Dev St)

Bachelor of Economics (B.Ec.)

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*

applicants who are not graduates and intend to study Law only apply using the Bachelor of Laws (Undergraduate Law) category.

3.2 Places in the courses LAW 1501 Foundations of Law, LAW 1502 Law of Torts 1, LAW 1503 Contracts and LAW 1504 Principles of Public Law 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 5.3.1.1(a) 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 48 units if studying the 96 unit stand-alone LLB, or 36 units if studying the 72 unit graduate entry LLB, or 36 units if studying the LLB as part of a double degree.

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 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 that 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 course 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 course they will not permitted to enrol 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 2009 shall comply with the relevant provisions of the Academic Program Rules set out in Clause 5.3.

5.2 To qualify for the Bachelor degree with Honours a candidate shall comply with the relevant provisions of Academic Program Rule 5.3.1.2

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

5.3 Academic program

5.3.1 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 years of full-time study for graduates or candidates completing a non-Law degree also.

5.3.1.1 A candidate shall qualify for the degree if:

a the candidate has

i all the following compulsory courses:

LAW 1501 Foundations of Law....3
LAW 1502 Law of Torts 1....3
LAW 1504 Principles of Public Law....3
LAW 1503 Contracts....6
LAW 1505 Law of Torts 2....3
LAW 1506 Property Law....6
LAW 2501 Australian Constitutional Law....3
LAW 2502 Equity....3
LAW 2503 Criminal Law & Procedure....6
LAW 2504 Administrative Law....3
LAW 2505 Corporate Law....6
LAW 3501 Dispute Resolution & Ethics....6
LAW 3502 Evidence and Proof In Theory and Practice....6

and

ii elective courses with an aggregate units value of 15 units from the following (note 5.3.1.1(b)(iv) below):

LAW 2507 Australian Legal History....3
LAW 2508 Comparative Law....3
LAW 2509 Commercial Law and the Market....3
LAW 2510 Consumer Protection and Unfair Trading....3
LAW 2511 Environmental Law....3
LAW 2512 Family Law....3
LAW 2513 Human Rights: International and National Perspectives....3
LAW 2514 Intellectual Property Law....3
LAW 2515 Law of the Person....3
LAW 2516 Medical Law and Ethics....3
LAW 2517 Minerals and Energy Law....3
LAW 2518 Moot Court....3
LAW 2519 Native Title Internship....3
LAW 2520 Public International Law....3
LAW 2521 Property Theory....3
LAW 2522 Roman Law....3
LAW 2523 Succession....3
LAW 2524 Criminology....3

LAW 2526 Legal Theory 3

LAW 3505 Aboriginal Peoples and the Law 3

LAW 3506 Adelaide Law Review 3

LAW 3507 Alternative Dispute Resolution 3

LAW 3508 Australian Federal Criminal Law 3

LAW 3509 Anti-Discrimination Law and Equality Law 3

LAW 3510 Clinical Legal Education 3

LAW 3511 Commercial Equity 3

LAW 3512 Conflict of Laws 3

LAW 3513 Financial Transactions 3

LAW 3514 Human Rights Internship Programme 3

LAW 3515 Immigration & Refugee Law 3

LAW 3516 Jessup Moot 3

LAW 3517 Law of Work 3

LAW 3519 Remedies 3

LAW 3520 Sentencing and Criminal Justice 3

LAW 3521 Taxation Law 3

LAW 3522 Disclosure Obligations of Companies 3

LAW 3523 Company Merger and Acquisiition Law 3

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and

b 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, 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 completed an additional 24 units of elective courses from, 5.3.1.1(a)(ii) above, or 12 units of elective courses from 5.3.1.1(a (ii) above and 12 units of non-Law courses subject to the approval of the Faculty/ School concerned.

The School may determine that any elective course/s 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(a) above.

5.3.1.2 A candidate shall be awarded the degree of Bachelor of Law with Honours provided they have achieved a Grade Point Average (GPA) of equal to or more than 5.20*. The class of Honours awarded shall be determined as follows:

First Class	6.00+
Second Class (Div 1)	5.50 - 5.99
Second Class (Div II)	5.20 – 5.49

Note: Students intending to study a Master by Research or a PhD must undertake the course 'Law Research Dissertation'.

* For further details of how the GPA is calculated, please refer to the Law School website.

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.

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

Undergraduate Awards

- Certificate III in Music
- Certificate IV in Music (Classical)
- Certificate IV in Music (Jazz)
- Certificate IV in Music (Technology)
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- Diploma in Music (Classical)
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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 Duration of programs

1.1 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.

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

1.3 Students wishing to interrupt their studies in accordance with 1.2 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.

1.4 A student who leaves the program without approval or who extends a leave of absence beyond the time period approved under 1.2 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.

1.5 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.

2 Admission

2.1 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.

2.2 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.

2.3 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.

2.4 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.

2.5 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.

2.6 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.

2.7 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.

3 Enrolment

3.1 Candidates must obtain the approval of the Director of the School, or the nominee of the Director, for the proposed programs of study.

3.2 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.

3.3 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.

3.4 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.

3.5 A candidate must satisfy the prerequisite requirements for enrolment in semester two courses.

4 Assessment and examinations

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

4.2 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.

4.3 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.

4.4 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.

4.5 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. No more than three Conceded Pass grades will be accepted towards the completion of any award, and no conceded pass will be accepted for a course designated as a specialist course*.

A particular competency shall be deemed to have been achieved when all relevant sections of courses mapped against it have been completed.

* A list of specialist courses is availabile from the Elder Conservatorium office.

4.6 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.

4.7 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.

5 Qualification requirements

5.1 Academic program: Diploma in Music (Classical)

5.1.1 The program for the Diploma in Music (Classical) may be taken with a major study in Classical Performance.

5.1.2 To qualify for the Diploma a candidate shall satisfactorily complete the requirements for courses listed below in 5.1.2.1. Courses to a total value of 24 units must be presented. No student shall gain credit for a course more than once.

5.1.2.1 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

5.1.3 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.

5.1.4 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 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.

5.2 Academic program: Diploma in Music (Jazz)

5.2.1 The program for the Diploma in Music (Jazz) may be taken with a major study in Jazz Performance.

5.2.2 To qualify for the Diploma a candidate shall satisfactorily complete the requirements for courses listed below in 5.2.2.1. Courses to a total value of 24 units must be presented. No student shall gain credit for a course more than once.

5.2.2.1 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

5.2.3 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.

5.2.4 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 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.

5.3 Academic program: Diploma in Music (Sound Engineering)

5.3.1 The program for the Diploma in Music (Sound Engineering) may be taken with a major study in Sound Engineering.

5.3.2 To qualify for the Diploma a candidate shall satisfactorily complete the requirements for courses listed in 5.3.2.1. Courses to a total value of 24 units must be presented. No student shall gain credit for a course more than once.

5.3.2.1 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

5.3.3 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.

5.3.4 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

5.4 Academic program: Certificate IV in Music (Classical)

5.4.1 The program for the Certificate IV in Music (Classical) may be taken with a major study in Classical Performance on an instrument or voice.

5.4.2 To qualify for the Certificate a candidate shall satisfactorily complete the requirements for courses listed below in 5.4.2.1. Courses to a total value of 24 units must be presented. No student shall gain credit for a course more than once.

5.4.2.1 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 (Certificate 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 (Certificate 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

and

VETMUS 1802 A/B Keyboard Musicianship (Certificate IV) Major Part 1 & 2.....2

or

VETMUS 1808 A/B Keyboard Musicianship (Certificate IV) Minor Part 1 & 2.....2

5.4.3 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.

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

Notes (not forming part of the Academic Program Rules)

1 Work required to complete the Certificate IV in Music (Classical):

To qualify for the award of the Certificate IV in Music (Classical) 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.

5.5 Academic program: Certificate IV in Music (Jazz)

5.5.1 The program for the Certificate IV in Music (Jazz) may be taken with a major study in Jazz Performance.

5.5.2 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.

5.5.2.1 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

5.5.3 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.

5.5.4 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.

5.6 Academic program: Certificate IV in Music (Technology)

5.6.1 The program for the Certificate IV in Music (Technology) may be taken with a Practical Study in Music Technology.

5.6.2 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.

5.6.2.1 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 (Certificate IV) Part 1 & 2..... 6

VETMUS 1801 A/B Composition Class Part 1 & 2 2

VETMUS 1911 A/B Audio Studies (Certificate IV) Part 1 & 2 4

VETMUS 1912 A/B Midi Studies (Certificate IV) Part 1 & 2..... 4

VETMUS 1913 A/B Music Technology Forum (Certificate IV) Part 1 & 2..... 3

and

VETMUS 1802 A/B Keyboard Musicianship (Certificate IV Major) Part 1 & 2 2

or

VETMUS 1808 A/B Keyboard Musicianship (Certificate IV Minor) Part 1 & 2 2

5.6.3 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.

5.6.4 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.

5.7 Academic program: Certificate III in Music

5.7.1 The program for the Certificate III in Music may be taken with a major study in performance or composition.

5.7.2 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.

5.7.2.1 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 (Certificate III) Part 1 & 2 3

or

VETMUS 1912 A/B IMidi Studies (Certificate Level) Part 1 & 2 3

VETMUS 1611 A/B Aural Development (Certificate III) Part 1 & 2 2

VETMUS 1612 A/B Ensemble (Certificate III) Part 1 & 2 2

VETMUS 1613 A/B Theory of Music (Certificate III) Part 1 & 2 2

5.7.3 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.

5.7.4 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.

6 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.

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.

Diploma in Instrumental Music

1 Duration of program

1.1 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.

1.2 A student who leaves the program shall be deemed to have discontinued his or her candidature for the award and may not reenrol without re-auditioning.

2 Admission

2.1 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.

2.2 A student of the Diploma in Instrumental Music must be enrolled concurrently in a degree of Bachelor of the University.

3 Enrolment

3.1 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.

3.2 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.

3.3 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.

3.4 A candidate must satisfy the prerequisite requirements for enrolment in semester two courses.

4 Assessment and examinations

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

4.2 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.

4.3 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.

4.4 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.

4.5 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.

There shall also be a classification of Conceded Pass. Courses for which a Conceded Pass has been obtained shall not satisfy prerequisite requirements and may not be presented as credit towards completion of the award.

4.6 A candidate who fails a course, and who desires to take that course again shall, unless exempted wholly or partially there from by the School, again complete the required work in that course to the satisfaction of the teaching staff concerned.

4.7 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.

5 Qualification requirements

5.1 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.

5.2 A candidate may not have the Diploma in Instrumental Music conferred until he or she

has satisfied the requirements for the approved undergraduate program in which they are currently enrolled.

5.3 Academic program

5.3.1 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 5.1.2.3 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 5.1.2.3 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 5.1.2.3 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 5.1.2.3 of the degree of Bachelor of Music.....3

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 Music
Bachelor of Music Education
Bachelor of Music Studies
Bachelor of Music (Honours)
Bachelor of Music Education (Honours)
Bachelor of Music Studies (Honours)

1 Duration of programs

1.1 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 1.4 below.

1.2 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 1.4 below.

1.3 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 1.4 below.

1.4 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.

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

1.6 Students wishing to interrupt their studies in accordance with 1.5 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.

1.7 A student who leaves the program without approval or who extends a leave of absence beyond the time period approved under 1.5 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.

1.8 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.

2 Admission

2.1 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.

2.2 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.

2.3 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.

2.4 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.

3 Enrolment

3.1 Candidates must obtain the approval of the Director of the School, or nominee, for the proposed programs of study.

3.2 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.

3.3 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.

3.4 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.

3.5 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.

4 Assessment and examinations

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

4.2 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.

4.3 There are specific attendance requirements for all Music programs. In particular, students are expected to participate in 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.

4.4 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.

4.5 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.

4.6 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.

4.7 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.

4.8 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.

4.9 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.

5 Qualification requirements

5.1 Academic program: Bachelor of Music

5.1.1 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.

5.1.2 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 5.1.2.1 to 5.1.2.3. 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 5.1.2, conceded passes may be presented for elective courses only, from Clause 5.1.2.3, provided that they do not exceed 6 units in total.

5.1.2.1 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

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

or

ENS 1010 A/B Elder Conservatorium Wind Orchestra I Part 1 & 2 3

Keyboard

PERF 1002 A/B Functional Musicianship I Part 1 & 2 3

Percussion

ENS 1017 A/B Percussion Ensemble I Part 1 & 2 3

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

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

or

ENS 1010 A/B Elder Conservatorium Wind Orchestra I Part 1 & 2 3

Level II

MUSCORE 2005 Western Music in Theory & Practice IIA: 1750-1850 3

MUSCORE 2006 Western Music in Theory & Practice IIB: 1850-1950 3

and

PERF 2500 A/B Classical Performance II Part 1 & 2 9

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 5.1.2.3 to complete a full load of 24 units.

Level III

MUSCORE 3005 Western Music in Theory & Practice III: 1950 Onward.....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 5.1.2.3.....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 5.1.2.3.....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 5.1.2.3 to complete a full load of 24 units.

5.1.2.2 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 5.1.2.3.....3.

Note: An elective from Clause 5.1.2.3 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 5.1.2.3 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 5.1.2.3 to complete a full load of 24 units.

Note: An elective from Clause 5.1.2.3 may be presented in lieu of a large Jazz Ensemble when an Ensemble is unavailable.

5.1.2.3 Music 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 II/III.....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 III: 1950 Onward 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 Functional 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

5.1.3 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.

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

Notes (not forming part of the Academic Program Rules)

1 Work required to complete the Bachelor degree:

To qualify for the award of the degree of Bachelor of Music a candidate granted status (see relevant section under Student Related Polices in 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 program of Bachelor of Music and Bachelor of Arts:

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 or Advanced Level courses to the minimum value of 12 units

Level III or Advanced Level courses to the minimum value of 24 units

Candidates must complete all of the Level III requirements in accordance with the relevant Academic Program Rule 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 in the first instance. Applications to change specialisation are subject to the approval of the Director or nominee of the Director.

5.2 Academic program: Bachelor of Music Education

5.2.1 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.

5.2.2 To qualify for the Bachelor degree a candidate shall satisfactorily complete the requirements for courses listed below and those courses listed in 5.1.2.3. 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 5.2.2, conceded passes may be presented for elective courses only from Clause 5.1.2.3, provided that they do not exceed 6 units in total..

5.2.2.1 Music Education

Candidates shall satisfactorily complete the following:

Level I

Either

1 The requirements of Level I of clause 5.1.2.1 or 5.1.2.2 of the degree of Bachelor of Music *or*

2 The requirements of Level I of clause 5.3.2.1 or 5.3.2.2 or 6.3.2.3 of the degree of Bachelor of Music Studies before proceeding to Level II.

Level II

MUSED 2001 Music Education IIA 3

MUSED 2002 Music Education IIB 3

MUSED 2003 A/B Music Education Ensembles II Part 1 & 2.....3

and either

MUSCORE 2005 Western Music in Theory & Practice IIA: 1750-1850 3

MUSCORE 2006 Western Music in Theory & Practice IIB: 1850-1950 3

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 & 2.....6

or

MUSTECH 2003 A/B Music Technology II Part 1 & 2..... 6

and

GENMUS 2026 A/B Perspectives in Music Technology II Part 1 & 2 3

or

PERF 2600 A/B Practical Study II: Performance Part 1 & 2.....6

or

JAZZ 2600 A/B Practical Study II: Jazz Part 1 & 2 6

and Electives selected from clause 5.1.2.3 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 III: 1950 Onward.....3

and

COMP 3500 A/B Composition III Part 1 & 2 6

or

MUSTECH 3003 A/B Music Technology III Part 1 & 2..... 6

and

GENMUS 3026 A/B Perspectives in Music Technology III Part 1 & 2 3

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 5.1.2.3 to complete a full load of 24 units.

Level IV

EDUC 4201 Education Culture & Indigenous Perspectives (UG) 3

EDUC 4202 Student Learning and Interactions 1(UG).....3

EDUC 4203 Curriculum, Assessment and Learning 3

EDUC 4204 Families, Schools & Special Needs (UG) 3

EDUC 4205 Teaching Practice Part I (UG) 3

EDUC 4206 Teaching Practice Part II (UG) 3

MUSED 4001 A/B Music Education IV Part 1 & 2 .. 3

and an elective selected from clause 5.1.2.3 or MUSED 4002 A/B Music Education Project IV Part 1 & 2.....3

5.2.3 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.

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

Notes (not forming part of the Academic Program Rules)

1 Work required to complete the Bachelor degree

To qualify for the award of the degree of Bachelor of Music Education a candidate granted status (see relevant section under Student Related Polices in 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 program of Bachelor of Music Education and Bachelor of Arts:

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 or Advanced Level courses to the minimum value of 12 units

Level III or Advanced Level courses to the minimum value of 24 units.

Candidates must complete all of the Level III requirements in accordance with the relevant Academic Program Rule 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.

5.3 Academic program: Bachelor of Music Studies

5.3.1 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 or in Performance and Pedagogy.

5.3.2 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 5.3.2.1 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 5.3.2, conceded passes may be presented for elective courses only from Clause 5.1.2.3, provided that they do not exceed 6 units in total.

5.3.2.1 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 5.1.2.3 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 III: 1950 Onward.....3

MUSST 3001 Approaches to Music III.....3

and Electives selected from clause 5.1.2.3 to complete a full load of 24 units.

5.3.2.2 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 5.1.2.3 to complete a full load of 24 units.

Level III

MUSCORE 3005 Western Music in Theory & Practice III: 1950 Onward.....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 5.1.2.3 to complete a full load of 24 units.

5.3.2.3 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 5.1.2.3 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 5.1.2.3 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 III: 1950 Onward.....3

MUSST 3001 Approaches to Music III.....3

MUSTECH 3003 A/B Music Technology III Part 1 & 2.....6

and Electives selected from clause 5.1.2.3 to complete a full load of 24 units.

5.3.2.4 Performance and Pedagogy

Candidates shall satisfactorily complete the following courses:

Level 1

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

MUSPED 1001 Pedagogy Studies I.....3

PERF 1600 A/B Practical Study I: Performance Part 1 & 2.....6

and Electives selected from Clause 5.1.2.3 to complete a full load of 24 units.

Level II

MUSCORE 2005 Western Music in Theory and Practice IIA.....3

MUSCORE 2006 Western Music in Theory and Practice IIB.....3

MUSPED 2001 Pedagogy Studies II.....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 Electives selected from Clause 5.1.2.3 to complete a full load of 24 units.

Level III

MUSCORE 3005 Western Music in Theory and Practice III: 1950 Onward.....3

MUSPED 3001A Pedagogy Studies IIIA.....3

MUSPED 3001B Pedagogy Studies IIIB.....3

MUSST 3001 Approaches to Music III.....3

PERF 3600 A/B Practical Study III: Performance Part 1 & 2.....6

and Electives selected from Clause 5.1.2.3 to complete a full load of 24 units.

5.3.3 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.

Notes (not forming part of the Academic Program Rules)

1 Work required to complete the Bachelor degree

To qualify for the award of the degree of Bachelor of Music Studies a candidate granted status (see relevant section under Student Related Polices in 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 program of Bachelor of Music Studies and Bachelor of Arts:

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 or Advanced Level courses to the minimum value of 12 units

Level III or Advanced Level courses to the minimum value of 24 units

Candidates must complete all of the Level III requirements in accordance with the relevant Academic Program Rule 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.

5.3.4 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.

5.4 Academic program: Honours degree of Bachelor of Music

5.4.1 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 5.4.

5.4.2 To qualify for the Honours degree a candidate shall satisfactorily complete:

PERF 4005 A/B Honours Performance *or*

PERF 4006 A/B Honours Music Pedagogy.

5.4.3 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.

5.4.4 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.

5.4.5 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.

5.5 Academic program: The Honours degree of Bachelor of Music Education

5.5.1 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.

5.5.2 To qualify for the Honours degree a candidate shall satisfactorily complete MUSICED 4006 A/B Honours Music Education Part 1 & 2.

5.5.3 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.

5.5.4 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.

5.5.5 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.

5.6 Academic program: The Honours degree of Bachelor of Music Studies

5.6.1 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.

5.6.2 To qualify for the Honours degree a candidate shall satisfactorily complete one of the following Honours courses:

ETHNO 4003A/B Honours Ethnomusicology

MUSCOMP 4010A/B Honours Composition

MUSICOL 4011A/B Honours Musicology

MUSTECH 4001A/B Honours Music Technology

5.6.3 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.

5.6.4 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.

5.6.5 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.

6 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.

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.

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 hours or 14 hours tuition per semester or 14 hours or 28 hours per year. The class courses will cbe taken over 12 weeks per semester or 24 weeks 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 Single Study scholarships are offered by the Elder Conservatorium of Music at the discretion of the Director.

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 hours or 14 hours tuition per semester or 14 hours or 28 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 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 or musical performance and pedagogy
- 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

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- 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

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.

Diploma in Wine Marketing

1 Duration of program

The program of study for the diploma, which is only offered externally, shall extend over four years part-time study.

2 Admission

2.1 Status, exemption and credit transfer

2.1.1 Exemption from any part of the program on the first occasion on which a candidate takes a course will be granted only in exceptional cases and on grounds approved by the Faculty.

Note: Partial or full status may be granted on account of International Baccalaureate upon application to the Faculty.

2.1.2 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 diploma may, on written application to the Faculty, be granted status towards such specific requirements as the Faculty shall determine, subject to the following conditions:

a status will normally 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.

b the candidate shall present a range of courses which fulfils the requirements of the relevant Academic Program Rules.

c a candidate shall complete a minimum of 24 units towards the award, as defined in 4.2 below which have not been presented for any other degree.

3 Assessment and examinations

3.1 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 courses for which a Conceded Pass has been obtained up to an aggregate value of 3 units. Courses for which a result of Conceded Pass has been obtained shall not satisfy any prerequisite requirement.

3.3 a A candidate who obtains a Pass or higher grade in a course can not repeat the course.

b A candidate who fails to obtain a Pass or higher grade 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 or their delegate, do written and laboratory or other 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 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.

4 Qualification requirements

4.1 To qualify for the degree a candidate shall pass courses, listed in 5.2 below, to the value of 48 units.

4.2 Academic program

For the award of the Diploma in Wine Marketing a student shall complete all courses listed in the program of study for Level 1 and Level 2 of the Bachelor of Wine Marketing as specified under Academic Program Rule 5.2 for that program.

4.3 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.

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

Bachelor of Agriculture

1 General

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

1.2 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 Agriculture 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

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.

Note: Partial or full status may be granted on account of International Baccalaureate upon application to 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 status will normally 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.

b the candidate shall present a range of courses which fulfils the requirements of the relevant Academic Program Rules.

c a candidate shall complete a minimum of 24 units towards the award, as defined in 5.2 below which have not been presented for any other degree.

4 Assessment and examinations

4.1 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 6 units. Courses for which a result of Conceded Pass has been obtained shall not satisfy any prerequisite requirement.

4.3 a A candidate who obtains a Pass or higher grade in a course can not repeat the course.

b A candidate who fails to obtain a Pass or higher grade 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 or their delegate, do written and laboratory or other 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 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.

5 Qualification requirements

5.1 To qualify for the degree a candidate shall pass courses, listed in 5.2 below, to the value of 72 units.

5.2 Academic program

5.2.1 Level I

Passes in Level I courses which shall include:

Full year

AGRONOMY 1006ARW/BRW
Agricultural Experience I.....3

Semester 1

AGRIC 1000RW Perspectives on
Modern Agriculture I.....3

BIOLOGY 1103RW Cell Biology and Genetics I....3

PLANT SC 1001RW Chemistry and Introductory Biochemistry I 3

Semester 2

AGRIBUS 1009RW Rural Business Planning I 3

BIOLOGY 1203RW Biology of Plants & Animals I .. 3

SOIL&WAT 1000RW Soils & Land Management Systems I 3

STATS 1002RW Data Management and Interpretation 3

5.2.2 Level II

Passes in Level II courses which shall include:

Semester 1

AGRIBUS 2501RW Agricultural Markets & Policy II 3

AGRONOMY 2501RW Introduction to Engineering in Agriculture II 3

PLANT SC 2500WT Microbiology & Invertebrate Biology II 3

SOIL&WAT 2500WT Soil & Water Resources II 3

Semester 2

AGRIBUS 2502RW Rural Finance II 3

AGRONOMY 2500RW Agricultural Experience II ... 3

AGRONOMY 2502RW Production Agronomy II 3

ANIML SC 2503RW Livestock Production Science II 3

5.2.3 Level III

Passes in Level III courses which shall include:

i passes, not conceded passes, in core courses

Semester 1

AGRIBUS 3012RW Rural Business Management III 3

AGRONOMY 3020RW Principles and Practice of Communication III 3

Semester 2

AGRONOMY 3004RW Land Management Systems for the Future III 3

ii passes in additional courses to the value of 15 units chose from

Summer semester

ANIML SC 3019RW Ecology and Management of Vertebrate Pests III 3

ANIML SC 3043RW Animal Biotechnology III ... 3

Full year

PLANT SC 3030AEX/BEX Integrated Weed Management 3

Semester 1

AGRONOMY 3008RW Individual Studies III (Ag) 3

AGRONOMY 3012RW Advanced Agronomy III 3

ANIML SC 3017RW Comparative Animal Physiology III 3

ANIML SC 3045RW Animal Breeding and Genetics III 3

ANIML SC 3046RW Animal Reproduction and Development III 3

HORTICUL 3000WT Production Horticulture III 3

HORTICUL 3001WT Horticultural Systems III .. 3

PLANT SC 3131WT Integrated Pest Management IIIA 3

SOIL&WAT 3002WT Soil Management and Conservation III 3

SOIL&WAT 3016WT Soil Ecology and Nutrient Cycling III 3

Semester 2

AGRIBUS 2009WT Issues in Australian Agribusiness III 3

AGRIBUS 3010WT International Agribusiness Environment III 3

AGRONOMY 3000RW Agroforestry III 3

AGRONOMY 3008RW Individual Studies III (Ag) 3

AGRONOMY 3016RW Crop and Pasture Ecology III 3

AGRONOMY 3026RW Ecology and Management of Rangelands III (MY)* 3

ANIML SC 3015RW Animal Nutrition and Metabolism III 3

ANIML SC 3019RW Animal Health III 3

HORTICUL 3004WT Olive Production and Marketing III (MY)* 3

SOIL&WAT 3010 Remote Sensing (S) III 3

PLANT SC 3004WT Mineral Nutrition of Plants III 3

PLANT SC 3200WT Plant Breeding III 3

SOIL&WAT 3012WT Soil Water Management III 3

SOIL&WAT 3014GT GIS for Agricultural Science III (MS)* 3

or courses selected in consultation with the Program Coordinator.

*(MY) - taught in mid-year break

(MS) - semester 2 course taught in mid-semester break

5.3 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.

5.4 The Honours degree

5.4.1 Candidates completing the Bachelor of Agriculture and 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, may proceed to the Honours degree in the following courses:

ANIML SC 4004 Honours Animal Science 24

HORTICUL 4003AWT/BWT Honours Horticulture 24

PLANT SC 4012WT Honours Plant Science..... 24

SOIL&WAT 4001WT Honours Soil and Land Systems 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 Food Science and Technology

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. A candidate may obtain a Bachelor degree, an Honours degree, or both.

1.2 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

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.

Note: Partial or full status may be granted on account of International Baccalaureate upon application to 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 status will normally 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.

b the candidate shall present a range of courses which fulfils the requirements of the relevant Academic Program Rules.

c a candidate shall complete a minimum of 24 units towards the award, as defined in 5.2 below which have not been presented for any other degree.

4 Assessment and examinations

4.1 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 6 units. Courses for which a result of Conceded Pass has been obtained shall not satisfy any prerequisite requirement.

4.3 a A candidate who obtains a Pass or higher grade in a course can not repeat the course.

b A candidate who fails to obtain a Pass or higher grade 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 or their delegate, do written and laboratory or other 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 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.

5 Qualification requirements

5.1 To qualify for the degree a candidate shall pass courses, listed in 5.2 below, to the value of 72 units.

5.2 Academic program

5.2.1 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

FOOD SC 1001 Consumers, Food and Health..... 3

PHYSICS 1101 Physics for the Life and Earth Sciences IA 3

or

PHYSICS 1008 Physics Principles & Applications I 3

Semester 2

BIOLOGY 1202 Biology I: Organisms 3

CHEM 1200 Chemistry IB 3

or

CHEM 1201 Foundations of Chemistry IB 3

FOOD SC 1000RG Introduction to Food Technology I 3

STATS 1004 Statistical Practice I (Life Sciences) .. 3

5.2.2 Level II

Passes in Level II courses which shall include:

Semester 1

AGRIC 2500WT Animal & Plant Biochemistry II 3

FOOD SC 2501RG Food Engineering Principles II 3

FOOD SC 2503RG Food Processing Technology II 3

PLANT SC 2500WT Microbiology & Invertebrate Biology II 3

Semester 2

BIOMET 2500WT Research Methodology II 3

FOOD SC 2500RG Food Chemistry II 3

FOOD SC 2502RG Food Microbiology II 3

FOOD SC 2504RG Sensory Evaluation of Foods II 3

5.2.3 Level III

Passes in Level III courses which shall include:

Semester 1

Food Science courses:

Industry Experience III 3

FOOD SC 3014RG Food Quality & Regulation III 3

Plant Science course:

Biotechnology in the Food and Wine Industry III .. 3

Wine Marketing course:

Food Marketing III 3

Semester 2

Food Science courses:

Advanced Food Processing and Technology III 3

Nutrition III 3

FOOD SC 3021RG Food Product Development III 3

PLANT SC 3230WT Communication i n the Agri-Food Industry III 3

5.3 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.

5.4 The Honours degree

5.4.1 Candidates completing the Bachelor of Food Science and Technology and 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 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 of 1.2 of that program.

2 Admission

2.1 Status, exemption and credit transfer

2.1.1 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.

Note: Partial or full status for some Level I courses may be granted on account of International Baccalaureate upon application to the Faculty.

2.1.2 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 status will normally 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.

b the candidate shall present a range of courses which fulfils the requirements of the relevant Academic Program Rules.

c a candidate shall complete a minimum of 24 units towards the award, as defined in 4.2 below which have not been presented for any other degree.

3 Assessment and examinations

3.1 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 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 shall not satisfy any prerequisite requirement.

3.3 a A candidate who obtains a Pass or higher grade in a course can not repeat the course.

b A candidate who fails to obtain a Pass or higher grade 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 or their delegate, do written and laboratory or other 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 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.

4 Qualification requirements

4.1 To qualify for the degree a candidate shall pass courses, listed in 4.2 below, to the value of 96 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 and II in accordance with the rules of Bachelor of Science (Viticulture)

b a candidate shall present passes in courses to the value of 24 units at each of Level III and IV in accordance with rules 4.2.1 and 4.2.2 below.

4.2 Academic program

4.2.1 Level III

Passes in Level III courses which shall include:

Semester 1

OENOLOGY 3007WT Stabilisation & Clarification III 3

OENOLOGY 3018WT Cellar and Winery Waste Management III.....3

OENOLOGY 3047WT Winemaking at Vintage III ... 3

VITICULT 3021WT Viticultural Production III 3

Semester 2

AGRIBUS 3017WT Business Management for Applied Science III 3

OENOLOGY 3037WT Distillation, Fortified and Sparkling Winemaking III.....3

OENOLOGY 3046WT Fermentation Technology III 3

CHEM ENG 3007WT Winery Engineering III 3

4.2.2 Level IV

Passes in Level III courses which shall include:

i passes in core courses

Semester 1

Oenology course:

Grape Industry Experience, Practice, Policy and Communication III 6

Semester 2

OENOLOGY 3003WT Wine Packaging and Quality Management III 3

OENOLOGY 3045WT Advances in Oenology III 3

ii passes in additional courses to the value of 12 units chosen from

FREN 3013WT Technical French (Oenology) .. 3

HORTICUL 3004WT Olive Production and Marketing III (MY)* 3

PLANT SC 3002WT Biotechnology in the Food and Wine Industries III 3

SOIL&WAT 3014WT GIS for Agricultural Sciences III 3

OENOLOGY 4002WT Honours Oenology 12

or from courses offered in the Faculty of Sciences selected in consultation with the program coordinator.

*(MY)- taught in mid-year break

4.3 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.

4.4 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 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 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 3010RW International Agri-Business Environment III.....3

AGRIBUS 3012RW Rural Business Management III.....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 2502RW Rural Finance II.....3

WINEMKTG 1015EX Data Analysis for Wine and Food Business I.....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.

General Electives

AGRIBUS 2009WT Issues in Australian Agribusiness II 3

AGRIBUS 3001RW Economics of Resource Management III 3

AGRIBUS 3017WT Business Management of Applied Sciences III 3

WINEMKTG 2500WT Applied Management Science II 3

WINEMKTG 2501WT/EX Applied Market Research II 3

WINEMKTG 2502EX Consumer Behavioural Analysis II 3

WINEMKTG 2505WT/EX Strategic Marketing Management II 3

WINEMKTG 3014WT/EX Food Marketing III 3

WINEMKTG 3034WT/EX Advertising and Promotion III 3

Production Electives

Agronomy

AGRONOMY 2502RW Production Agronomy II 3

AGRONOMY 3004RW Land Management Systems for the Future III 3

AGRONOMY 3012RW Advanced Agronomy III 3

AGRONOMY 3020RW Principles and Practice of Communications III 3

AGRONOMY 3026RW Ecology & Management of Rangelands III (MY)* 3

Animal Production

ANIML SC 2503RW Livestock Production Science II 3

ANIML SC 3015RW Animal Nutrition & Metabolism III 3

ANIML SC 3016RW Animal Health III 3

ANIML SC 3045RW Animal Breeding and Genetics III 3

Horticulture

HORTICUL 3000WT Production Horticulture III 3

HORTICUL 3001WT Horticulture Systems III 3

HORTICUL 3004WT Olive Production III and Marketing (MY)* 3

Soil and Water

SOIL&WAT 3002WT Soil Management and Conservation III 3

SOIL&WAT 3014WT GIS for Agricultural Sciences III 3

SOIL&WAT 3016WT Soil Ecology and Nutrient Cycling III 3

**(MY) - taught in mid-year break*

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 2008 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 2007.

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. A candidate may obtain a Bachelor degree, an Honours degree or both.

1.2 A graduate who has obtained the Honours degree of Bachelor of Arts or the Honours degree of Bachelor of Mathematical Sciences or the Honours degree of Bachelor of Mathematical & 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 degrees shall extend over three years of full-time study or the part-time equivalent and that for the Honours degree over one additional year of full-time study or, subject to approval by the School or Discipline, over two years of part-time study.

Note: Students may commence study in February (Semester 1) or July (Semester 2). However, some courses offered in Semester 2 require prerequisite courses offered in Semester 1.

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.

Note: Partial or full exemption/status for some Level I courses may be granted on account of International Baccalaureate studies upon application to 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 status will normally 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.

b the candidate shall present a range of courses which fulfils the requirements of the relevant Academic Program Rules and

c the candidate shall present courses which satisfy the Level III 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 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 a 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 6 units

b 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 obtains a Pass or higher grade in a course can not repeat the course

b A candidate who fails to obtain a Pass or higher grade in a course or who obtains a Conceded Pass and who desires to take the course again shall, unless exempted wholly or partially there from by the Head of School concerned, undertake written and laboratory and/or other 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 grade 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.

5 Qualification requirements

5.1 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 5.5 below to the value of 72 units which satisfy the following requirements:

a a candidate shall present passes in Level I courses to the value of not more than 30 units

b a candidate shall present passes in Level III courses to the value of at least 24 units

c a candidate shall complete a major in a science discipline as set out in 5.4 below.

In all cases, a candidate may substitute an appropriate course chosen from Level II to fulfil the requirements of Level I, or from Level III to fulfil the requirements of Level I or II.

5.2 As part of the requirements of 5.1 above, a candidate may, in lieu of Level I or II courses, present passes to the value of 9 units, no more than 6 units at Level I, 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 .

5.3 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.

5.4 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

At least three of:

ANAT SC 3101 Anthropological & Forensic Anatomy III....3

ANAT SC 3102 Comparative Reproductive Biology of Mammals III....3

ANAT SC 3103 Integrative & Comparative Neuroanatomy III....3

ANAT SC 3104 Structural Cell Biology III....3

Biochemistry

BIOCHEM 3000 Molecular & Structural Biology III....6

BIOCHEM 3001 Cell & Developmental Biology III..6

Botany

ENV BIOL 3002 Australian Biota: Past, Present and Future III....3

and

ENV BIOL 3009 Ecophysiology of Plants III....3

and an additional Environmental Biology course to the value of 3 units.

Chemistry

CHEM 3111 Chemistry III....6

and at least one of following Chemistry courses:

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

CHEM 3530 Environmental & Analytical Chemistry III....3

CHEM 3540 Research Methods in Chemistry III ...3

Chemistry - Double Major

CHEM 3111 Chemistry III....6

and at least four of following Chemistry courses:

CHEM 3213 Advanced Synthetic Methods III....3

CHEM 3211 Heterocyclic Chemistry & Molecular Devices III....3

CHEM 3212 Materials Chemistry III....3

CHEM 3214 Medicinal & Biological Chemistry III...3

CHEM 3530 Environmental & Analytical Chemistry III....3

CHEM 3540 Research Methods in Chemistry III ...3

Ecology

ENV BIOL 3121 Concepts in Ecology III....3

and at least two of

ENV BIOL 3004 Freshwater Ecology III....3

ENV BIOL 3008 Conservation & Restoration III....3

ENV BIOL 3010 Marine Ecology III....3

SOIL&WAT 3016WT Soil Ecology and Nutrient Cycling III 3

Entomology

ENV BIOL 3011 Evolution and Diversity of Insects III 3

at least 2 of:

ENV BIOL 3002 Australian Biota: Past, Present and Future III 3

or

ENV BIOL 3008 Conservation & Restoration III 3

or

ENV BIOL 3122 Evolution and Palaeobiology III 3

or

PLANT SC 3131WT Integrated Pest Management III 3

Environmental Geoscience

GEOLOGY 3014 Environmental Geoscience Applications III 3

GEOLOGY 3015 Environmental Geoscience Processes III 3

SOIL&WAT 3007WT GIS for Environmental Management III 3

or

SOIL&WAT 3010 Remote Sensing (S) III 3

Geology

GEOLOGY 3013 Tectonics III 3

GEOLOGY 3016 Igneous & Metamorphic Geology III 3

GEOLOGY 3019 Field Geoscience Program III 3

Geophysics

GEOLOGY 3008 Geophysics III 3

GEOLOGY 3017 Petroleum Exploration III 3

GEOLOGY 3018 Mineral Exploration III 3

Genetics

GENETICS 3111 Genes, Genomes & Molecular Evolution III 6

GENETICS 3211 Genetic Expression & Human and Developmental Genetics III 6

Marine Biology

ENV BIOL 3006 Research Methods in Environmental Biology III 3

and

ENV BIOL 3010 Marine Ecology III 3

and either

ENV BIOL 3121 Concepts in Ecology III 3

or

ENV BIOL 3122 Evolution and Palaeobiology III 3

Microbiology and Immunology

MICRO 3000 Infection and Immunity IIIA 6

MICRO 3001 Infection and Immunity IIIB 6

Molecular and 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

PHARM 3010 Pharmacology A III 6

PHARM 3011 Pharmacology B III 6

Physics

PHYSICS 3536 Experimental Physics III 3

PHYSICS 3542 Physics III 6

Physics and Theoretical Physics

Courses to the value of at least 18 units, which include:

PHYSICS 3536 Experimental Physics III 3

and

PHYSICS 3542 Physics III 6

and at least one of

PHYSICS 3006 Advanced Dynamics and Relativity III 3

or

PHYSICS 3544 Quantum Mechanics III 3

Together with additional Physics courses as required:

PHYSICS 3532 Atmospheric & Astrophysics III 3

PHYSICS 3534 Computational Physics III 3

PHYSICS 3540 Optics & Photonics III 3

Theoretical Physics

PHYSICS 3542 Physics III 6

and

PHYSICS 3006 Advanced Dynamics and Relativity III 3

or

PHYSICS 3544 Advanced Quantum Mechanics III 3

Physiology

PHYSIOL 3000 Advanced Systems Physiology III 6

PHYSIOL 3001 Neurobiology III 6

Psychology

PSYCHOL 3020 Doing Research in Psychology: Advanced Research Design, Methods & Analysis 3

and at least three of following Psychology courses:

PSYCHOL 3021 Health & Lifespan Developmental Psychology 3

PSYCHOL 3022 Individual Differences, Personality & Assessment 3

PSYCHOL 3023 Perception, Cognition & Neuropsychology....3

PSYCHOL 3024 Psychology in Society: Advanced....3

PSYCHOL 3025 Psychology, Ideas and Action....3

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 III....3

SOIL&WAT 3012WT Soil Water Management III....3

SOIL&WAT 3016WT Soil Ecology & Nutrient Cycling III....3

and additional courses if required, from the following:

GEOLOGY 3014 Environmental Geoscience Applications III....3

PLANT SC 3004WT Mineral Nutrition of Plants III....3

SOIL&WAT 3004WT Environmental Toxicology & Remediation....3

Spatial Information

SOIL&WAT 3007WT GIS for Environmental Management III....3

or

SOIL&WAT 3010 Remote Sensing (S) III....3

and

SOIL&WAT 3014WT GIS for Agricultural Sciences III....3

and either

GEOLOGY 3015 Environmental Geoscience Processes III....3

or

another Level III course chosen from Soil & Land Systems or Ecology & Evolutionary Biology.

Wildlife

ENV BIOL 3003 Ecophysiology of Animals III....3

ENV BIOL 3008 Conservation and Restoration....3

ENV BIOL 3122 Evolution and Palaeobiology III....3

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. Information on foundation packages is available from the Faculty of Sciences Office or at www.sciences.adelaide.edu.au/current. 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. It is highly recommended that at Level I students take a minimum of 9 units per semester of continuing courses to ensure pathways into Level II science courses. At Level II students are encouraged to take a minimum of 6 units per semester of continuing courses to enable pathways into Level III science courses and the completion of a major.

Full- time students normally take courses with an aggregate value of 24 units at each of levels I, II and III.

2 Work required to complete an Adelaide degree program (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 5.1 and 5.2 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 5.5 with an aggregate units value of 24 including a major in a science discipline.

c With the 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 (MY)*....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.

* (MY) - taught in the mid-year break

5.5 Academic program

5.5.1 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 I....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 I....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

5.5.2 Level I Mathematical & Computer Sciences

APP MTH 1000 Scientific Computing I....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
STATS 1004 Statistical Practice (Life Sciences) I....3

Note: COMP SCI 1003 Internet Computing cannot be presented towards the Bachelor of Science.

5.5.3 Level II Science

Semester 1

ANAT SC 2500 Cells and Tissues II....3
BIOCHEM 2500 Biochemistry II: Molecular and Cell Biology....3
CHEM 2510 Chemistry IIA....3
CHEM 2530 Environmental & Analytical Chemistry II....3
ENV BIOL 2500 Botany II....3
ENV BIOL 2503 Zoology II....3
GENETICS 2510 Genetics IIA....3
GEOLOGY 2500 Sedimentary Geology II....3
GEOLOGY 2501 Structural Geology II....3
MICRO 2500 Microbiology II....3
PHYSICS 2510 Physics IIA....3
PHYSIOL 2510 Human Physiology IIA....3
PSYCHOL 2004 Doing Research in Psychology: Research Design, Methods & Analysis....3
PSYCHOL 2005 Foundations of Health & Lifespan Developmental Psychology....3
SOIL&WAT 2500WT Soil & Water Resources II....3
SOIL&WAT 2501 Spatial Information and Land Evaluation II....3

Semester 2

ANAT SC 2501 Comparative Anatomy of Body Systems II....3
BIOCHEM 2501 Biochemistry II: Metabolism....3
CHEM 2520 Chemistry IIB....3
CHEM 2540 Medicinal & Biological Chemistry II....3
ENV BIOL 2501 Evolutionary Biology II....3
ENV BIOL 2502 Ecology II....3
GENETICS 2520 Genetics IIB....3
GEOLOGY 2502 Igneous and Metamorphic Geology II....3
GEOLOGY 2503 Landscape Processes and Environments II....3
MICRO 2501 Immunology & Virology II....3
PHYSICS 2520 Physics IIB....3
PHYSICS 2530 Astrophysics II....3
PHYSICS 2532 Classical Physics II....3
PHYSICS 2534 Electromagnetism II....3
PHYSIOL 2520 Human Physiology IIB....3
PSYCHOL 2006 Foundations of Perception & Cognition....3
PSYCHOL 2007 Psychology in Society....3

5.5.4 Level II Mathematical & Computer Sciences

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.

5.5.5 Level III Science

Semester 1

ANAT SC 3102 Comparative Reproductive Biology of Mammals III....3
ANAT SC 3103 Integrative and Comparative Neuroanatomy III....3
BIOCHEM 3000 Molecular and Structural Biology III....6
CHEM 3111 Chemistry III....6
CHEM 3112 Chemistry Applications III....6
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 III....3
ENV BIOL 3121 Concepts in Ecology III....3
ENV BIOL 3122 Evolution and Palaeobiology III....3
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
GENETICS 3111 Genes, Genomes and Molecular Evolution III....6
MICRO 3000 Infection and Immunity IIIA....6
PHARM 3010 Pharmacology A III....6
PHYSIOL 3001 Neurobiology III....6
PHYSICS 3006 Advanced Dynamics III....3

PHYSICS 3532 Astrophysics & Atmospheric Physics III....3

PHYSICS 3542 Physics III....6

SOIL&WAT 3016WT Soil Ecology & Nutrient Cycling III....3

SOIL&WAT 3022WT Soil Management & Conservation III....3

Semester 2

AGRONOMY 3000RW Agroforestry III....3

ANAT SC 3101 Anthropological and Forensic Anatomy III....3

ANAT SC 3104 Structural Cell Biology III....3

BIOCHEM 3001 Cell and Developmental Biology III....6

CHEM 3211 Heterocyclic Chemistry and Molecular Devices III....3

CHEM 3212 Materials Chemistry III....3

CHEM 3213 Advanced Synthetic Methods III....3

CHEM 3535 Medicinal and Biological Chemistry III....3

ENV BIOL 3002 Australian Biota: Past, Present & Future III....3

ENV BIOL 3003 Ecophysiology of Animals III....3

ENV BIOL 3008 Conservation & Restoration III....3

ENV BIOL 3009 Ecophysiology of Plants III....3

ENV BIOL 3010 Marine Ecology III....3

ENV BIOL 3012WT Integrated Catchment Management III....3

GEOLOGY 3008 Geophysics III....3

GEOLOGY 3014 Environmental Geoscience Applications III....3

GEOLOGY 3018 Mineral Exploration III....3

GEOLOGY 3019 Field Geoscience Program III....3

GENETICS 3211 Gene Expression and Human and Developmental Genetics....6

MICRO 3001 Infection and Immunity B....6

PHARM 3011 Pharmacology B III....6

PHYSIOL 3000 Advanced Systems Physiology....6

PHYSICS 3534 Computational Physics III....3

PHYSICS 3536 Experimental Physics III....3

PHYSICS 3540 Optics & Photonics III....3

PHYSICS 3544 Quantum Mechanics III....3

PLANT SC 3004WT Mineral Nutrition of Plants III....3

PLANT SC 3009WT Plant Molecular Biology III....6

PLANT SC 3131WT Integrated Pest Management III....3

PLANT SC 3200WT Plant Breeding III....3

PLANT SC 3231WT Insect Ecology III....3

PSYCHOL 3020 Doing Research in Psychology: Advanced Research Design, Methods & Analysis....3

PSYCHOL 3021 Health & Lifespan Developmental Psychology....3

PSYCHOL 3022 Individual Differences, Personality & Assessment....3

PSYCHOL 3023 Perception, Cognition & Neuropsychology....3

PSCYHOL 3024 Psychology in Society: Advanced....3

PSYCHOL 3025 Psychology, Ideas and Action....3

SOIL&WAT 3010 Remote Sensing III....3

SOIL&WAT 3012WT Soil Water Management III....3

SOIL&WAT 3014WT GIS for Agricultural Sciences III....3

Summer semester

SOIL&WAT 3004WT Environmental Toxicology and Remediation III....3

SOIL&WAT 3007WT GIS for Environmental Management III....3

5.5.6 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.

5.6 The Honours degree

5.6.1 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.

5.6.2 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 4004ARW/BRW Honours Animal Science

BIOCHEM 4000A/B Honours Biochemistry

CHEM 4000A/B Honours Chemistry

ENV BIOL 4000A/B Honours Environmental Biology

ENV BIOL 4002A/B Honours Botany and Geology

ENV BIOL 4003A/B Honours Rangeland Science and Management S

GENETICS 4000A/B Honours Genetics

GEOLOGY 4000A/B Honours Geology

GEOLOGY 4001A/B Honours Geophysics

GEOLOGY 4002A/B Honours Environmental Geoscience

HORTICUL 40063AWT/BWT Honours Wine & Horticulture

MICRO 4000A/B Honours Microbiology and Immunology

PETROL 4000ATB/BTB Honours
Petroleum Geology and Geophysics

PHYSICS 4000A/B Honours Physics

PHYSICS 4001A/B Honours Mathematical Physics

PHYSIOL 4000A/B Honours Physiology

PLANT SC 4012AWT/BWT Honours
Plant and Pest Science

SOIL&WAT 4001AWT/BWT Honours
Soil and Land Systems

VITICULT 4006AWT/BWT Honours Viticulture

Note: see calendar entries for the Faculty of Health Sciences for information on Honours programs in Anatomical Sciences, Pharmacology and Psychology.

5.6.3 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.

5.6.4 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.

5.6.5 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.

5.7 Graduation

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

6 Special circumstances

When in the opinion of the 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 Qualification requirements

1.1 To qualify for the degree a candidate shall pass courses, listed in 1.2 below, to the value of 72 units, which satisfy the following requirements:

a a candidate shall present passes in courses to the value of 24 units at each of Level I, II and III

b a candidate 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

c a candidate may complete a major in a discipline as set out in 1.2.3 below.

1.2 Academic program

1.2.1 Level I

Level I courses which shall include:

i passes in core courses

Semester 1

AGRIC 1000RW Perspectives on Modern Agriculture I 3

BIOLOGY 1101 Biology I: Molecules, Genes and Cells 3

CHEM 1100 Chemistry IA 3

or

CHEM 1101 Foundations of Chemistry IA 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 I 3

STATS 1004 Statistical practice I (Life Sciences)* 3

* STATS 1000 Statistical Practice I (offered in semester 1 and 2) may be taken instead of STATS 1004 Statistical practice I (Life Sciences).

ii passes in additional Level I course to the value of 3 units chosen from:

Semester 1

MATHS 1011 Mathematics IA 3

or

MATHS 1013 Mathematics IMA 3

PHYSICS 1008 Physics Principles and Applications I 3

or

PHYSICS 1101 Physics for the Life & Earth Sciences IA 3

Semester 2

ENV BIOL 1002 Ecological Issues I 3

MATHS 1011 Mathematics IA 3

1.2.2 Level II

passes in core courses

Semester 1

AGRIC 2500WT Animal & Plant Biochemistry II 3

ENV BIOL 2500 Botany II 3

PLANT SC 2500WT Microbiology & Invertebrate Biology II 3

SOIL&WAT 2500WT Soil and Water Resources II 3

Semester 2

AGRONOMY 2502RW Production Agronomy II 3

ANIML SC 2501WT Genes and Inheritance II 3

ANIML SC 2503RW Livestock Production Science II 3

BIOMET 2500WT/RW Research Methodology II 3

1.2.3 Level III

Level III courses which shall include:

i passes, not conceded passes, in core courses

Semester 1

BIOMET 3000WT Agricultural Experimentation III 3

Semester 2

PLANT SC 3230WT Communication in the Agrifood Industries III 3

ii passes in additional Level III course to the value of 18 units chosen from the list below. To complete a major in a discipline outlined below, a student must complete a minimum of 9 units from that discipline. Completion of a major is not essential.

Semester 1

AGRONOMY 3012RW Advanced Agronomy III 3

ANIML SC 3017RW Comparative Animal Physiology III 3

ANIML SC 3045RW Animal Breeding and Genetics III 3

ANIML SC 3046RW Animal Reproduction and Development III 3

HORTICUL 3001WT Horticulture Systems III 3

HORTICUL 3004WT Olive Production and Marketing III (MY)* 3

PLANT SC 3130WT Plant Pathology III 3

PLANT SC 3131WT Integrated Pest Management III 3

SOIL&WAT 3002WT Soil Management and Conservation III 3

SOIL&WAT 3016WT Soil Ecology and Nutrient Cycling III 3

VITICULT 3020WT Table and Drying Grape Production III 3

Semester 2

AGRIBUS 3010WT International Agribusiness Environment III 3

AGRIBUS 3017WT Business Management for Applied Science III 3

AGRONOMY 3016RW Crop & Pasture Ecology III 3

AGRONOMY 3026RW Ecology and Management of Rangelands III (MY)* 3

ANIML SC 3015RW Animal Nutrition and Metabolism III 3

ANIML SC 3016RW Animal Health III 3

HORTICUL 3000WT Production Horticulture III 3

PLANT SC 3004WT Mineral Nutrition of Plants III 3

PLANT SC 3009WT Plant Molecular Biology III 6

PLANT SC 3230WT Communication in the Agrifood Industries III 3

SOIL&WAT 3010 Remote Sensing III 3

SOIL&WAT 3012WT Soil Water Management III (MY)* 3

SOIL&WAT 3014WT GIS for Agricultural Sciences III (MS)* 3

Summer semester

ANIML SC 3019RW Ecology & Management of Vertebrate Pests III 3

ANIML SC 3043RW Animal Biotechnology III ... 3

Full year

PLANT SC 3030AEX/BEX Integrated Weed Management III 3

*(MY)- taught in mid-year break

(MS) - semester 2 course taught in mid-semester break

iii Students may substitute up to 9 units of Level III elective courses offered by the Faculty of Sciences, with approval of the BSc (Ag.Sc.) program coordinator.

1.3 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.

1.4 The Honours degree

Refer to Academic Program Rule 5.6 of the degree of Bachelor of Science.

1.5 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.

2 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 Qualification requirements

1.1 To qualify for the degree a candidate shall pass courses, listed in 1.2 below, to the value of 72 units, which satisfy the following requirements:

a a candidate shall present passes in courses to the value of 24 units at each of Level I, II and III

b a candidate 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.

1.2 Academic program

1.2.1 Level I

Level I courses which shall include:

i passes in core courses

Semester 1

ANIML SC 1015RW Perspectives in Animal Science 3

BIOLOGY 1101 Biology I: Molecules, Genes and Cells 3

CHEM 1100 Chemistry IA 3

or

CHEM 1101 Foundations of Chemistry IA 3

Semester 2

ANIML SC 1016RW Principles in Animal Behaviour, Welfare & Ethics I 3

BIOLOGY 1202 Biology I: Organisms 3

CHEM 1200 Chemistry IB 3

or

CHEM 1201 Foundations of Chemistry IB 3

STATS 1004 Statistical Practice 1 (Life Sciences) * 3

ii passes in additional courses to the value of 3 units chosen from:

Semester 1

PHYSICS 1008 Physics Principles and Applications I 3

or

PHYSICS 1101 Physics for the Life and Earth Sciences IA 3

Semester 2

ENV BIOL 1002 Ecological Issues I 3

* STATS 1000 Statistical Practice I (offered in semester 1 and 2) may be taken instead of STATS 1004 Statistical practice I (Life Sciences).

1.2.2 Level II

Level II courses which shall include passes in core courses:

Semester 1

AGRIC 2500RW Animal and Plant Biochemistry II 3

ANIML SC 2014RW Wildlife Management II 3

ANIML SC 2031RW Companion Animal and Equine Studies II 3

ANIML SC 2506RW Comparative Animal Anatomy & Physiology IIA 3

Semester 2

ANIML SC 2501WT Genes and Inheritance II 3

ANIML SC 2503RW Livestock Production Science II 3

ANIML SC 2507RW Comparative Animal Anatomy & Physiology IIB 3

BIOMET 2500RW Research Methodology II 3

1.2.3 Level III

Level III courses which shall include:

i passes, not conceded passes, in core courses

Semester 1

ANIML SC 3045RW Animal Breeding & Genetics III 3

ANIML SC 3100RW Laboratory Animal Science III 3

PLANT SC 2500WT Microbiology and Invertebrate Biology II 3

Semester 2

ANIML SC 3015RW Animal Nutrition & Metabolism III 3

ANIML SC 3016RW Animal Health III 3

ANIML SC 3046RW Animal Reproduction & Development III 3

ii passes in additional courses to the value of 6 units chosen from:

Summer semester

ANIML SC 3019RW Ecology & Management of Vertebrate Pests III 3

ANIML SC 3043RW Animal Biotechnology III 3

Semester 1

AGRONOMY 3020RW Principles & Practice of Communications III 3

BIOMET 3000WT Agricultural Experimentation III 3

Semester 2

AGRIBUS 3017WT Business Management for Applied Science III 3

AGRONOMY 3026RW Ecology and Management of Rangelands III (MY)* 3

Animal Science course:

Animal Behaviour III.....3

*(MY)- taught in mid-year break

1.3 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.

1.4 The Honours degree

Refer to Academic Program Rule 5.6 of the degree of Bachelor of Science.

1.5 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.

2 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 Academic Progress

1.1 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.

1.2 A candidate who does not maintain the level of performance prescribed in 1.1 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.

2 Qualification requirements

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

2.2 To qualify for the degree a candidate shall pass courses, listed in 2.3 below, to the value of 72 units.

2.3 Academic program

2.3.1 Level I

Semester 1

ANIML SC 1017RW Perspectives in Animal Science (Pre-Vet) 3

BIOLOGY 1510 Biology I: Molecules, Genes and Cells (Pre-Vet) 3

CHEM 1510 Chemistry IA (Pre-Vet) 3

or

CHEM 1511 Foundations of Chemistry IA (Pre-Vet) 3

PHYSICS 1501 Physics for the Life and Earth Sciences IA (Pre-Vet) 3

or

PHYSICS 1508 Physics Principles and Applications I (Pre-Vet) 3

Semester 2

ANIML SC 1018RW Principles in Animal Behaviour, Welfare and Ethics I (Pre-Vet) 3

BIOLOGY 1520 Biology I: Organisms (Pre-Vet) 3

CHEM 1520 Chemistry IB (Pre-Vet) 3

or

CHEM 1521 Foundations of Chemistry IB (Pre-Vet) .. 3

STATS 1504 Statistical Practice I (Life Sciences) (Pre-Vet) 3

2.3.2 Level II

Courses in the areas of:

Semester 1

AGRIC 2501RW Animal & Plant Biochemistry II (Pre-Vet) 3

ANIML SC 2504RW Animal Breeding and Genetics II (Pre-Vet) 3

VET SC 2510RW Animal Form & Function IIA (Pre-Vet) 6

Semester 2

ANIML SC 2505RW Animal Nutrition & Metabolism II (Pre-Vet) 3

VET SC 2500RW Veterinary Skills II (Pre-Vet) 3

VET SC 2520RW Animal Form & Function IIB (Pre-Vet) 6

2.3.3 Level III

Courses in the areas of:

Semester 1

Animal Nutrition III 3

Veterinary Immunology III 3

Veterinary Microbiology III 3

Veterinary Parasitology III 3

Semester 2

Veterinary Microbiology III 3

Veterinary Parasitology III 3

Veterinary Pharmacology and Toxicology III 3

Veterinary Skills III 3

2.4 The Honours degree

Refer to Academic Program Rule 5.6 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 (Biomedical Science)

These rules should be read in conjunction with Academic Program Rules parts 2, 3 and 4 of the Bachelor of Science.

1 Qualification requirements

1.1 To qualify for the degree a candidate shall pass courses, listed in 1.2 below, to the value of 72 units, which satisfy the following requirements:

a a candidate shall present passes in courses to the value of 24 units at each of Level I, II and III

b a candidate 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

c a candidate shall complete a major in a discipline as set out in 1.2 below

d a candidate may also complete a major as set out in Academic Program Rule 5.4 of the degree of Bachelor of Science.

1.2 Academic program

1.2.1 Level I

Level I courses which shall include:

i passes in core courses:

Semester 1

BIOLOGY 1101 Biology I: Molecules, Genes and 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

ii passes in additional Level I course to the value of 12 units selected in consultation with the program coordinator and in accordance with Academic Program Rules 5.2, 5.6.1 and 5.6.2 for the degree of Bachelor of Science.

1.2.2 Level II

Level II courses which shall include:

i passes in core courses to the value of 6 units

Semester 1

GENETICS 2511 Genetics IIA (Biomedical Science)....3

and

Semester 2

GENETICS 2522 Genetics IIB (Biomedical Science)....3

or

Semester 1

MICRO 2502 Microbiology II (Biomedical Science)....3

and

Semester 2

MICRO 2503 Immunology and Virology II (Biomedical Science)....3

or

Semester 1

PHYSIOL 2512 Human Physiology IIA (Biomedical Science)....3

and

Semester 2

PHYSIOL 2522 Human Physiology IIB (Biomedical Science)....3

ii passes in courses to the value of 6 units:

Semester 1

ANAT SC 2500 Cells and Tissues II....3

and

Semester 2

ANAT SC 2501Comparative Anatomy of Body Systems II....3

or

Semester 1

BIOCHEM 2500 Biochemistry II: Molecular and Cell Biology....3

and

Semester 2

BIOCHEM 2501 Biochemistry IIB....3

or

Semester 1

GENETICS 2510 Genetics IIA: Foundation of Genetics....3

and

Semester 2

GENETICS 2520 Genetics IIB: Function & Diversity of Genomes....3

or

Semester 1

MICRO 2500 Microbiology II....3

and

Semester 2

MICRO 2501 Immunology and Virology II....3

or

Semester 1

PHYSIOL 2510 Human Physiology IIA: Heart, Lungs and Circulation.....3

and

Semester 2

PHYSIOL 2520 Human Physiology IIB: Homeostasis and Nervous System.....3

iii passes in additional Level II course to the value of 12 units selected in consultation with the program coordinator and in accordance with Academic Program Rules 5.6.3 and 5.6.4 for the degree of Bachelor of Science (including those listed in (ii) above).

1.2.3 Level III

Level III courses which shall include:

i passes in core courses to the value of 12 units:

For a major in Genetics

Semester 1

GENETICS 3111 Genes, Genomes and Molecular Evolution III.....6

Semester 2

GENETICS 3212 Gene Expression and Human and Developmental Genetics III.....6

For a major in Microbiology and Immunology

Semester 1

MICRO 3102 Infection and Immunity IIIA (Biomedical Science).....6

Semester 2

MICRO 3202 Infection and Immunity IIIB (Biomedical Science).....6

For a major in Physiology

Semester 1

PHYSIOL 3102 Human Physiology IIIA (Biomedical Science).....6

Semester 2

PHYSIOL 3202 Human Physiology IIIB (Biomedical Science).....6

ii passes in additional Level III course to the value of 12 units in the disciplines of Anatomical Sciences, Biochemistry, Chemistry, Genetics, Microbiology and Immunology, Pharmacology or Physiology selected in consultation with the program coordinator and in accordance with Academic Program Rules 5.6.5 for the degree of Bachelor of Science.

1.3 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.

1.4 The Honours degree

Refer to Academic Program Rule 5.6 of the degree of Bachelor of Science.

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.

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 Qualification requirements

1.1 To qualify for the degree a candidate shall pass courses, listed in 1.2 below, to the value of 72 units, which satisfy the following requirements:

a a candidate shall present passes in courses to the value of 24 units at each of Level I, II and III

b a candidate 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

c a candidate shall complete a major in a discipline as set out in 1.2 below

d a candidate may also complete a major in a discipline as set out in Academic Program Rule 5.4 of the degree of Bachelor of Science.

1.2 Academic program

1.2.1 Level I

Level I courses which shall include:

i passes in core courses

Semester 1

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

BIOTECH 1000 Introduction to Biotechnology I....3

CHEM 1100 Chemistry IA....3

or

CHEM 1101 Foundations of Chemistry IA....3

CHEM ENG 1004 Introduction to Bio-processing....3

Semester 2

BIOLOGY 1201 Biology I: Human Perspectives....3

and/or

BIOLOGY 1202 Biology I: Organisms....3

CHEM 1200 Chemistry IB....3

or

CHEM 1201 Foundations of Chemistry IB....3

ii passes in additional Level I courses to the value of 6 units selected in consultation with the program coordinator and in accordance with Academic Program Rules 5.2, 5.61 and 5.6.2 for the degree of Bachelor of Science.

1.2.2 Level II

Level II courses which shall include:

i passes in core courses

Semester 1

BIOCHEM 2502 Biochemistry II: Molecular & Cell Biology (Biotechnology) 3

MICRO 2504 Microbiology II (Biotechnology) ...3

Semester 2

CHEM ENG 2015 Principles of Biotechnology II....3

ii passes in additional courses to the value of 15 units selected from:

Semester 1

CHEM 2510 Chemistry IIA 3

GENETICS 2510 Genetics IIA Foundation of Genetics 3

PHYSIOL 2510 Human Physiology IIA 3

Semester 2

BIOCHEM 2503 Biochemistry II: Metabolism (Biotechnology) 3

CHEM 2520 Chemistry IIB 3

CHEM 2540 Medicinal & Biological Chemistry II....3

GENETICS 2520 Genetics IIB Function & Diversity of Genomes....3

MICRO 2505 Immunology & Virology II (Biotechnology)....3

PHYSIOL 2520 Human Physiology IIB 3

or passes in additional Level II course selected in consultation with the program coordinator and in accordance with Academic Program Rules 5.2, 5.6.3 and 5.6.4 for the degree of Bachelor of Science.

1.2.3 Level III

Level III courses which shall include:

i passes, not conceded passes, in core courses:

For a major in Biochemistry

Semester 1

BIOCHEM 3000 Molecular and Structural Biology III....6

Semester 2

BIOTECH 3000 Biotechnology Practice III 6

ii passes in additional Level III course to the value of 12 units chosen from:

Semester 1

CHEM 3111 Chemistry III....6

GENETICS 3111 Genes, Genomes & Molecular Biology III....6

MICRO 3000 Infection and Immunity IIIA....6

PHARM 3010 Pharmacology IIIA....6

PHYSIOL 3001 Neurobiology III....6

Semester 2

BIOCHEM 3001 Cell & Developmental Biology 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

GENETICS 3211 Gene Expression & Human & Developmental Genetics....6

MICRO 3001 Infection and Immunity IIIB....6

PHARM 3011 Pharmacology IIIB....6

PHYSIOL 3000 Advanced Systems Physiology III....6

PLANT SC 3009WT Plant Molecular Biology III....6

1.3 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.

1.4 The Honours degree

Refer to Academic Program Rule 5.6 of the degree of Bachelor of Science.

1.5 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.

2 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 Qualification requirements

1.1 To qualify for the degree a candidate shall pass courses, listed in 1.2 below, to the value of 72 units, which satisfy the following requirements:

a a candidate shall present passes in courses to the value of 24 units at each of Level I, II and III

b a candidate 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

c a candidate shall complete a major in a discipline as set out in Academic Program Rule 5.4 of the degree of Bachelor of Science.

1.2 Academic program

1.2.1 Level I

Level I courses which shall include:

i passes in core courses

Semester 1

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

CHEM 1100 Chemistry IA....3

or

CHEM 1101 Foundations of Chemistry IA....3

GEOLOGY 1103 Earth Systems I....3

Semester 2

BIOLOGY 1202 Biology I: Organisms....3

and/or

ENV BIOL 1002 Ecological Issues I....3

CHEM 1200 Chemistry IB....3

or

CHEM 1201 Foundations of Chemistry IB....3

GEOLOGY 1100 Earth's Interior I....3

ii passes in additional Level I course up to the value of 6 units selected in consultation with the program coordinator and in accordance with Academic Program Rules 5.2, 5.5.1 and 5.5.2 for the degree of Bachelor of Science but not including BIOLOGY 1201 Biology I: Human Perspectives.

1.2.2 Level II

Level II courses which shall include:

i passes in core courses

Semester 1

CHEM 2512 Chemistry IIA (Ecochemistry)....3

CHEM 2530 Environmental & Analytical Chemistry II....3

Semester 2

CHEM 2522 CHEM 2520 Chemistry IIB (Ecochemistry)....3

CHEM 2540 Medicinal & Biological Chemistry II....3

ii passes in Level II courses to the value of 6 units chosen from:

Semester 1

at least one from:

ENV BIOL 2500 Botany II....3

GEOLOGY 2500 Sedimentary Geology II....3

SOIL&WAT 2500WT Soil & Water Resources II....3

Semester 2

at least one from:

ENV BIOL 2502 Ecology II....3

GEOLOGY 2503 Landscape Processes and Environments II....3

iii passes in additional Level II courses to the value of 6 units selected in consultation with the program coordinator and in accordance with Academic Program Rules 5.2 and 5.5.3 for the degree of Bachelor of Science.

1.2.3 Level III

Level III courses which shall include:

i passes, not conceded passes, in core courses:

Semester 1

CHEM 3111 Chemistry III....6

CHEM 3530 Environmental & Analytical Chemistry III....3

Semester 2

CHEM 3211 Heterocyclic Chemistry & Molecular Devices III....3

CHEM 3212 Materials Chemistry III....3

ii passes in additional Level III course to the value of 9 units chosen from:

Summer semester

SOIL&WAT 3004WT Environmental Toxicology and Remediation III....3

Semester 1

CHEM 3540 Research Methods in Chemistry III....3

ENV BIOL 3004 Freshwater Ecology III....3

ENV BIOL 3121 Concepts in Ecology EBII....3

GEOLOGY 3015 Environmental Geoscience Processes III....3

SOIL&WAT 3002WT Soil Management and Conservation III....3

SOIL&WAT 3016WT Soil Ecology and Nutrient Cycling III....3

Semester 2

CHEM 3213 Advanced Synthetic Methods III....3

CHEM 3535 Medicinal & Biological Chemistry 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 (MS)*....3

GEOLOGY 3014 Environmental Geoscience Applications III....3

SOIL&WAT 3010 Remote Sensing III....3

SOIL&WAT 3012WT Soil Water Management III (MY)*....3

*(MY) taught in mid-year break

(MS) semester 2 course taught in mid-semester break

1.3 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.

1.4 The Honours degree

Refer to Academic Program Rule 5.6 of the degree of Bachelor of Science.

1.5 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.

2 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 Qualification requirements

1.1 To qualify for the degree a candidate shall pass courses, listed in 1.2 below, to the value of 72 units, which satisfy the following requirements:

a a candidate shall present passes in courses to the value of 24 units at each of Level I, II and III

b a candidate 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

c a candidate shall complete a major in a discipline as set out in 1.2 below.

1.2 Academic program

1.2.1 Level I

Level I courses which shall include:

i passes in core courses

Semester 1

BIOLOGY 1101 Biology I: Molecules Genes & Cells....3

GEOLOGY 1103 Earth Systems....3

Semester 2

BIOLOGY 1202 Biology I: Organisms....3

GEOLOGY 1100 Earth's Interior I....3

ii passes in additional Level I courses to the value of 12 units chosen from:

Semester 1

CHEM 1100 Chemistry IA....3

or

CHEM 1101 Foundations of Chemistry IA....3

MATHS 1011 Mathematics IA*

or

MATHS 1013 Mathematics IMA....3

Semester 2

ENV BIOL 1002 Ecological Issues I....3

CHEM 1200 Chemistry IB....3

or

CHEM 1201 Foundations of Chemistry IB....3

MATHS 1011 Mathematics IA*....3

or

MATHS 1012 Mathematics IB....3

STATS 1004 Statistical Practice I (Life Sciences) **....3

or courses selected in consultation with the program coordinator and in accordance with . Academic Program Rules 5.2, 5.5.1 and 5.5.2 for the degree of Bachelor of Science.

* may be taken in either Semester 1 or 2

** STATS 1000 Statistical Practice I (offered in semester 1 and 2) may be taken instead of STATS 1004 Statistical Practice I (Life Sciences).

1.2.2 Level II

Level II courses which shall include:

For a major in Palaeontology

i passes in core courses

Semester 1

ENV BIOL 2500 Botany II....3

or

ENV BIOL 2503 Zoology II....3

GEOLOGY 2500 Sedimentary Geology II....3

Semester 2

ENV BIOL 2501 Evolutionary Biology II....3

ii passes in additional Level II courses to the value of 15 units chosen from:

Semester 1

ENV BIOL 2500 Botany II....3

ENV BIOL 2503 Zoology II....3

GENETICS 2510 Genetics IIA: Foundations of Genetics....3

GEOLOGY 2501 Structural Geology II....3

Semester 2

ENV BIOL 2502 Ecology II....3

GENETICS 2520 Genetics IIB: Function & Diversity of Genomes....3

GEOLOGY 2503 Landscape Processes and Environments II....3

or additional courses selected in consultation with the program coordinator and in accordance with Academic Program Rules 5.5.3 for the degree of Bachelor of Science.

For a major in Systematic & Molecular Evolution

i passes in core courses

Semester 1

ENV BIOL 2500 Botany II....3

or

ENV BIOL 2503 Zoology II....3

GENETICS 2510 Genetics IIA: Foundations of Genetics....3

Semester 2

ENV BIOL 2501 Evolutionary Biology II 3

GENETICS 2520 Genetics IIB: Function & Diversity of Genomes.....3

ii passes in additional Level II courses to the value at least 12 units chosen from:

Semester 1

ENV BIOL 2500 Botany II 3

ENV BIOL 2503 Zoology II.....3

GEOLOGY 2500 Sedimentary Geology II 3

Semester 2

ENV BIOL 2502 Ecology II.....3

GEOLOGY 2503 Landscape Processes and Environments II 3

iii or additional courses selected in consultation with the program coordinator and in accordance with Academic Program Rules 5.5.3 for the degree of Bachelor of Science.

1.2.3 Level III

Level III courses which shall include:

For a major in Palaeontology

i passes, not conceded passes, in core courses

Semester 1

ENV BIOL 3122 Evolution & Palaeobiology III 3

Semester 2

ENV BIOL 3002 Australian Biota: Past, Present & Future III 3

ENV BIOL 3123 Issues in Evolutionary Biology III.....3

GEOLOGY 3014 Environmental Geoscience Applications III.....3

ii passes in additional Level III courses to the value of 12 units chosen from:

Semester 1

ENV BIOL 3006 Research Methods in Environmental Biology III.....3

ENV BIOL 3011 Evolution and Diversity of Insects III.....3

ENV BIOL 3121 Concepts in Ecology III 3

GENETICS 3111 Genes, Genomes & Molecular Evolution III.....3

GEOLOGY 3015 Environmental Geoscience Processes III 3

Semester 2

SOIL&WAT 3010 Remote Sensing III.....3

or additional courses selected in consultation with the program coordinator and in accordance with Academic Program Rules 5.5.3 for the degree of Bachelor of Science.

For a major in Systematics & Molecular Evolution

i passes, not conceded passes, in core courses:

Semester 1

ENV BIOL 3122 Evolution & Palaeobiology III 3

GENETICS 3111 Genes, Genomes & Molecular Evolution III.....3

Semester 2

ENV BIOL 3002 Australian Biota: Past, Present & Future III 3

ENV BIOL 3123 Issues in Evolutionary Biology III.....3

ii passes in additional Level III courses to the value of 9 units chosen from:

Semester 1

ENV BIOL 3006 Research Methods in Environmental Biology III.....3

ENV BIOL 3011 Evolution and Diversity of Insects III.....3

ENV BIOL 3121 Concepts in Ecology III 3

GEOLOGY 3015 Environmental Geoscience Processes III 3

Semester 2

ENV BIOL 3003 Ecophysiology of Animals III.. 3

ENV BIOL 3008 Conservation & Restoration III 3

ENV BIOL 3009 Ecophysiology of Plants III....3

ENV BIOL 3010 Marine Ecology III 3

GENETICS 3211 Gene Expression & Human Developmental Genetics III 3

GEOLOGY 3014 Environmental Geoscience Applications III.....3

1.3 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.

1.4 The Honours degree

Refer to Academic Program Rule 5.6 of the degree of Bachelor of Science.

1.5 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.

2 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 2, 3 and 4 of the Bachelor of Science.

1 Duration of program

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

2 Qualification requirements

2.1 To qualify for the degree a candidate shall pass courses, listed in 2.2 below, to the value of 96 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 and IV

b 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

c a candidate may complete a major in a discipline as set out in Academic Program Rule 5.4 of the degree of Bachelor of Science.

2.2 Academic program

2.2.1 Level I

Level I courses which shall include:

i passes in core courses

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

ii passes in additional Level I courses to the value of 6 units chosen from:

Semester 1

APP MTH 1000 Scientific Computing I.....3

CHEM 1100 Chemistry IA 3

ELEC ENG 1009 Electrical & Electronic Engineering IA.....3

Semester 2

CHEM 1200 Chemistry IB 3

or courses selected in consultation with the program coordinator and in accordance with Academic Program Rules 5.2, 5.5.1 and 5.5.2 for the degree of Bachelor of Science.

2.2.2 Level II

Level II courses which shall include:

i passes in core courses

Semester 1

MATHS 2101 Multivariable and Complex Calculus 3

MATHS 2102 Differential Equations 3

PHYSICS 2510 Physics IIA 3

Semester 2

MATHS 2104 Numerical Methods 3

PHYSICS 2532 Classical Physics II.....3

PHYSICS 2534 Electromagnetism II 3

ii passes in additional Level II courses to the value of 6 units chosen from:

Semester 1

COMP SCI 2000 Computer Systems 3

MATHS 2103 Probability and Statistics.....3

Semester 2

Applied Maths Elective I 3

COMP SCI 2005 Systems Programming in C and C++ 3

MATHS 2100 Real Analysis 3

PHYSICS 2520 Physics IIB 3

Pure Maths Elective I 3

or courses selected in consultation with the program coordinator and in accordance with Academic Program Rules 5.5.3 and 5.5.4 for the degree of Bachelor of Science in the disciplines of Applied Mathematics, Computer Science, Physics and Pure Mathematics.

2.2.3 Level III

Level III courses which shall include:

i passes, not conceded passes, in core courses

Semester 1

PHYSICS 3006 Advanced Dynamics and Relativity III 3

PHYSICS 3542 Physics III.....6

Semester 2

PHYSICS 3534 Computational Physics III.....3

PHYSICS 3544 Quantum Mechanics III 3

ii passes in additional Level III course to the value of 9 units chosen from:

Semester 1

APP MTH 3000 Computational Mathematics ..3

PHYSICS 3532 Atmospheric and Astrophysics III 3

Semester 2

PHYSICS 3536 Experimental Physics III 3

PHYSICS 3540 Optics and Photonics III 3

or courses selected in consultation with the program coordinator and in accordance with Academic Program Rules 5.5.5 and 5.5.6 for the degree of Bachelor of Science in the disciplines of Applied Mathematics, Computer Science, Physics and Pure Mathematics.

2.2.4 Level IV

An acceptable standard, in accordance with the Academic Program Rule 5.7 for the Bachelor of Science for the Honours degrees, in

PHYSICS 4000A/B Honours Physics 24

or

PHYSICS 4001A/B Honours Mathematical Physics.....24

including some Level IV content selected in consultation with the program coordinator from COMP SCI 4999 A/B Honours Computer Science.

2.3 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.

2.4 Graduation

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

3 Special circumstances

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

Bachelor of Science (Marine Biology)

These rules should be read in conjunction with Academic Program Rules parts 2, 3 and 4 of the Bachelor of Science.

1 Qualification requirements

1.1 To qualify for the degree a candidate shall pass courses, listed in 1.3 below, to the value of 72 units, which satisfy the following requirements:

a a candidate shall present passes in courses to the value of 24 units at each of Level I, II and III

b a candidate 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

c a candidate may complete a major in a discipline as set out in Academic Program Rule 5.4 of the degree of Bachelor of Science.

1.2 Academic program

1.2.1 Level I

Level I courses which shall include: .....

i passes in core courses

Semester 1

BIOLOGY 1101 Biology I: Molecules Genes & Cells.....3

GEOLOGY 1103 Earth Systems I 3

Semester 2

BIOLOGY 1202 Biology I: Organisms 3

ENV BIOL 1002 Ecological Issues I 3

STATS 1004 Statistical Practice I (Life Sciences) * 3

* STATS 1000 Statistical Practice I (offered in semester 1 and 2) may be taken instead of STATS 1004 Statistical practice I (Life Sciences).

ii passes in additional Level I courses to the value of 9 units selected in consultation with the program coordinator and in accordance with Academic Program Rules 5.2 and 5.5.1 for the degree of Bachelor of Science.

1.2.2 Level II

Level II courses which shall include:

i passes in core courses

Semester 1

ENV BIOL 2500 Botany EBII.....3

ENV BIOL 2503 Zoology II.....3

GEOLOGY 2500 Sedimentary Geology II.....3

Semester 2

ENV BIOL 2502 Ecology II.....3

ii passes in additional Level II course to the value of 12 units chosen from:

Semester 1

GEST 2031 Global Change and Coasts.....3

SOIL&WAT 2501 Spatial Information & Land Evaluation II 3

Semester 2

GEST 2030 Managing Coastal Environments .. 3

GEST 2043 Introduction to Environmental Impact Assessment.....3

or additional courses selected in consultation with the program coordinator and in accordance with Academic Program Rules 5.5.3 for the degree of Bachelor of Science.

1.2.3 Level III

Level III courses which shall include:

i passes in core courses

Semester 1

ENV BIOL 3006 Research Methods in Environmental Biology III.....3

ENV BIOL 3121 Concepts in Ecology III 3

ENV BIOL 3124 Frontiers In Marine Biology III 3

Semester 2

ENV BIOL 3010 Marine Ecology III 3

ENV BIOL 3221 Research Methods in Marine Biology III.....3

ii passes in additional Level III courses to the value of 9 units chosen from:

Summer semester

SOIL&WAT 3007WT GIS for Environmental Management III 3

Semester 1

ENV BIOL 3004 Freshwater Ecology III.....3

GEST 2031 Global Change and Coasts.....3

Semester 2

GEST 2030 Managing Coastal Environments .3

GEST 2043 Introduction to Environmental Impact Assessment.....3

SOIL&WAT 3010 Remote Sensing III.....3

or selected in consultation with the program coordinator and in accordance with Academic Program Rules 5.5.5 for the degree of Bachelor of Science.

1.3 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.

1.4 The Honours degree

Refer to Academic Program Rule 5.6 of the degree of Bachelor of Science.

1.5 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.

2 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 (Mineral Geoscience)

These rules should be read in conjunction with Academic Program Rules parts 2, 3 and 4 of the Bachelor of Science.

1 Qualification requirements

1.1 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.

1.2 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

1.3 Academic program

1.3.1 Level I

Level I courses which shall include:

i passes in core courses

Semester 1

GEOLOGY 1103 Earth Systems I 3

MATHS 1011 Mathematics IA.....3

or

MATHS 1013 Mathematics IMA 3

or

STATS 1000 Statistical Practice I.....3

PHYSICS 1008 Physics Principles & Applications I.....3

or

PHYSICS 1100 Physics IA 3

or

PHYSICS 1101 Physics for the Life & Earth Sciences IA 3

ii passes in an additional Level I course to the value of 3 units selected in accordance with Academic Program Rules 5.2 and 5.5 for the degree of Bachelor of Science from the list below:

CHEM 1100 Chemistry IA 3

CHEM 1101 Foundations of Chemistry IA 3

iii or additional courses selected in consultation with the program coordinator and in accordance with Academic Program Rules 5.5.3 for the degree of Bachelor of Science.

Semester 2

i passes in core courses

GEOLOGY 1100 Earth's Interior I 3

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

ii passes in 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 from the list below:

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

iii any other elective in the Faculty of Sciences

Note: STATS 1004 Statistical Practice I (Life Sciences) may be taken in semester 2 instead of STATS 1000 Statistical Practice I in semester 1.

1.3.2 Level II

Level II courses which shall include:

i passes in core courses

Semester 1

GEOLOGY 2500 Sedimentary Geology II.....3

GEOLOGY 2501 Structural Geology II.....3

GEST 2034 Resource Scarcity & Allocation 3

ii passes in additional Level II courses to the value of 3 units selected in accordance with Academic Program Rules 5.2 and 5.5 for the degree of Bachelor of Science.

Semester 2

GEOLOGY 2502 Igneous & Metamorphic Geology II 3

GEOLOGY 2503 Landscape Processes and Environments II.....3

GEOLOGY 2504 Economic and Mine Geology.....3

GEST 2043 Introduction to Environmental Impact Assessment.....3

1.3.3 Level III

Level III courses which shall include:

i passes in core courses

Semester I

Geology courses:

Mineral Geoscience Research Project III 3

GEOLOGY 3013 Tectonics III 3

GEOLOGY 3016 Igneous and Metamorphic Geology III.....3

ii passes in an additional Level III course to the value of 3 units selected in accordance with Academic Program Rules 5.3 and 5.5 for the degree of Bachelor of Science.

Semester 2

i passes in core courses

GEOLOGY 3008 Geophysics III 3

GEOLOGY 3018 Mineral Exploration III.....3

GEOLOGY 3019 Field Geoscience Program III 3

ii passes in additional Level III courses to the value of 3 units selected in accordance with Academic Program Rules 5.3 and 5.6 for the degree of Bachelor of Science.

1.4 The Honours program

Refer to Academic program rule 5.6 for the degree of Bachelor of Science.

1.5 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.

2 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.

Graduate Attributes

Bachelor of Science (Mineral Geoscience)

Knowledge

On completion of this program, students will:

- Have developed a broad-based and well-founded understanding of geology, earth materials and earth processes
- Have developed knowledge of global geologic environments and an international perspective of geology
- Be able to demonstrate practical techniques for field mapping and field data collection in a variety of geological environments
- Have developed an understanding of how other scientific disciplines such as chemistry, physics mathematics and engineering can be drawn on to increase our understanding of mineral systems
- Be able to define and characterise a geological spatial/temporal problem
- Be familiar with field techniques, quantitative technologies and the minerals industry best practice
- Be able to generate and interpret geochemical, geophysical and structural data in the context of geological exploration and characterisation of a minerals system.

Intellectual & Social Capabilities

- Have the ability to communicate with other scientists, with engineers and with the general public in both oral and written forms of communication
- Be able to interact effectively with others in order to work towards a common outcome.
- Be able select and use the appropriate level, style and means of communication when preparing geological maps, cross sections and scientific reports
- Have developed the ability to work independently, and to organise field work effectively and efficiently
- Have developed the ability to identify a geological problem and create solutions, using current best practice in analysis and interpretation of geological and geophysical data.

Attitudes & Values

- Have an understanding of the highest professional, ethical and safety responsibilities in the field of mineral exploration
- realise there are ethical dimensions to many of the issues associated with their profession, and that these issues have to be considered in decision making
- realise there is a need for ongoing development of improved and sustainable practices in the minerals industry
- understand the processes involved in negotiating and consensus decision-making, especially through the field-based aspects of their program
- have learned the spirit of courtesy and social responsibility which is an essential part of society, through the communal living situation in the field-based parts of their program.

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 Qualification requirements

1.1 To qualify for the degree a candidate shall pass courses, listed in 1.2 below, to the value of 72 units, which satisfy the following requirements:

a a candidate shall present passes in courses to the value of 24 units at each of Level I, II and III

b a candidate 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

c a candidate shall complete a major in a discipline as set out in Academic Program Rule 5.4 of the degree of Bachelor of Science.

1.2 Academic program

1.2.1 Level I

Level I courses which shall include:

i passes in core courses

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 1004 Statistical Practice I (Life Sciences) * 3

* STATS 1000 Statistical Practice I (offered in semester 1 and 2) may be taken instead of STATS 1004 Statistical practice I (Life Sciences).

ii passes in additional Level I course to the value of 9 units selected in consultation with the program coordinator and in accordance with Academic Program Rules 5.2, 5.5.1 and 5.5.2 for the degree of Bachelor of Science

1.2.2 Level II

Level II courses which shall include:

i passes in core courses

Semester 1

BIOCHEM 2500 Biochemistry II: Molecular and Cell Biology 3

CHEM 2514 Chemistry IIA (Molecular and Drug Design) 3

CHEM 2530 Environmental & Analytical Chemistry II....3

Semester 2

BIOCHEM 2501 Biochemistry II: Metabolism ...3

CHEM 2524 Chemistry IIB (Molecular and Drug Design) 3

CHEM 2540 Medicinal and Biological Chemistry II....3

ii passes in additional Level III course to the value of 6 units selected in consultation with the program coordinator and in accordance with Academic Program Rules 5.5.5 for the degree of Bachelor of Science.

1.2.3 Level III

Level III courses which shall include:

i passes, not conceded passes, in 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 3535 Medicinal & Biological Chemistry III....3

ii passes in additional Level III course to the value of 6 units selected in consultation with the program coordinator and in accordance with Academic Program Rules 5.5.5 for the degree of Bachelor of Science.

1.3 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.

1.4 The Honours degree

Refer to Academic Program Rule 5.6 of the degree of Bachelor of Science.

1.5 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.

2 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 Qualification requirements

1.1 To qualify for the degree a candidate shall pass courses, listed in 1.2 below, to the value of 72 units, which satisfy the following requirements:

a a candidate shall present passes in courses to the value of 24 units at each of Level I, II and III

b a candidate 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

c a candidate shall complete a major in a discipline as set out in 1.2 below.

d a candidate may also complete a major as set out in Academic Program Rule 5.4 of the degree of Bachelor of Science.

1.2 Academic program

1.2.1 Level I

Level I courses which shall include:

i passes in core courses

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

ii passes in additional Level I course to the value of 12 units selected in consultation with the program coordinator and in accordance with Academic Program Rules 5.2, 5.5.1 and 5.5.2 for the degree of Bachelor of Science.

1.2.2 Level II

Level II courses which shall include:

i passes in core courses

Semester 1

BIOCHEM 2510 Advanced Molecular Biology IIA 3

CHEM 2510 Chemistry IIA 3

and either

BIOCHEM 2500 Biochemistry II: Molecular and Cell Biology 3

or

GENETICS 2510 Genetics IIA: Foundation of Genetics 3

Semester 2

BIOCHEM 2520 Advanced Molecular Biology B 3

and

CHEM 2520 Chemistry IIB 3

or

CHEM 2540 Medicinal and Biological Chemistry II 3

and either

BIOCHEM 2501 Biochemistry II: Metabolism 3

or

GENETICS 2520 Genetics IIB: Function and Diversity of Genomes 3

ii passes in additional Level II course to the value of 6 units selected in consultation with the program coordinator and in accordance with Academic Program Rules 5.5.3 and 5.5.4 for the degree of Bachelor of Science.

1.2.3 Level III

Level III courses which shall include:

i passes, not conceded passes, in core courses to the value of 12 units

For a major in Biochemistry

Semester 1

BIOCHEM 3125 Advanced Molecular Biology IIIA (Biochemistry) 6

Semester 2

BIOCHEM 3225 Advanced Molecular Biology IIIB (Biochemistry) 6

For a major in Genetics

Semester 1

GENETICS 3110 Advanced Molecular Biology IIIA (Genetics) 6

Semester 2

GENETICS 3210 Advanced Molecular Biology IIIB (Genetics) 6

ii passes in additional Level II course to the value of 12 units selected in consultation with the program coordinator and in accordance with Academic Program Rules 5.5.5 for the degree of Bachelor of Science in the disciplines of Anatomical Sciences, Biochemistry, Chemistry, Genetics, Microbiology and Immunology, Pharmacology or Physiology.

1.3 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.

1.4 The Honours degree

Refer to Academic Program Rule 5.6 of the degree of Bachelor of Science.

1.5 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.

2 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 Qualification requirements

1.1 To qualify for the degree a candidate shall pass courses, listed in 1.2 below, to the value of 72 units, which satisfy the following requirements:

a) a candidate shall present passes in courses to the value of 24 units at each of Level I, II and III

b a candidate 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

c a candidate shall complete a major in a discipline as set out in Academic Program Rule 5.4 of the degree of Bachelor of Science.

1.2 Academic program

1.2.1 Level I

Level I courses which shall include:

i passes in core courses

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

and

BIOLOGY 1101 Biology I: Molecules, Genes and Cells 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

and

BIOLOGY 1201 Biology I: Human Perspectives 3

or

BIOLOGY 1202 Biology I: Organisms 3

ii passes in additional Level I course to the value of 6 units selected in consultation with the program coordinator and in accordance with Academic Program Rules 5.2, 5.5.1 and 5.5.2 for the degree of Bachelor of Science.

* Requires MATHS 1011 Mathematics IA as a corequisite

** Requires MATHS 1012 Mathematics IB as a corequisite

1.2.2 Level II

Level II courses which shall include:

i passes in core courses

Semester 1

CHEM 2516 Chemistry IIA (Nanoscience & Materials) 3

CHEM 2530 Environmental & Analytical Chemistry II 3

Semester 2

CHEM 2526 Chemistry IIB (Nanoscience & Materials) 3

CHEM 2540 Medicinal and Biological Chemistry II 3

ii passes in additional Level II course to the value of 12 units selected in consultation with the program coordinator and in accordance with Academic Program Rules 5.2, 5.5.3 and 5.5.4 for the degree of Bachelor of Science.

1.2.3 Level III

Level III courses which shall include:

i passes, not conceded passes, in core courses

Semester 1

CHEM 3111 Chemistry III 6

Semester 2

CHEM 3211 Heterocyclic Chemistry & Molecular Devices III 3

CHEM 3212 Materials Chemistry III 3

CHEM 3213 Advanced Synthetic Methods III 3

ii passes in additional Level III course to the value of 9 units selected in consultation with the program coordinator and in accordance with Academic Program Rules 5.5.5 and 5.5.6 for the degree of Bachelor of Science.

1.3 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.

1.4 The Honours degree

Refer to Academic Program Rule 5.6 of the degree of Bachelor of Science.

1.5 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.

2 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 Qualification requirements

1.1 To qualify for the degree a candidate shall pass courses, listed in 1.2 below, to the value of 72 units, which satisfy the following requirements:

a a candidate shall present passes in courses to the value of 24 units at each of Level I, II and III

b a candidate 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.

1.2 Academic program

1.2.1 Level I

Level I courses which shall include:

i passes in core courses

Semester 1

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

GEOLOGY 1103 Earth Systems I....3

Semester 2

BIOLOGY 1202 Biology I: Organisms....3

ENV BIOL 1002 Ecological Issues I....3

GEOLOGY 1100 Earth's Interior I....3

STATS 1004 Statistical Practice I (Life Sciences) *....3

ii passes in additional Level I course to the value of 6 units chosen from:

CHEM 1100 Chemistry IA....3

or

CHEM 1101 Foundations of Chemistry IA....3

or Level I courses selected in consultation with the program coordinator and in accordance with Academic Program Rules 5.2, 5.5.1 and 5.5.2 for the degree of Bachelor of Science.

* STATS 1000 Statistical Practice I (offered in semester 1 & 2) may be taken instead of STATS 1004 Statistical Practice I (Life Sciences).

1.2.2 Level II

Level II courses which shall include:

i passes in core courses

Semester 1

ENV BIOL 2500 Botany II....3

GEOLOGY 2500 Sedimentary Geology II....3

SOIL&WAT 2500WT Soil & Water Resources II....3

SOIL&WAT 2501 Spatial Information and Land Evaluation II....3

Semester 2

ENV BIOL 2502 Ecology II....3

ii passes in additional Level II course to the value of 9 units chosen from:

GEOLOGY 2503 Landscape Processes & Environments II....3

GEST 2027 Introduction to Environmental Impact Assessment....3

or from Level II courses selected in consultation with the program coordinator and in accordance with Academic Program Rules 5.2, 5.5.3 and 5.5.4 for the degree of Bachelor of Science.

1.2.3 Level III

Level III courses which shall include:

i passes, not conceded passes, in core courses

Semester 1

AGRONOMY 3020RW Principles and Practice of Communications III....3

Semester 2

ENV BIOL 3220 Issues in Sustainable Environments III....3

SOIL&WAT 3007WT GIS for Environmental Management III*....3

or

SOIL&WAT 3014WT GIS for Agricultural Sciences III....3

* Summer semester

ii passes in additional Level III course to the value of 15 units chosen from at least two of the following thematic groupings (at least 6 units chosen in each of the chosen thematic grouping):

Land & Water Management

Summer semester

SOIL&WAT 3004WT Environmental Toxicology & Remediation III....3

Semester 1

SOIL&WAT 3002WT Soil Management & Conservation III....3

SOIL&WAT 3016WT Soil Ecology & Nutrient Cycling III....3

Semester 2

AGRONOMY 3000RW Agroforestry III....3

AGRONOMY 3026RW Ecology & Management of Rangelands III (MY)*....3

ENV BIOL 3012WT Integrated Catchment Management III....3

*(MY) - taught in mid-year break

Conservation & Wildlife Ecology

Full year

PLANT SC 3030AEX/BEX Integrated Weed Management III 3

Semester 1

ENV BIOL 3004 Freshwater Ecology III..... 3

ENV BIOL 3006 Research Methods in Environmental Biology III..... 3

ENV BIOL 3121 Concepts in Ecology III 3

Semester 2

ENV BIOL 3010 Marine Ecology III 3

ENV BIOL 3008 Conservation & Restoration III 3

Environmental Geoscience

Semester 1

GEOLOGY 3015 Environmental Geoscience Processes III 3

SOIL&WAT 3002WT Soil Management & Conservation III..... 3

Semester 2

SOIL&WAT 3010 Remote Sensing III..... 3

GEOLOGY 3014 Environmental Geoscience Applications III 3

1.3 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.

1.4 The Honours degree

Refer to Academic Program Rule 5.6 of the degree of Bachelor of Science.

1.5 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.

2 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 Qualification requirements

1.1 To qualify for the degree a candidate shall pass courses, listed in 1.2 below, to the value of 72 units, which satisfy the following requirements:

a a candidate shall present passes in courses to the value of 24 units at each of Level I, II and III

b a candidate 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

c a candidate shall complete a major in a discipline as set out in Academic Program Rule 5.4 of the degree of Bachelor of Science.

1.2 Academic program

1.2.1 Level I

Level I courses which shall include:

i passes in core courses

Semester 1

PHYSICS 1100 Physics IA 3

MATHS 1011 Mathematics IA 3

Semester 2

PHYSICS 1200 Physics IB 3

MATHS 1012 Mathematics IB 3

ii passes in additional Level I courses to the value of 12 units chosen from:

Semester 1

APP MTH 1000 Scientific Computing I 3

CHEM 1100 Chemistry IA 3

COMP SCI 1008 Computer Science IA 3

COMP SCI 1009 Computer Science IB 3

ELEC ENG 1009 Electrical & Electronic Engineering IA 3

Semester 2

CHEM 1200 Chemistry IB 3

COMP SCI 1008 Computer Science IA 3

COMP SCI 1009 Computer Science IB 3

or courses selected in consultation with the program coordinator and in accordance with Academic Program Rules 5.2, 5.5.1 and 5.5.2 for the degree of Bachelor of Science.

1.2.2 Level II

Level II courses which shall include:

i passes in core courses

Semester 1

MATHS 2101 Multivariable and Complex Calculus 3

MATHS 2102 Differential Equations 3

PHYSICS 2510 Physics IIA 3

Semester 2

PHYSICS 2525 Physics IIB (Optics & Photonics) 3

PHYSICS 2532 Classical Physics II 3

PHYSICS 2534 Electromagnetism II 3

ii passes in additional Level II course to the value of 6 units chosen from:

Semester 1

CHEM 2510 Chemistry IIA 3

ELEC ENG 2008 Electronics II 3

MATHS 2103 Probability & Statistics 3

PURE MTH 2106 Algebra 3

Semester 2

CHEM 2520 Chemistry IIB 3

ELEC ENG 2007 Signals and Systems II 3

MATHS 2100 Real Analysis 3

PHYSICS 2530 Astrophysics II 3

or courses selected in consultation with the program coordinator and in accordance with Academic Program Rules 5.2, 5.5.3 and 5.5.4 for the degree of Bachelor of Science.

1.2.3 Level III

Level III courses which shall include:

i passes, not conceded passes, in core courses

Semester 1

PHYSICS 3542 Physics III 6

Semester 2

PHYSICS 3537 Experimental Physics III (Optics & Photonics) 3

PHYSICS 3540 Optics and Photonics III 3

PHYSICS 3544 Quantum Mechanics III 3

ii passes in additional Level III course to the value of 9 units chosen from:

Semester 1

APP MATHS 3017 Waves III 3

ELEC ENG 3016 Control III 3

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

PHYSICS 3532 Atmospheric and Astrophysics III.....3

PHYSICS 3006 Advanced Dynamics and Relativity III.....3

Semester 2

ELEC ENG 3019A/B Practical Electrical and Electronic Design III.....3

PHYSICS 3534 Computational Physics III.....3

or courses selected in consultation with the program coordinator and in accordance with Academic Program Rules 5.5.5 and 5.5.6 for the degree of Bachelor of Science.

1.3 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.

1.4 The Honours degree

Refer to Academic Program Rule 5.6 of the degree of Bachelor of Science.

1.5 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.

2 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 Qualification requirements

1.1 To qualify for the degree a candidate shall pass courses, listed in 1.2 below, to the value of 72 units, which satisfy the following requirements:

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

d 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.

1.2 Academic program

1.2.1 Level I

Level I courses which shall include:

i passes in core courses

Semester 1

GEOLOGY 1103 Earth Systems I 3

MATHS 1011 Mathematics IA 3

or

MATHS 1013 Mathematics IMA 3

Semester 2

GEOLOGY 1100 Earth's Interior I 3

MATHS 1011 Mathematics IA 3

or

MATHS 1012 Mathematics IB 3

ii passes in additional Level I courses to the value of 12 units selected in accordance with Academic Program Rules 5.2, 5.5.1 and 5.5.2 for the degree of Bachelor of Science, which must include at least one of the following per semester:

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

PHYSIC 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

1.2.2 Level II

Level II courses which shall include:

passes in core courses

Semester 1

GEOLOGY 2500 Sedimentary Geology II 3

GEOLOGY 2501 Structural Geology II 3

PETROENG 1005 Intro to Petroleum Geosciences & the Oil Industry 3

PETROENG 2010 Drilling Engineering 3

Semester 2

GEOLOGY 2502 Igneous & Metamorphic Geology II 3

GEOLOGY 2503 Landscape Processes and Environments II 3

PETROENG 1006 Introduction to Petroleum Engineering 3

PETROENG 2009 Formation Evolution, Petrophysics & Rock Properties 3

1.2.3 Level III

Level III courses which shall include passes in core courses : .....

Semester 1

GEOLOGY 3013 Tectonics III 3

GEOLOGY 3017 Petroleum Exploration III 3

GEOLOGY 3020 Reservoir Geoscience Project III 3

PETROENG 3002 Economic Valuation 3

Semester 2

GEOLOGY 3019 Field Geoscience Program III 3

PETROENG 3005 Reservoir Characterisation & Modelling 3

PETROENG 3019 Structural Geology & Seismic Methods 3

SOIL&WAT 3010 Remote Sensing III 3

1.3 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.

1.4 The Honours degree

Refer to Academic Program Rule 5.6 of the degree of Bachelor of Science.

1.5 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.

2 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 Qualification requirements

1.1 To qualify for the degree a candidate shall pass courses, listed in 1.2 below, to the value of 72 units, which satisfy the following requirements:

a a candidate shall present passes in courses to the value of not more than 30 units at Level I

b candidate shall present passes in courses to the value of at least 24 units at Level III

c 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

d a candidate may complete a major in a discipline as set out in Academic Program Rule 5.4 of the degree of Bachelor of Science.

1.2 Academic program

1.2.1 Level I

Level I courses which shall include:

i passes in core courses

Semester 1

MATHS 1011 Mathematics IA.....3

PHYSICS 1007 Space Science & Astrophysics I.....3

PHYSICS 1100 Physics IA 3

Semester 2

MATHS 1012 Mathematics IB.....3

PHYSICS 1200 Physics IB 3

ii passes in additional Level I courses to the value of not more than 9 units chosen from:

APP MATH 1000 Scientific Computing I.....3

GEOLOGY 1100 Earth's Interior I 3

PHYSICS 1005 Physics, Ideas and Society I...3

STATS 1000 Statistical Practice I.....3

or selected in consultation with the program coordinator and in accordance with Academic Program Rules 5.2, 5.5.1 and 5.5.2 for the degree of Bachelor of Science.

1.2.2 Level II

Level II courses which shall include:

i passes in core courses

Semester 1

MATHS 2101 Multivariable and Complex Calculus 3

MATHS 2102 Differential Equations 3

PHYSICS 2510 Physics IIA 3

Semester 2

PHYSICS 2520 Physics IIB 3

PHYSICS 2534 Electromagnetism II 3

PHYSICS 2536 Space Science and Astrophysics II.....3

ii passes in additional Level II courses chosen from:

Semester 2

PHYSICS 2532 Classical Physics II.....3

or selected in consultation with the program coordinator and in accordance with Academic Program Rules 5.2, 5.5.3 and 5.5.4 for the degree of Bachelor of Science , or selected courses listed for the Bachelor degree of Engineering (Aerospace).

1.2.3 Level III

Level III courses which shall include:

i passes, not conceded passes, in core courses

Semester 1

PHYSICS 3532 Atmospheric and Astrophysics III 3

PHYSICS 3542 Physics III.....6

Semester 2

PHYSICS 3536 Experimental Physics III 3

ii passes in additional Level III course to the value of 12 units chosen from:

Semester 2

PHYSICS 3534 Computational Physics III.....3

PHYSICS 3540 Optics and Photonics III .....

or courses selected in consultation with the program coordinator and in accordance with Academic Program Rules 5.5.5 and 5.5.6 for the degree of Bachelor of Science or selected courses listed for the Bachelor degree of Engineering (Aerospace).

1.3 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.

1.4 The Honours degree

Refer to Academic Program Rule 5.6 of the degree of Bachelor of Science.

1.5 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.

2 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 Qualification requirements

1.1 To qualify for the degree a candidate shall pass courses, listed in 1.2 below, to the value of 72 units, which satisfy the following requirements:

a a candidate shall present passes in courses to the value of 24 units at each of Level I, II and III

b a candidate 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.

1.2 Academic program

1.2.1 Level I

Level I courses which shall include passes in core courses:

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 I 3

PHYSICS 1101 Physics for the Life and Earth Sciences IA 3

or

PHYSICS 1008 Physics Principles & 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

1.2.2 Level II

Level II courses which shall include passes in core courses

Semester 1

AGRIC 2500WT Animal & Plant Biochemistry II ... 3

ENV BIOL 2500 Botany II 3

OENOLOGY 2501WT Microbiology for Viticulture and Oenology II 3

SOIL&WAT 2500WT Soil & Water Resources II 3

Semester 2

ANIML SC 2501WT Genes & Inheritance II 3

OENOLOGY 2502WT Sensory Studies II 3

OENOLOGY 2503WT Introductory Winemaking II ... 3

VITICULT 2500WT Viticultural Science II 3

1.2.3 Level III

Level III courses which shall include:

i passes, not conceded passes, in core courses:

Semester 1

AGRONOMY 3130WT Viticultural Engineering and Irrigation III 3

PLANT SC 3131WT Integrated Pest Management IIIA 3

VITICULT 3021WT Viticultural Production III ... 3

Semester 2

AGRIBUS 3017WT Business Management for Applied Science III 3

VITICULT 3043WT Industry Experience (Viticulture) IIIA 3

VITICULT 3044WT Viticultural Methods and Procedures III 3

ii passes in additional Level III course to the value of 6 units chosen from:

Full year

PLANT SC 3030AEX/BEX Integrated Weed Management III 3

Semester 1

HORTICUL 3004WT Olive Production and Marketing III (MY)* 3

OENOLOGY 3016WT Cellar & Winery Waste Management III 3

OENOLOGY 3047WT Winemaking at Vintage III 3

OENOLOGY 3307WT Stabilisation and Clarification III 3

PLANT SC 3002WT Biotechnology in the Food and Wine Industries III 3

PLANT SC 3130WT Plant Pathology III 3

SOIL&WAT 3002WT Soil Management and Conservation III 3

SOIL&WAT 3016WT Soil Ecology and Nutrient Cycling III 3

Viticulture course:

Grape Industry Practice, Policy and Communication III 3

Semester 2

ENV BIOL 3009 Ecophysiology of Plants III....3

FREN 3103WT Technical French (Oenology)...3

PLANT SC 3004WT Mineral Nutrition of Plants III.....3

SOIL&WAT 3012WT Soil Water Management III 3

SOIL&WAT 3014WT GIS for Agricultural Science III (MS)*.....3

or Level III courses selected in consultation with the program coordinator and in accordance with Academic Program Rules 5.5.5 for the degree of Bachelor of Science.

*(MY) - taught in mid-year break

(MS) - semester 2 course taught in mid-semester break

1.3 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.

1.4 The Honours degree

Refer to Academic Program Rule 5.6 of the degree of Bachelor of Science.

1.5 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.

2 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 Wine Marketing

1 General

1.1 There shall be a Bachelor of Wine Marketing and an Honours degree of Bachelor of Wine Marketing.

1.2 A candidate may obtain a Bachelor degree, an Honours 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, in exceptional circumstances, over two years of part-time study.

3 Admission

3.1 Status, exemption and credit transfer

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 exceptional cases and on grounds approved by the Faculty.

Note: Partial or full status may be granted on account of International Baccalaureate upon application to 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 status will normally 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.

b the candidate shall present a range of courses which fulfils the requirements of the relevant Academic Program Rules.

c a candidate shall complete a minimum of 24 units towards the award, as defined in 5.2 below which have not been presented for any other degree.

4 Assessment and examinations

4.1 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 6 units. Courses for which a result of Conceded Pass has been obtained shall not satisfy any prerequisite requirement.

4.3 a A candidate who obtains a Pass or higher grade in a course can not repeat the course.

b A candidate who fails to obtain a Pass or higher grade 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 or their delegate, do written and laboratory or other 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 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.

5 Qualification requirements

5.1 To qualify for the degree a candidate shall pass courses, listed in 5.2 below, to the value of 72 units.

5.2 Academic program

5.2.1 Level I

Passes in Level I courses:

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 I.....3

OENOLOGY 1000NW/1000EX Introductory Grape and Wine Knowledge 3

WINEMKTG 1013WT/1013EX Wine and Food Marketing Principles I.....3

Semester 2

ACCTING 1002 Accounting for Decision Makers 3

or

WINEMKTG 1008EX Introduction to Managerial and Financial Accounting I 3

COMMLAW 1004 Commercial Law I (S)..... 3

or

WINEMKTG 1003EX Legal Issues in Wine Marketing I..... 3

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

or

WINEMKTG 1063EX Macroeconomic Essentials for Wine and Food Business I 3

OENOLOGY 1001NW/1001EX Vineyard and Winery Operations I..... 3

5.2.2 Level II

Level II courses which shall include:

i passes in core courses:

Semester 1

AGRIBUS 2500EX Introduction to Business Management II 3

or

WINEMKTG 2500WT Applied Management Science II 3

OENOLOGY 2500NW/2500EX Vineyard and Winery Operations II 3

Semester 2

WINEMKTG 2501WT/2501EX Applied Marketing Research II 3

WINEMKTG 2503WT/2503EX International Marketing of Wine & Agricultural Products II... 3

ii passes in additional Level II course to the value of 12 units selected in consultation with the Program Coordinator

5.2.3 Level III

Level III courses which shall include:

i passes, not conceded passes, in core courses

Semester 1

WINEMKTG 3500WT/3500EX Global Wine Market III..... 3

WINEMKTG 3507WT/3507EX Wine Retail and Distribution Management III 3

Semester 2

WINEMKTG 3501WT/3501EX Winery Business Management III..... 6

WINEMKTG 3505WT/3505EX Wine and Food Tourism and Festivals III..... 3

ii passes in additional courses to the value of 9 units chosen from:

Semester 1

WINEMKTG 2506WT/2506EX Wine and Society II 3

WINEMKTG 2504WT/2504EX International Wine Law II..... 3

WINEMKTG 3503WT/3503EX Food Marketing III..... 3

WINEMKTG 3504WT/3504EX Internet Marketing and E-Commerce III 3

Semester 2

AGRIBUS 2009WT Issues in Australian Agribusiness II..... 3

AGRIBUS 3010WT International Agribusiness Environment III 3

WINEMKTG 2505WT/2505EX Strategic Marketing Management II..... 3

WINEMKTG 3506WT/3506EX Database Marketing for Food and Wine Business III 3

It is recommended that students wishing to specialise in marketing include the following courses amongst their electives:

Semester 1

WINEMKTG 3502WT/3502EX Advertising and Promotion III 3

Semester 2

MARKETNG 2501 Consumer Behaviour II..... 3

or

WINEMKTG 2502EX Consumer Behavioural Analysis II..... 3

It is recommended that students wishing to specialise in finance, economics and trade include the following courses amongst their electives:

Semester 1

ECON 2506 Intermediate Microeconomics II.. 3

ECON 3506 International Trade III..... 3

Semester 2

ECON 2507 Intermediate Microeconomics II.... 3

ECON 2500 International Trade & Investment Policy II..... 3

or additional courses offered by the Faculty of Sciences or any courses in the Bachelor of Commerce or Bachelor of Economics for which the student is eligible to enrol.

5.3 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.

5.4 The Honours degree

5.4.1 Candidates completing the Bachelor of Wine Marketing and to a standard which is acceptable to the Faculty may proceed to the Honours degree.

5.4.2 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.

5.4.3 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 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.

1 General

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

To qualify for the award of the degree of B.Sc. students must pass courses listed in Academic Program Rule 5.5 of the Rules for the degree of Bachelor of Science in the Faculty of Sciences to a minimum unit value of 48, 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 12 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

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). Includes participation in master classes.

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 40%, end of semester exams 40%, 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.

This 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 (voice). Includes participation in master classes.

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: Tests 37.5%, assignments 22.5%, 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 study of music through research 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 Kaurna 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 CASM chior; Torres Strait Islander dance; 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: Assignments and tests 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%, assignments and tests 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: Assignments and class tests 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 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 Distinction in 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: Assignments and class tests 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, 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 trip10%, performance workbook 10%

The development of ensemble and performance skills through group rehearsals, in-house performance workshops, performance activities which may include public performances/school or community workshops/ tours as determined and approved by the Department, a recording project and a field studies trip to the Anangu Pitjantjatjara Lands. Includes the application of learning skills/behaviours; the development of repertoire, arranging skills and rehearsal techniques; and the application of 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). Includes participation in master classes.

MUSIC 2009A/B
Performance II CM

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 trip10%, performance workbook 10%

The development of ensemble and performance skills through group rehearsals, in-house performance workshops, performance activities which may include public performances/school or community workshops/ tours as determined and approved by the Department, a recording project and a field studies trip to the Anangu Pitjantjatjara Lands. Includes the application of learning skills/behaviours; the development of repertoire, arranging skills and rehearsal techniques; and the application of 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%, assignments and tests 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: Attendance/participation 25%, journal/project portfolio 15%, verbal report 20%, project evaluation report 20%, field studies analysis 10%

Students undertake a negotiated project approved by the course lecturer and Academic Coordinator. Projects will focus on issues of the arts and society and will include direct engagement with the community. Continuous project development with assistance from the course lecturer as required, including written and verbal reports will form the core of the courde. This course also requires participation in the field studies visit to the Anangu Pitjantjatjara Lands.

MUSIC 2017A/B
General Studies (New) II

3 units - full year

contact hours vary according to the topic/s chosen

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 CASM Choir; Torres Strait Islander dance; 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 20%, Field Studies Workbook 10%, research journal 20%, class report 15%, final report 25%

Students 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 possible applications of research.

The course 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). Includes participation in master classes.

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

Quota applies for semester 1

Incompatible: not to be counted with 3086

Assessment: Written exam 70%, assignments/class test 30%

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-BCom 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.

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

Quota applies for semester 1

Incompatible: not to be counted with 3086

Assessment: Written exam 70%, assignments/class test 30%

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.

LEVEL II

ACCTING 2500
Management Accounting II

3 units - semester 1 or 2

2 lectures, 1 tutorial, 9 hours self-directed study per week

Prerequisite: ACCTING 1002

Assumed Knowledge: Basic computer literacy using MS Office software

Assessment: Exam, assignment as determined at first lecture

This course seeks to give an understanding of the ways in which management accountants can provide relevant information for a variety of decisions to be made in managing any organisation. On completion of this course, students should be able to identify, use and interpret the results of costing techniques appropriate to different activities and decisions; formulate and use standards and budgets for planning and control purposes; understand the role of responsibility accounting and performance measurement; understand the behavioural implications of performance measurement and transfer pricing systems in divisionalised businesses; appreciate the need to relate management accounting systems to contemporary thinking about organisational planning and control.

ACCTING 2501
Financial Accounting II

3 units - summer semester or semester 1

2 lectures, 1 workshop, 8 hours self-directed study per week

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 1

2 lectures, 1 tutorial, 8 hours self-directed study per week

Available for Non-Award Study

Prerequisite: ACCTING 2010, ACCTING 2501

Assessment: 3 hour exam, assignments as determined at first lecture

Topics may include accounting history, theory development in accounting, normative accounting theories, positive accounting theory, standard setting in a theoretical and political framework, 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 or CORPFIN 2500, ECOMMRCE 1000, ACCTING 2010 or ACCTING 2501 - or similar syllabus content

Assessment: 3 hour exam, work completed during course, as determined at preliminary lecture

Topics may include 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 - summer semester or semester 2

2 lectures, 1 hour tutorial, 8 hours self-directed study per week

Available for Non-Award Study

Prerequisite: ACCTING 2010 or ACCTING 2501

Assumed Knowledge: Level I & II courses in relevant degree program

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.

ACCTING 3500
Accounting Theory III

3 units - semester 2 (Not offered until 2010)

2 lectures, 1 tutorial, 8 hours self-directed study per week

Assumed Knowledge: ACCTING 2010 or ACCTING 2501

Assessment: 3 hour exam, assignments as determined at first lecture

Topics may include accounting history, theory development in accounting, normative accounting theories, positive accounting theory, standard setting in a theoretical and political framework, ethics in accounting, behavioural accounting, and social and environmental accounting issues.

ACCTING 3501
Corporate Accounting III

3 units - semester 1 (Not offered until 2010)

2 lectures, 2 hour workshop, 8 hours self-directed study per week

Prerequisite: ACCTING 1005

Assumed Knowledge: CORPFIN 2006 or CORPFIN 2500, ECOMMRCE 1000, ACCTING 2010 or ACCTING 2501 - 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 3502
Auditing III

3 units - semester 2 (Not offered until 2010)

2 lectures, 1 hour tutorial, 8 hours self-directed study per week

Prerequisite: ACCTING 2010 OR ACCTING 2501

Assumed Knowledge: Level I & II courses in relevant degree program

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.

ACCTING 3503
Advanced Management Accounting III

3 units - Semester 1 or 2 (Not offered until 2010)

Assessment: exam 50-80%, assignment & tutorial work as agreed in first lecture

Syllabus details to be advised.

Agricultural Business

LEVEL I

AGRIBUS 1009RW
Rural Business Planning I

3 units - semester 2

3 hour lecture, 2 hour 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 2009WT
Issues in Australian Agribusiness II

3 units - semester 2

2 hour lecture, 1 hour tutorial per week

Assumed Knowledge: General marketing concepts

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 2500EX
Introduction to Business Management II

3 units - semester 1

None: External

Available for Non-Award Study

Assessment: Assignments, Exam

Introduction to management, evolution of management, management environments, decision making, planning, strategic management, organising, organisational strucutre, human resourse management, managing change and innovation, behaviour, motivation, leadership, communication, control, operations management, international management.

AGRIBUS 2501RW
Agricultural Markets and Policy II

3 units - semester 1

2 hour lecture, 1 hour tutorial per week

Assessment: Essay/s oral presentation/s & exam

This course provides a basic understanding of the nature, function and structure of agricultural markets, including the economics of commodity markets and of market failure, the role of international trade policy, and how governmental policy, at home and abroad, impacts on producers in Australia.

AGRIBUS 2502RW
Rural Finance II

3 units - semester 2

2 hour lecture, 1 hour 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.

LEVEL III

AGRIBUS 3010WT
International Agri-Business Environment III

3 units - semester 2

2 hour lecture, 1 hour tutorial per week

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 III

3 units - semester 1

3 hour lecture, 2 hour tutorial per week

Assumed Knowledge: AGRIBUS 2033RW

Assessment: Case studies, tutorial exercises

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

Independent work 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 III

3 units - semester 2

1 x 2 hour lecture, 1 x 1 hour tutorial 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 3044RW
Individual Studies Rural Enterprise Management III

3 units - semester 2

Assessment: writtenß 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 I

3 units - semester 1

3 hour lecture, 1 hour tutorial, 2 hour practical per week

Incompatible: PLANT SC 1000, PLANT SC 1000RW and 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.

LEVEL II

AGRIC 2500RW/WT
Animal and Plant Biochemistry II

3 units - semester 1

2 hour lecture, 3 hour practical, 1 tutorial / seminar per week

Available for Non-Award Study

Prerequisite: CHEM 1100 or CHEM 1101

Assumed Knowledge: 6 units of level 1 Biology

This course provides an advanced introduction to the fundamental processes of plant, animal and microbial metabolism. Topics will include protein structure and function, mechanisms and control of enzyme action, the biochemistry of carbohydrate, fat and protein metabolism, energy generation, and the fundamentals of nucleic acid biochemistry. Examples of the application and context of key biochemical concepts to areas of science including plant and animal science, viticulture and oenology, veterinary medicine and food technology will be used to highlight the importance of biochemistry to all sectors of these sciences.

AGRIC 2501RW
Animal and Plant Biochemistry (Pre-Vet) II

3 units - semester 1

3 hour lecture, 3 hour practical / tutorial per week

Prerequisite: CHEM 1510 or CHEM 1511

Assumed Knowledge: BIOLOGY 1510, BIOLOGY 1520

This course provides an advanced introduction to the fundamental processes of plant, animal and microbial metabolism. Topics will include protein structure and function, mechanisms and control of enzyme action, the biochemistry of carbohydrate, fat and protein metabolism, energy generation, and the fundamentals of nucleic acid biochemistry. Examples of the application and context of key biochemical concepts to areas of science including plant and animal science, viticulture and oenology, veterinary medicine and food technology will be used to highlight the importance of biochemistry to all sectors of these sciences.

HONOURS

AGRIC 4001ARW/BRW/AWT/BWT
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.

Agronomy

LEVEL I

AGRONOMY 1006ARW/BRW
Agricultural Experience I

3 units - full year

2 x 8 hour days per week

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 2500RW
Agricultural Experience II

3 units - semester 2

8 hour practical per week

Assessment: Reports, seminars, practical experience

Students are rostered on agricultural enterprises where skills and knowledge in the practice of agriculture are developed. Students are involved in the management of the farm 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 2501RW
Introduction to Engineering in Agriculture II

3 units - semester 1

2 hour lecture, 1 hour tutorial, 2 hour practical per week

Restriction: BAgriculture, BSc (Agricultual Science)

Incompatible: CHEM ENG 1001

Assessment: Exam, assignments, practical exercises

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.

AGRONOMY 2502RW
Production Agronomy II

3 units - semester 2

3 hour lecture, 3 hour practical per week

Assumed Knowledge: AGRIC 1000RW, BIOLOGY 1101 and BIOLOGY 1201 or BIOLOGY 1202

Assessment: Exam, practical, tutorial

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.

LEVEL III

AGRONOMY 3000RW
Agroforestry III

3 units - semester 2

2 hour lecture, 4 hour practical per week

Assessment: Written exam, planning assignment, practical

Topics include: Agroforestry for functional mimicry of natural ecosystems; Landuse systems with balanced water use; Trees for shelter, shade and soil conservation; Biodiversity and habitat management; Farm sawlog, firewood and pulpwood production systems; Trees in grazing and fodder systems; Specialty tree products; Integrated production systems; Design and evaluation of agroforestry; Establishing trees on farms; Socio-economic evaluation of agroforestry for the management of dryland salinity; Adoption of agroforestry in Australia; Institutions supporting the implementation of agroforestry.

AGRONOMY 3004RW
Land Management Systems for the Future III

3 units - semester 2

2 hour lecture, 1 hour tutorial, 3 hour practical 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 (Agriculture) III

3 units - semester 1 or 2

Formal contact between student & supervisor during project by mutual agreement

Assumed Knowledge: AGRONOMY 1006ARW/BRW and 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 III

3 units - semester 1

2 hour lecture, 4 hour practical per week

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 III

3 units - semester 2

2 hour lecture, 4 hour practical per week

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 III

3 units - semester 1

2 hour lecture, 1 hour tutorial, 3 hour practical per week

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 III

3 units - semester 2

Part semester, winter vacation - includes 9 day field camp

Assessment: Project reports, theory exam

This course involves teaching sessions that may be attended by both Undergraduate and Postgraduate students

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 III

3 units - semester 1

2 hour lectue, 1 hour tutorial, 3 hour practical per week

Assumed Knowledge: CHEM ENG 1001, PHYSICS 1008 and 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, oil hydraulic systems and irrigation systems.

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

Intending students should consult the Head of Discipline and potential academic supervisors during the final year of their degree.

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.

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 2109
Cells,Tissues & Development II

3 units - semester 1

3 lectures, 1 tutorial, 1, two-hour practical

Restriction: B.Hlth.Sc.; B.Psych. (Hons), BPsychSc

Assumed Knowledge: Human Biology IA & IB (ANAT SC 1102 & 1103)

Incompatible: Cells and Tissues II (ANAT SC 2500)

Assessment: final written & practical exams 60%, mid-semester test, tutorial papers, seminars, slide description 40% - details provided at commencement of course

Cells, Tissues and Development investigates the microscopic structure-function relationships of cells and tissues in the major organs and the development of gametes, fertilization, implantation, and early embryonic and placental development. The course builds upon knowledge of basic tissues gained in Human Biology I. Topics include blood and haemopoiesis, the respiratory, cardiovascular, lymphoid, renal, digestive, endocrine and reproductive systems. The course also considers the role of structural cell biology in biomedical research, including reproduction. Practical and tutorial sessions provide opportunities for visual investigation of material and expansion of concepts presented in the lectures as well as developing student skills in oral and written scientific presentations.

ANAT SC 2200
Functional Human Anatomy II

3 units - semester 2

2 or 3 lectures (1 hour) and 1 practical (2 hours) per week, plus 10-20 hours project

Restriction: B.Hlth.Sc., B. Psych. (Hons) students only or by permission

Available for Non-Award Study

Assumed Knowledge: Human Biology 1 or equivalent

Assessment: Theory exam, practical exams, dissection project and multiple choice question tests

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 2500
Cells and Tissues II

3 units - semester 1

3 x 1 hour lectures, 1 hour tutorial, 2 hour practical per week

Assumed Knowledge: BIOLOGY 1101, BIOLOGY 1201 or 1202

Assessment: Exam, test, tutorial and practical assignments

Cells and Tissues II 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. Tutorials form a large component of the continuous assessment and give students ongoing feedback information on their progress in the course. Students also participate in an oral presentation and written, referenced summary on a topic in structural cell biology.

ANAT SC 2501
Comparative Anatomy of Body Systems II

3 units - semester 2

3 x 1 hour lectures, 3 hour practical per week

Restriction: BScience

Assumed Knowledge: BIOLOGY 1202 or equiv

Incompatible: ANAT SC 2008

Assessment: Written exam, practical tests

This course studies function associated evolutionary modifications of the vertebrate body systems taking human as the standard mammal. Lectures and practicals are integrated. In practicals, bones, human prosections and vertebrate dissections are used as learning resources.

LEVEL III

ANAT SC 3101
Anthropological and Forensic Anatomy III

3 units - semester 2

Restriction: BHIthSc; BSc or by permission of the 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 Biological Anthropology

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 III

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%

In this course the reproductive biology of various marsupial and eutherian mammalian species is covered with emphasis on the cell biology of various reproductive biological 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 embryo. An account of macromorphological and cellular changes associated with implantation, placentation and lactation in various groups of mammals are then covered. This is followed by an overview of the causation of, and ways of overcoming, sub- and infertility in the human species followed by an outline of the biological principles underlying contraceptive technology. Finally the application of assisted reproductive technology to the conservation of rare and endangered species of mammals is considered. During the course students have to either to carry out a research project using a variety of microscopical procedures or write an in depth essay on a specialised topic of reproductive biology.

ANAT SC 3103
Integrative and Comparative Neuroanatomy III

3 units - semester 1

2 lectures, 4 hours practical work a week

Available for Non-Award Study

Assumed Knowledge: ANAT SC 2102 or ANAT SC 2104 or ANAT 2103 or ANAT SC 2105 or equiv

Incompatible: Head and Neck and Neuroanatomy, Neuroanatomy and 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 III

3 units - semester 2

2 lectures, 4 hours tutorial/practical work per 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 - 2 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 four and will be expected to do appropriate reading and preparation prior to the beginning of the dissection.

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 the quality of the dissection 20%, a practical mid-semester test 10% & practical 20%, written examat 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.

ANAT SC 3500
Ethics, Science and Society

3 units - semester 1 (Not offered until 2010)

Restriction: No previous enrolment in Ethics Sciences & Society 2106 or 3106

Prerequisite: Level I courses to the value of 12 units

Assessment: case study assessment (written), paper/journal article critique, tutorial participation and presentation (tutor allocated), essay (written)

Enrolments in this course can be at either Level II or III - this is an advanced course for BA programs

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. Topic areas may include ethical analysis of the following: research practice; reproduction and reproductive technologies; genetics; animal and human experimentation; death and dying. The focus on these topical issues in modern science will be underpinned by an introduction to the philosophy of science and methods in bioethics.

HONOURS

ANAT SC 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 non 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 I

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 I

3 units - semester 1

3 hour lecture, 1 hour tutorial, 2 hour practical per week

Restriction: BSc (Animal Science)

Assessment: Exam, tutorials, practical reports, group project

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 I

3 units - semester 2

3 hour lecture, 3 hour practical per week

Restriction: BSc (Animal Science)

Assessment: Exam, written assignment

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.

ANIML SC 1017RW
Perspectives in Animal Science I (Pre-Vet)

3 units - semester 1

3 hour lecture, 1 hour tutorial, 2 hour practical per week

Restriction: BSc (Animal Science: Pre-Vet)

Assessment: Exam, tutorials, practical reports, group project

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. In addition there will be instruction on the physical examination of these animals from the veterinary perspective.

ANIML SC 1018RW
Principles in Animal Behav Welfare Ethics I (Pre-Vet)

3 units - semester 2

3 hour lecture, 3 hour practical per week

Restriction: BSc (Animal Science: Pre-Vet)

Assessment: Exam, written assignment

The course will provide the students with an introduction to the principles of animal ethics, behaviour and welfare and how these relate to the veterinary profession. 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 2500RW
Companion Animal and Equine Studies II

3 units - semester 1

1 x 2 hour Lecture, 1 x 1 hour Tutorial, 1 x 3 hour Practical per week

Restriction: BSc (Animal Science)

Assessment: Exam, other written and oral assignments

The course will provide students with an overview of the origins and husbandry of companion animals, including horses, dogs, cats, birds, reptiles and pocket pets. The roles of companion animals in society will also be covered. Students will learn the common breeds and terminology relating to companion animal species. There wlll be opportunlties for students to learn the correct handling of some of these species.

ANIML SC 2501WT
Genes and Inheritance II

3 units - semester 2

2 hour lectures, 2 hour tutorial, 2 hour practical per week

Prerequisite: BIOLOGY 1101, BIOLOGY 1201 or BIOLOGY 1202

Assessment: Tests, practical reports, presentations, participation, exercises, 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 2502RW
Wildlife Management II

3 units - semester 1

Presented online, 5 Day field trip

Available for Non-Award Study

Assumed Knowledge: BIOLOGY 1101, BIOLOGY 1201 or 1202

Assessment: Discussion contributions, assignments, field trip, exam

The course deals with the survey & management of captive and wild populations of vertebrate animals. Topics covered include: the reasons for management; conflicts between humans & 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 & 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. A vacation field camp demonstrates some of the wildlife survey & handling techniques that provide some of the data on which wildlife management programs are based.

ANIML SC 2503RW
Livestock Production Science II

3 units - semester 2

1 x 3 hour Lecture, 1 x 3 hour Practical per week

Assumed Knowledge: BIOLOGY 1101, BIOLOGY 1201 or BIOLOGY 1202 and AGRIC 1000RW or ANIML SC 1015RW

Assessment: Practical reports, tests, essays, 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 2504RW
Animal Breeding and Genetics II (Pre-Vet)

3 units - semester 1

1 x 3 hour lecture, 1 x 3 hour practical per week

Restriction: BSc (Animal Science: Pre-Vet)

Prerequisite: BIOLOGY 1510 and BIOLOGY 1520 and PHYSICS 1501 or PHYSICS 1508 or equiv

Incompatible: ANIML SC 3045RW

Assessment: Written exam, practical reports, breeding program oral, breeding program written, goal setting exercise.

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 2505RW
Animal Nutrition & Metabolism II (Pre-Vet)

3 units - semester 2

1 x 3 hour lecture, 1 x 3 hour practical per week

Restriction: BSc (Animal Science: Pre-Vet)

Prerequisite: BIOLOGY 1510 and BIOLOGY 1520 and CHEM 1510 or CHEM 1511 and CHEM 1520 or CHEM 1521 or equiv

Incompatible: ANIML SC 3015RW

Assessment: Written exam, practical exam, oral presentation, group work, formative tests

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 2506RW
Comparative Animal Anatomy & Physiology IIA

3 units - semester 1

3 hour lecture, 4 hour practical per week

Prerequisite: BIOLOGY 1101 and BIOLOGY 1202

Assumed Knowledge: 6 units of level 1 Chemistry

Incompatible: ENV BIOL 3003, PHYSIOL 2003, PHYSIOL 2004, VET SC 2510RW or VET SC 2520RW

Assessment: Practical reports, case study, exam

The course deals with the physiology and anatomy in a wide variety of animals; specifically, the tissues, physiology and anatomy of the major systems including skeletal, muscular, circulatory, nervous, and endocrine. The focus is comparative and demonstrates how different animal species have developed anatomical and physiological variation to cope with different environments.

ANIML SC 2507RW
Comparative Animal Anatomy & Physiology IIB

3 units - semester 2

3 hour lecture, 4 hour practical per week

Prerequisite: BIOLOGY 1101 and BIOLOGY 1202

Assumed Knowledge: 6 units of Level I Chemistry

Incompatible: ENV BIOL 3003, PHYSIOL 2003, PHYSIOL 2004, VET SC 2510RW or VET SC 2520RW

Assessment: Practical reports, case study, exam

The course deals with the physiology and anatomy in a wide variety of animals; specifically, the tissues, physiology and anatomy of the major systems including skeletal, muscular, circulatory, nervous, and endocrine. The focus is comparative and demonstrates how different animal species have developed anatomical and physiological variation to cope with different environments.

LEVEL III

ANIML SC 3015RW
Animal Nutrition and Metabolism III

3 units - semester 2

3 hour lecture, 3 hour practical per week

Assumed Knowledge: ANIML SC 2030RW and ANIML SC 3017RW

Incompatible: ANIML SC 2505RW

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 III

3 units - semester 2

3 hour lecture, 3 hour practical per week

Assumed Knowledge: ANIML SC 2030RW and ANIML SC 3017RW

Incompatible: ANIML SC 3010RW and 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 III

3 units - semester 1

3 hour lecture, 3 hour practical per week

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 III

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 lecture, 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 III

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 III

3 units - summer semester

35 hours x 2 weeks

Assumed Knowledge: BIOLOGY1101 & 1202 or 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 III

3 units - semester 1

3 hour lecture, 3 hour practical per week

Assumed Knowledge: ANIML SC 2029WT or BIOLOGY 1103RW and BIOLOGY 1203RW and ANIML SC 2030RW

Incompatible: ANIML SC 2504RW, PLANT SC 3007WT and 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 III

3 units - semester 1

2 hour lecture, 1 hour tutorial, 3 hour practical per week

Assumed Knowledge: BIOLOGY 1101 & 1202 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 III

3 units - semester 1

2 hour lecture, 1 hour tutorial, 3 hour practical per week

Assumed Knowledge: BIOLOGY 1101 and BIOCHEM 2106WT

Assessment: To be advised

The 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 III

3 units - semester 2

2 hour lecture, 1 hour tutorial, 3 hour practical per week

Restriction: BSc (Animal Science)

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 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 provides an introduction to fundamental areas of inquiry in social anthropology. It examines essential aspects of human social life from a cross-cultural perspective, which is one of the defining characteristics of anthropology. It provides an introduction to the historical emergence of anthropology as a distinctive social scientific discipline and takes as its central theme the interaction between human cultural action and social relations. The course is organized around the study of a number of issues in which anthropological debate and analysis has been most intensively focused, including: primary social relations, political and economic relations,

religious and ideological relations, and debates about cultural creativity within the context of social structure.

The 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.

ANTH 1105
Anthropology of Everyday Life

3 units - semester 1

3 contact hours per week

Available for Non-Award Study

Assessment: Tutorial participation 10%, tutorial presentation 25%, 1,000 word minor essay 25%, 2,000 word major essay 40%

This course is an introduction to the discipline of anthropology as the study of everyday social life for understanding everyday social life, whether in our own or other cultural worlds. The course introduces the major themes of anthropology: the concept of culture, how we get along with other people, the way our everyday lives are made meaningful and the tacit dimensions of social life. These themes are presented through case studies of everyday actions and social relations by anthropologists: the different ways people in other societies see colours, cockfights in Bali, gifts and making friends, how and why social relations split up, understanding asylums, smoking cigarettes in Australia, driving cars in Asia and Los Angeles, rituals in Africa, generation X in America, and capitalism and devil worship in South America.

ADVANCED LEVEL

ANTH 2036
Anthropology of Conflict and Crisis

3 units - semester 1

3 contact hours per week

Available for Non-Award Study

Prerequisite: 12 units Level I Humanities/Social Sciences

Incompatible: ANTH 2024/3024

Assessment: Attenance, seminar presentations, minor essay, major essay

The course addresses the issues of conflict and complex political and ecological emergencies from a comparative anthropological perspective. Case studies are drawn from countries such as Afghanistan, Sierra Leone, Zimbabwe, Guatemala and Northern Ireland. This course introduces students to some of the methodological issues surrounding doing 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 2037
Anthropology of Emotion, Mind and Person

3 units - semester 2

3 contact hours per week

Available for Non-Award Study

Prerequisite: 12 units Level I Humanities/Social Sciences

Incompatible: ANTH 2023/3023

Assessment: Workshop participation and presentation, essays

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 2038
Anthropology of Health and Medicine

3 units - semester 1

3 contact hours per week

Available for Non-Award Study

Prerequisite: 12 units Level I Humanities/Social Sciences

Incompatible: ANTH 2003/3003

Assessment: Workshop participation and presentation, essays

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 2040
Ethnography: Engaged Social Research

3 units - semester 2

3 contact hours per week

Available for Non-Award Study

Prerequisite: 12 units Level I Humanities/Social Sciences

Incompatible: ANTH 2030

Assessment: Workshop participation, research portfolio, 2,500 word research essay or research portfolio

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.

The course develops 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?

For students training as a social scientist, anthropologist, or qualitative researcher this course provides an important foundation for professional development.

ANTH 2041
Popular Culture: Passion, Style, Vibe

3 units - semester 2

3 contact hours per week

Available for Non-Award Study

Prerequisite: 12 units Level I Humanities/Social Sciences

Incompatible: ANTH 2022/3022

Assessment: Attendance, presentations, 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 2042
Consuming Passions: Anthropology of Food and Drink

3 units - semester 1

3 contact hours per week

Prerequisite: 12 units Level I Humanities/Social Sciences

Assumed Knowledge: Level I Anthropology

Incompatible: ANTH 2026/3026

Assessment: Essay, field reports and workshop contributions

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 consume so much information 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? Where are we headed with genetically modified food?

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 address a number 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 made significant contributions to the study of food and drink, as well as facilitating group research into particular topics of current concern.

CAPSTONE

ANTH 3100
Anthropology Today: Culture, Agency, Experience

3 units - semester 2 (Not offered until 2010)

3 contact hours per week

Available for Non-Award Study

Prerequisite: 15 units in Anthropology with no more than 6 units at Level I

Incompatible: ANTH 3029

Assessment: Participation 10%, seminar presentations 2 x 20%) major essay 50%

What does it mean to think 'anthropologically'? What is the nature of anthropological knowledge? In this course you will explore the articulation of fieldwork (broadly construed), social analysis and theory in anthropology. You will investigate a range of themes and standpoints that have become pivotal to contemporary anthropological thinking and practice. This includes considering both how individuals, as active subjects make sense, reflect, and act upon their life worlds, while living within the constraints of social, cultural and political structures. Theories of human agency, structure, power, culture, history, and experience are considered as broad frames for understanding human conditions and the way humans inscribe meanings on their lived worlds. This course is highly recommended for any students planning to major in anthropology or considering enrolling in Honours Anthropology.

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), 15,000-20,000 word thesis

Students wishing to take Honours Anthropology should consult the Honours Coordinator prior to commencing

Advanced Level studies 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.

Students are encouraged to complete ANTH 3100 before proceeding to Honours.

Arts

ADVANCED LEVEL

ARTS 2001
Arts Internship

6 units - semester 2

2 hour seminar per week and placement

Quota will apply

Prerequisite: 12 units Advanced Level Humanities/Social Sciences

Incompatible: ANTH 2048, GEST 2200, MDIA 3302/3311, POLI 2112/3083

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. The course 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. 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.

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.

ADVANCED LEVEL

ASIA 2018
Australia and the Asia-Pacific

3 units - semester 2

3 contact hours per week

Available for Non-Award Study

Prerequisite: 12 units Level I Humanities and Social Sciences

Incompatible: ASIA 2003/3003

Assessment: Participation 10%, reflection papers 15%, presentation 15%, 2 short tests 20%, research paper 40%

The course will examine Australia's relations with Asia in global and regional perspective. Some of the enduring concerns of Australian and Asian policy makers 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 and current 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 2020
Cultures and Identities in Contemporary Japan

3 units - semester 2

3 contact hours per week

Available for Non-Award Study

Prerequisite: 12 units Level I Humanities and Social Sciences

Incompatible: ASIA 2012/3012

Assessment: Tutorial paper 20%, reflection papers 20%, 2 tutorial presentations 15%, participation 5%, semester essay 40%

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 and identities 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, minorities, nationalism, youth culture, popular culture, food culture, and mass media. The themes covered may vary year to year.

ASIA 2021
Culture & Identities in Contemporary China

3 units - semester 1

1 Lecture, 1 tutorial and 1 workshop per week

Check with School for Non-Award Study

Prerequisite: 12 units Level I Humanities/Social Sciences or equivalent as approved by the coordinator

Incompatible: Religions of China ASIA 2016/3016

Assessment: 3 reflection papers 30%, presentation 10%, minor paper 20%, major paper 40%

Cultures & Identities in Contemporary China give students an insight into the complexity of China's past and present and highlights analytical principles that can be applied more or less universally. Key socio-political and cultural ideas, together with institutions underpinning the bases of the myriad of Chinese identities, particularly those with religious beliefs, are examined with an eye to emphasising China's diversity and revealing underlying belief systems. We examine some of the key ideas shaping Chinese identities, including ('Han') Chineseness, ethnic and other minorities and how ideas of 'Confucianism' distorted Western analysis. Chinese cultural variety is highlighted by showing how important Buddhism, Daoism, and folk religion concepts including beliefs in fate, ghosts, fengshui and divination shape much Chinese thinking.

More recent influences such as Christianity and Islam, Communism under Mao Zedong, nationalism and modern syncretic movements such as Falun Gong may be scrutinised to show how divisions between politics and religions can become blurred.

Many of these ideas remain relevant both in China and in international relations when governments or others appeal to or against them. The role of identity politics in the disputes between the People's Republic of China and Taiwan are the most salient of these.

ASIA 2024
Asian Giants: Japan, China & India

3 units - semester 1

3 contact hours per week

Available for Non-Award Study

Prerequisite: 12 units Level I Humanities and Social Sciences or equivalent

Assessment: Participation 10%, reflection papers 15%,presentation 15%, 2 short tests 20%, research paper 40%

After four centuries, Asia is re-emerging as the world's economic powerhouse and this will enable Asian states to acquire other kinds of power - both 'hard' and 'soft'. The result will be greatly enhanced capacity for the Asian Giants to influence regional and global issues. Today we can see China's rapid rise, India's emerging role as a continental power and Japan's post-war standing as Asia's economic titan but never in history have all three been so strong at the same time. Hence, the unfolding of these nations' power and global reach particularly how they relate to each other bilaterally and as a triangle, needs to be studied carefully. Without any formed understanding, it is not possible to assess the profound significance this developing situation implies, not just for the region but

for the entire world. This simultaneous rise creates a new centre of power - one perhaps qualitatively different from that of Europe or North America.

This course will use international relations perspectives to examine the rise of these nations and the implications of resultant changes. It will explore their inter-state and triangular relations in areas such as defence and security, energy, environment, economic aid, regional and international organisations.

ASIA 2025
Re-Orienting Asia: Popular Voices & Sustainability

3 units - semester 1

3 contact hours per week

Prerequisite: 12 units Level I Humanities/Social Sciences

Incompatible: ASIA 2014/3014

Assessment: Workshop participation 10%, workshop presentation 10%, reflection papers 20%, workshop paper 20%, major essay 40%

This course examines the voices of people living in the margins of the rapidly developing economies of Asia, such as victims of industrial pollution, people displaced due to development, educational 'refugees', the homeless, the elderly, and the sick, the poor, etc. It draws initially upon examples in Japan which, implicitly or explicitly, constitutes the model of development for the region. As the post-industrial superpower shows signs of unsustainability in key aspects of its society, however, many people are led to seek alternative paradigms for a sustainable future. Witnesses from within the various movements that now proliferate are critically addressing the negative legacies of the existing model of development, and attempting to build a better future. The course analyses these movements through the lens of participant experience. While the Japanese perspective constitutes the backbone, Japanese cases will then be matched, where possible, with examples in other parts of Asia.

The course explores the possibility of an Asia-specific paradigm of sustainable society. Within that paradigm, a holistic sense of humans being connected with each other; with nature and other species; with ancestors and descendants; with their cultural and spiritual heritages, constitutes a key concept.

CAPSTONE

ASIA 3100
Key Issues in Asian Studies

3 units - semester 1 (Not offered until 2010)

3 contact hours per week

Available for Non-Award Study

Prerequisite: 15 units in Asian Studies with no more than 6 units at Level I

Incompatible: ASIA 2002

Assessment: Tutorial paper 20%, tutorial presentation 10%, test 15%, reflection papers 15%,major group paper 30%, participation 10%

This course introduces Asia and Asian Studies as an area-focused discipline and examines discourse on Asia in a range of traditional disciplines such as politics, economics, history, sociology and philosophy. Some key constructs/theories for the study of Asia will be introduced and a number of themes will be examined in order to integrate theoretical knowledge with empirical examples. The course covers issues such as 'Asian values', democratisation, economic development and culture, as well as Australia's relations with Asia.

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 7,200-9,000 words 25% each, 15,000-20,000 word thesis 50%

Students wishing to take Honours Asian Studies are encouraged to consult the Honours Coordinator prior to commencing Advanced level studies 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 2500
Biochemistry II: Molecular and Cell Biology

3 units - semester 1

5 x 1 hour lectures, 4 hour practical, 1 hour tutorial per fortnight

Available for Non-Award Study

Prerequisite: CHEM 1100 and CHEM 1200, BIOLOGY 1101 and BIOLOGY 1201 or BIOLOGY 1202

Incompatible: BIOCHEM 2502 and BIOCHEM 2504

Assessment: Exam, tutorial assessments, continuous assessments in the form of tests, and practical component assessments

This Biochemistry course aims to provide students with an understanding and an appreciation of Molecular Biology and Metabolic Biochemistry concepts. The topics covered include: DNA structure, synthesis 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 Practical series: Prac A, Prac B and Prac C. Students should be referred to Current Students Online information at www.sciences.adelaide.edu.au for information about enrolling in these practicals.

BIOCHEM 2501
Biochemistry II: Metabolism

3 units - semester 2

5 x 1 hour lectures, 4 hour practical, 1 hour tutorial per fortnight

Available for Non-Award Study

Prerequisite: CHEM 1100 and CHEM 1200, BIOLOGY 1101 and BIOLOGY 1201 or BIOLOGY 1202

Incompatible: BIOCHEM 2503 and BIOCHEM 2505

Assessment: Exam, tutorial assessments, continuous assessments in the form of tests and practical reports

This Biochemistry course aims to provide students with an understanding and an appreciation of Molecular Biology and Metabolic Biochemistry concepts. The topics covered include: specialised proteins, enzyme specificity and regulation, tissue specific metabolism and its control, some disease states that illustrate this control, how the body adjusts to variations in the demand for energy, mechanisms of hormone action and extensions of the signal tranduction pathways covered in semester 1.
The practical component for this course draws from the MBS Practical series: Prac A, Prac B and Prac C. Students should be referred to Current Students Online information at www.sciences.adelaide. edu.au for information about enrolling in these practicals.

BIOCHEM 2502
Biochem II (Biotech): Molecular and Cell Biology

3 units - semester 1

5 x 1 hour lectures, 4 hour practical, 1 hour tutorial per fortnight

Restriction: B.Sc (Biotechnology)

Prerequisite: CHEM 1100 and CHEM 1200, BIOLOGY 1101 and BIOLOGY 1201 or BIOLOGY 1202

Incompatible: BIOCHEM 2500 and BIOCHEM 2504

Assessment: Exam, tutorial assessments, continuous assessments in the form of tests and practical reports

This Biochemistry course aims to provide students with an understanding and an appreciation of Molecular Biology and Metabolic Biochemistry concepts. The topics covered include: DNA structure, synthesis 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 Practical series: Prac A, Prac B and Prac C. Students should be referred to Current Students Online information at www.sciences.adelaide.edu.au for information about enrolling in these practicals.

BIOCHEM 2503
Biochemistry II (Biotechnology): Metabolism

3 units - semester 2

5 x 1 hour lectures, 4 hour practical, 1 hour tutorial per fortnight

Restriction: B.Sc (Biotechnology)

Prerequisite: CHEM 1100 and CHEM 1200, BIOLOGY 1101 and BIOLOGY 1201 or BIOLOGY 1202

Incompatible: BIOCHEM 2501 and BIOCHEM 2505

Assessment: Exam, tutorial assessments, continuous assessments in the form of tests and practical reports

This Biochemistry course aims to provide students with an understanding and an appreciation of Molecular Biology and Metabolic Biochemistry concepts. The topics covered include: specialised proteins, enzyme specificity and regulation, tissue specific metabolism and its control, some disease states that illustrate this control, how the body adjusts to variations in the demand for energy, mechanisms of hormone action and extensions of the signal tranduction pathways covered in semester 1.

The practical component for this course draws from the MBS Practical series: Prac A, Prac B and Prac C. Students should be referred to Current Students Online information at www.sciences.adelaide. edu.au for information about enrolling in these practicals.

BIOCHEM 2504
Biochem II (Mol Biol): Molecular and Cell Biology

3 units - semester 1

5 x 1 hour lectures, 4 hour practical, 1 hour tutorial per fortnight

Restriction: B.Sc (Molecular Biology)

Prerequisite: CHEM 1100 and CHEM 1200, BIOLOGY 1101 and BIOLOGY 1201 or BIOLOGY 1202

Corequisite: BIOCHEM 2510

Incompatible: BIOCHEM 2500 and BIOCHEM 2502

Assessment: Exam, tutorial assessments, continuous assessments in the form of tests and practical reports

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 2505
Biochemistry II (Mol Biol): Metabolism

3 units - semester 2

5 x 1 hour lectures, 4 hour practical, 1 hour tutorial per fortnight

Restriction: B.Sc (Molecular Biology)

Prerequisite: CHEM 1100 and CHEM 1200, BIOLOGY 1101 and BIOLOGY 1201 or BIOLOGY 1202

Corequisite: BIOCHEM 2520

Incompatible: BIOCHEM 2501 and BIOCHEM 2503

Assessment: Exam, tutorial assessments, continuous assessments in the form of tests and practical reports

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 2506
Biochem II (Med Surg): Molecular & Cell Biology

3 units - semester 1

5 x 1 hour lectures per fortnight, 1 hour tutorial per week

Restriction: Bachelor of Medicine and Bachelor of Surgery

Assessment: Exam, tutorial assessments, continuous assessments in the form of tests, and practical component assessments

This Biochemistry course aims to provide students with an understanding and an appreciation of Molecular Biology and Metabolic Biochemistry concepts. The topics covered include: DNA structure, synthesis 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 Practical series: Prac A, Prac B and Prac C. Students should be referred to Current Students Online information at www.sciences.adelaide.edu.au for information about enrolling in these practicals.

BIOCHEM 2507
Biochemistry II (Med Surg): Metabolism

3 units - semester 2

5 x 1 hour lectures per fortnight, 1 hour tutorial per week

Restriction: Bachelor of Medicine and Bachelor of Surgery

Assessment: Exam, tutorial assessments, continuous assessments in the form of tests and practical reports

This Biochemistry course aims to provide students with an understanding and an appreciation of Molecular Biology and Metabolic Biochemistry concepts. The topics covered include: specialised proteins, enzyme specificity and regulation, tissue specific metabolism and its control, some disease states that illustrate this control, how the body adjusts to variations in the demand for energy, mechanisms of hormone action and extensions of the signal tranduction pathways covered in semester 1. The practical component for this course draws from the MBS Practical series: Prac A, Prac B and Prac C. Students should be referred to Current Students Online information at www.sciences.adelaide.edu.au for information about enrolling in these practicals.

BIOCHEM 2510
Advanced Molecular Biology IIA

3 units - semester 1

2 hour tutorial, 4 hour practical per fortnight

Restriction: B.Sc (Molecular Biology)

Prerequisite: BIOLOGY 1101 & 1201, 6 units of Level I Chemistry

Corequisite: CHEM 2510 or CHEM 2101

Assessment: Tutorial, practical assessments

This course combines special set of tutorials centred around research activities in molecular biology with practical exercises and/or laboratory placements. The content is designed to provide students with a perspective of how cutting edge molecular biology principles and techniques are applied to major research questions. The tutorial 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.

BIOCHEM 2520
Advanced Molecular Biology IIB

3 units - semester 2

2 hour tutorial, 4 hour practical per fortnight

Restriction: B.Sc (Molecular Biology)

Prerequisite: BIOLOGY 1101, & 1201, 6 units of Level I Chemistry

Corequisite: CHEM 2520 or CHEM 2201

Assessment: Tutorial, practical assessments

This course combines special set of tutorials centred around research activities in molecular biology with practical exercises and/or laboratory placements. The content is designed to provide students with a perspective of how cutting edge molecular biology principles and techniques are applied to major research questions. The tutorial 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.

LEVEL III

BIOCHEM 3000
Molecular and Structural Biology III

6 units - semester 1

3 x 1 hour lectures, 1 hour tutorial per week, 3 x 5 hour practicals per fortnight

Available for Non-Award Study

Prerequisite: BIOCHEM 2500 and BIOCHEM 2501 or equiv

Incompatible: BIOCHEM 3110

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 x 1 hour lectures, 1 hour tutorial per week, 3 x 5 hour practicals per fortnight

Available for Non-Award Study

Prerequisite: BIOCHEM 2500 and BIOCHEM 2501 or equiv

Assumed Knowledge: BIOCHEM 3000

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 x 1 hour lectures, 1 hour tutorial per week, 3 x 4 hour practicals per fortnight

Restriction: BSc (Molecular Biology)

Prerequisite: BIOCHEM 2510, 2520, 2102 and 2202

Incompatible: BIOCHEM 3000 and GENETICS 3110

Assessment: Written exam on lecture material, written & 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 x 1 hour lectures, 1 hour tutorial per week, 3 x 4 hour practicals per fortnight

Restriction: BSc (Molecular Biology)

Prerequisite: BIOCHEM 2510, 2520, 2102 and 2202

Assumed Knowledge: BIOCHEM 3125

Incompatible: BIOCHEM 3001 and GENETICS 3210

Assessment: Written exam on lecture material, written and oral reports on practicals and tutorials

This course combines lectures from Cell and Development 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

Intending Honours candidates should consult the Head of Biochemistry during the final year of the BSc

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.

Biology

LEVEL I

BIOLOGY 1101
Biology I: Molecules, Genes and Cells

3 units - semester 1

3 x 1 hour lectures, 1 hour tutorial per week, 3 hour practical per fortnight

Available for Non-Award Study

Incompatible: BIOLOGY 1101MED, BIOLOGY 1102MED, ENV BIOI 1000AIB and GENETICS 1000AIB

Assessment: Exams, practical work/workshops, tutorial assessment

The study of biology covers an incredibly wide range of themes; from simple molecules, cells, organelles and

tissues to whole organisms and their interaction with the environment and their ability to evolve. The aim of this course is to introduce many of these concepts, thereby providing the foundation for further studies in semester 2 courses and more specialist level II/III courses. Topics to be covered include the chemicals of life, macromolecules, the role of nucleic acids in genetic information transfer, protein synthesis, lipid membranes and the structure of cells, storage and utilisation of energy, meiosis and mitosis.

BIOLOGY 1101MED
Biology I: Molecules, Genes and Cells

3 units - semester 1

3 x 1 hour lectures, 1 hour tutorial per week, 2 x 1 hour & 1 x 2 hour workshop per semester

Restriction: Bachelor of Medicine and Surgery

The study of biology covers an incredibly wide range of themes; from simple molecules, cells, organelles and tissues to whole organisms and their interaction with the environment and their ability to evolve. The aim of this course is to introduce many of these concepts, thereby providing the foundation for further studies in semester 2 courses and more specialist level II/III courses. Topics to be covered include the chemicals of life, macromolecules, the role of nucleic acids in genetic information transfer, protein synthesis, lipid membranes and the structure of cells, storage and utilisation of energy, meiosis and mitosis.

BIOLOGY 1103RW
Cell Biology and Genetics I

3 units - semester 1

1 x 2 hour Lectures, 1 hour tutorial, 3 hour practical per week

Incompatible: BIOLOGY 1101 and BIOLOGY 1103RW

Assessment: Practical reports, tutorial exercises, exam

The course is an introduction to cell biology and genetics and also provides an introduction to further studies in agricultural production and environmental management. It does not assume previous biological knowledge. Topics include: structure of bacteria, plant and animal cells and an introduction to and role of the main cellular components; role of membranes in the regulation of the cell environment; respiration and energy production; fermentation; photosynthetic processes and synthesis of sugars; cell interaction and cell division, chromosome structure and inheritance; location and structure of genes; genotype and phenotype; DNA, its replication, transcription and translation; protein synthesis; mutation; introduction to plant and animal breeding and genetic engineering, role in biodiversity and conservation.

BIOLOGY 1201
Biology I: Human Perspectives

3 units - semester 2

3 x 1 hour lectures, 2 hour tutorial per week, 2 x 2 hour practical per semester

Available for Non-Award Study

Assumed Knowledge: BIOLOGY 1101

Incompatible: ENV BIOL 1000A/B, GENETICS 1000A/B and BIOLOGY 1202

Assessment: Exams, practical work/tutorial assessment

This course builds on fundamentals of biology that have been developed in Molecules, Genes and Cells. The course takes molecular, cellular, whole body, population and evolutionary approaches to understanding biology as it pertains to human function and the interactions of the body with the environment. In many cases, our understanding of human function is best derived for studies of mammalian and non-mammalian organisms, and where appropriate, such models will be discussed. The themes that will be covered include: the organisation of the body, evolution, inheritance, regulation of gene expression, communication and control systems in the body; developmental biology and defence systems. Sessions, which provide opportunities to integrate the information and demonstrate how it provides an understanding of normal human function and of disease, will be a regular feature of the course.

BIOLOGY 1201MED
Biology I: Human Perspectives

3 units - semester 2

3 x 1 hour lectures, 2 hour tutorial per week, 2 x 2 hour practical per semester

Assumed Knowledge: BIOLOGY 1101

Restriction: Medical students only

This course builds on fundamentals of biology that have been developed in Molecules, Genes and Cells. The course takes molecular, cellular, whole body, population and evolutionary approaches to understanding biology as it pertains to human function and the interactions of the body with the environment. In many cases, our understanding of human function is best derived for studies of mammalian and non-mammalian organisms, and where appropriate, such models will be discussed. The themes that will be covered include: the organisation of the body, evolution, inheritance, regulation of gene expression, communication and control systems in the body; developmental biology and defence systems. Sessions, which provide opportunities to integrate the information and demonstrate how it provides an understanding of normal human function and of disease, will be a regular feature of the course.

BIOLOGY 1202
Biology I: Organisms

3 units - semester 2

3 x 1 hour lectures, 1 hour tutorial, 3 hour practical per week

Assumed Knowledge: BIOLOGY 1101 or BIOLOGY 1102

Incompatible: ENV BIOL 1000A/B, GENETICS 1000A/B, BIOLOGY 1201 and ENV BIOL 1003

Assessment: Exam, assignment, practical reports

This course focuses on the biology and diversity of multicellular organisms, with evolution as the central theme. It addresses key questions in biology: What are plants and animals? How do they evolve? How do they function? How do they interact with other organisms and the environment? These questions are answered by analysing the scientific evidence that supports current theory.

BIOLOGY 1203RW
Biology of Plants and Animals I

3 units - semester 2

1 x 2 hour lectures, 1 hour tutorial, 3 hour practical per week

Assumed Knowledge: BIOLOGY 1103RW or equiv

Incompatible: BIOLOGY 1202 and BIOLOGY 1203RW

Assessment: Exam, tutorial exercises, practical reports

This course is an introduction to the diversity of form and function in higher plants and animals. Examples of both native and agricultural species are used to illustrate the structure and function of flowering plants and vertebrate animals, their reproduction, growth, nutrition, control systems, and interactions with the environment.

BIOLOGY 1510
Biology I:Molecules, Genes & Cells (Pre-Vet)

3 units - semester 1

3 x 1 hour lectures, 1 hour tutorial per week, 3 hour practical per fortnight

Restriction: BSc (Animal Science: Pre-Vet)

Assessment: Exams, practical work/workshops, tutorial assessment

The study of biology covers an incredibly wide range of themes; from simple molecules, cells, organelles and tissues to whole organisms and their interaction with the environment and their ability to evolve. The aim of this course is to introduce many of these concepts, thereby providing the foundation for further studies in semester 2 courses and more specialist level II/III courses. Topics to be covered include the chemicals of life, macromolecules, the role of nucleic acids in genetic information transfer, protein synthesis, lipid membranes and the structure of cells, storage and utilisation of energy, meiosis and mitosis.

BIOLOGY 1520
Biology I: Organisms (Pre-Vet)

3 units - semester 2

3 x 1 hour lectures, 1 hour tutorial, 3 hour practical per week

Restriction: BSc (Animal Science: Pre-Vet)

Assessment: Exam, assignment, practical reports

This course focuses on the biology and diversity of multicellular organisms, with evolution as the central theme. It addresses key questions in biology: What are plants and animals? How do they evolve? How do they function? How do they interact with other organisms and the environment? These questions are answered by analysing the scientific evidence that supports current theory.

Biometry

LEVEL II

BIOMET 2500RW/WT
Research Methodology II

3 units - semester 2

2 x 1 hour lecture, 2 hour practical, 2 hour tutorial per week

Assumed Knowledge: STATS 1000 or STATS 1004

Assessment: Reports, assignments, exam

This course is concerned with understanding and application of the scientific method in biological research. The course has a foundation in the philosophy of science. Particular emphasis is given to the application of statistical hypothesis testing, which is explored in a series of case studies. In addition, research skills in project management, teamwork and presentations skills are developed in the context of scientific research.

LEVEL III

BIOMET 3000WT
Agricultural Experimentation III

3 units - semester 1

2 x 1 hour lectures, 1 3 hour practical per week

Prerequisite: STATS 1004 or STATS 1000

Assessment: Individual assignment, written assignments, final exam

The philosophy of science via experimental design and data analysis. Topics covered include: Simple Linear Regression, Polynomial and Multiple Regression. Analysis of Variance including, One-way (without or with Blocking), Latin Squares, Factorial, and Split-Plot Designs. In addition, Analysis of Covariance, Linear Contrast (including Orthogonal Polynomials), advanced Regression and Generalised Linear Models may be covered. The statistical package GenStat will be used for the designing of experiments and the analysis of data sets.

Biotechnology

LEVEL I

BIOTECH 1000
Introduction to Biotechnology I

3 units - semester 1

2 x 1 hour lectures, 4 hour practical per week

Restriction: BSc (Biotechnology)

Assessment: Exam, assignments/group projects

Global significance of biotechnology, categories of biotechnology processes and products, “traditional” vs “modern” biotechnology processes; key developments

in history of biotechnology, enabling technologies - fermentation, downstream processing; recombinant methods, antibody monoclonals, analysis and automation, PCR, genomics, proteomics, metabolomics; biotechnology enterprises in South Australia and Australia, global biotechnology enterprises/industries; biotechnology and society - perceived vs actual benefits and drawbacks, legal and ethical issues, regulations governing biotechnology research and industry; considerations in the genesis of the typical biotechnology process/product/enterprise: development costs, venture capital, patenting, product safety, legislation, marketing. Case studies on the interdisciplinary nature of biotechnology and factors favouring local/regional development of a biotechnology industry will also be included. Some field trips may be required.

LEVEL III

BIOTECH 3000
Biotechnology Practice III

6 units - semester 2

3 x 1 hour lectures, 1 hour tutorial , 5 hrous project work per week

Restriction: BSc (Biotechnology)

Available for Non-Award Study

Prerequisite: MICRO 2504, MICRO 2505, BIOCHEM 2502 and BIOCHEM 2503

Assessment: Written exam, project

The aim of this course is to add to the strong scientific focus of the degree by providing an introduction to aspects of technology, business and ethical issues relevant to the diverse nature of biotechnology industry. Students completing this course should be well equipped to undertake further studies (e.g. Honours in Biotechnology or a Master of Business Administration), obtain employment in research laboratories, obtain employment in local, interstate and overseas biotechnology companies or create their own business. Topics include intellectual property and its commercialisation, basic business accounting, preparing a business plan, principles in bioprocess engineering and design, use of animal and plant cell culture systems, validation and monitoring, food biotechnology, genetically modified organisms, food additives and byproducts. The group-based project involves preparation of a business plan to operate a model biotechnology business.

Chemistry

LEVEL I

CHEM 1100
Chemistry IA

3 units - semester 1

3 x 1 hour lectures, 1 hour tutorial per week, 6 x 3 hour practicals per semester

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 and CHEM 1201

Assessment: Exam, 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 1101
Foundations of Chemistry IA

3 units - semester 1

3 x 1 hour lectures, 1 hour tutorial per week, 5 x 3 hour practicals per semester

Restriction: SACE Stage 2 Chemistry Subject Achievement score of less than 13 or equiv or with no SACE Stage 2 Chemistry.

Available for Non-Award Study

Assumed Knowledge: SACE Stage 2 Chemistry or equivalent

Incompatible: CHEM 1100 and CHEM 1200

Assessment: Exam, practical work, computer assessed tutorials

Atoms, Molecules & Structure - an introduction to theories of molecule formation and structure including the importance of molecular shape; intermolecular forces. Chemistry of the Elements - an introduction to the chemistry of the elements, including redox processes, natural and biological element cycles, atmospheric chemistry and the crucial differences in the chemistries of the s-, p- and d-block elements.

CHEM 1200
Chemistry IB

3 units - semester 2

3 x 1 hour lectures, 1 hour tutorial per week, 6 x 3 hour practicals per semester

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 1101 and 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 x 1 hour lectures, 1 hour tutorial per week, 5 x 3 hour practicals per semester

Restriction: SACE Stage 2 Chemistry Subject Achievement score of less than 13 or equiv or with no SACE Stage 2 Chemistry.

Available for Non-Award Study

Assumed Knowledge: CHEM 1101

Incompatible: CHEM 1100 and CHEM 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.

CHEM 1510
Chemistry IA (Pre-Vet)

3 units - semester 1

3 x 1 hour lectures, 1 hour tutorial per week, 6 x 3 hour practicals per semester

Restriction: B Science (Animal Science: Pre-Vet)

Prerequisite: SACE Stage 2 Chemistry with Subject Achievement score of at least 13 or equiv - in exceptional circumstances, consult Head of Chemistry

Incompatible: CHEM 1511 and CHEM 1521

Assessment: Exam, 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 1511
Foundations of Chemistry IA (Pre-Vet)

3 units - semester 1

3 x 1 hour lectures, 1 hour tutorial per week, 5 x 3 hour practicals per semester

Restriction: BSc (Animal Science: Pre-Vet) with SACE Stage 2 Chemistry Subject Achievement score of less than 13 or equiv or with no SACE Stage 2 Chemistry.

Assumed Knowledge: SACE Stage 2 Chemistry or equivalent

Incompatible: CHEM 1510 and CHEM 1520

Assessment: Exam, practical work, computer assessed tutorials

Atoms, Molecules & Structure - an introduction to theories of molecule formation and structure including the importance of molecular shape; intermolecular forces. Chemistry of the Elements - an introduction to the chemistry of the elements, including redox processes, natural and biological element cycles, atmospheric chemistry and the crucial differences in the chemistries of the s-, p- and d-block elements.

CHEM 1520
Chemistry IB (Pre-Vet)

3 units - semester 2

3 x 1 hour lectures, 1 hour tutorial per week, 6 x 3 hour practicals per semester

Restriction: BSc (Animal Science: Pre-Vet)

Prerequisite: SACE Stage 2 Chemistry Subject Achievement score of at least 13 or equiv - in exceptional circumstances, consult Head of Chemistry

Assumed Knowledge: CHEM 1510

Incompatible: CHEM 1511 and CHEM 1521

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 1521
Foundations of Chemistry IB (Pre-Vet)

3 units - semester 2

3 x 1 hour lectures, 1 hour tutorial per week, 5 x 3 hour practicals per semester

Restriction: BSc (Animal Sc: Pre-Vet) with SACE Stage 2 Chemistry Subject Achievement score of less than 13 or equiv or with no SACE Stage 2 Chemistry.

Assumed Knowledge: CHEM 1511

Incompatible: CHEM 1510 and CHEM 1520

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 2510
Chemistry IIA

3 units - semester 1

3 x 1 hour lectures, 1 hour tutorial per week, 8 x 5 hour practicals per semester

Available for Non-Award Study

Prerequisite: CHEM 1100 and CHEM 1200 or Credit in CHEM 1101 and CHEM 1201. Other students may apply to Head of Chemistry for exemption

Incompatible: CHEM 2512, 2514, 2516, 2100, 2105, 2106 & 2107

Assessment: Exam, practical work, tutorials

Studies in Chemistry at Level II 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 or pursue alternative pathways in the biological, environmental, earth and physical sciences.

Chemistry IIA focuses on chemical reactivity and illustrates 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 stereochemistry, synthesis, properties and reactions of molecules, thermodynamics, kinetics and the principles of metal ligand chemistry.

CHEM 2512
Chemistry IIA (Ecochemistry)

3 units - semester 1

3 x 1 hour lectures, 1 hour tutorial per week, 8 x 5 hour practicals per semester

Restriction: BSc (Ecochemistry)

Prerequisite: CHEM 1100 & 1200 or Credit in CHEM 1101 & 1201 - other students apply to Head of Chemistry for exemption

Incompatible: CHEM 2510, 2514, 2516, 2100, 2105, 2106 & 2107

Assessment: Exam, practical work, tutorials

Studies in Chemistry at Level II 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 or pursue alternative pathways in the biological, environmental, earth and physical sciences.

Chemistry IIA (Ecochemistry) focuses on chemical reactivity and illustrates 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 stereochemistry, synthesis, properties and reactions of molecules, thermodynamics, kinetics and the principles of metal ligand chemistry.

CHEM 2514
Chemistry IIA (Molecular and Drug Design)

3 units - semester 1

3 x 1 hour lectures, 1 hour tutorial per week, 8 x 5 hour practicals per semester

Restriction: BSc (Molecular and Drug Design)

Prerequisite: CHEM 1100 & 1200 or Credit in CHEM 1101 & 1201 - other students apply to Head of Chemistry for exemption

Incompatible: CHEM 2510, 2514, 2516, 2100, 2105, 2106 & 2107

Assessment: Exam, practical work, tutorials

Studies in Chemistry at Level II 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 or pursue alternative pathways in the biological, environmental, earth and physical sciences.

Chemistry IIA (Molecular and Drug Design) focuses on chemical reactivity and illustrates 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 stereochemistry, synthesis, properties and reactions of molecules, thermodynamics, kinetics and the principles of metal ligand chemistry.

CHEM 2516
Chemistry IIA (Nanoscience and Materials)

3 units - semester 1

3 x 1 hour lectures, 1 hour tutorial per week, 8 x 5 hour practicals per semester

Restriction: BSc (Nanoscience and Materials)

Prerequisite: CHEM 1100 & 1200 or Credit in CHEM 1101 & 1201 - other students apply to Head of Chemistry for exemption

Incompatible: CHEM 2510, 2514, 2516, 2100, 2105, 2106 & 2107

Assessment: Exam, practical work, tutorials

Studies in Chemistry at Level II 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 or pursue alternative pathways in the biological, environmental, earth and physical sciences.

Chemistry IIA (Nanoscience and Materials) focuses on chemical reactivity and illustrates 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 stereochemistry, synthesis, properties and reactions of molecules, thermodynamics, kinetics and the principles of metal ligand chemistry.

CHEM 2520
Chemistry IIB

3 units - semester 2

3 x 1 hour lectures, 1 hour tutorial per week, 8 x 5 hour practicals per semester

Available for Non-Award Study

Prerequisite: CHEM 1100 & 1200 or Credit in CHEM 1101 & 1201 - other students apply to Head of Chemistry for exemption

Assumed Knowledge: CHEM 2510

Incompatible: CHEM 2205, 2206, 2210, 2526

Assessment: Exam, practical work, tutorials

Studies in Chemistry at Level II 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 or pursue alternative pathways in the biological, environmental, earth and physical sciences.

Chemistry IIB focusses on structure determination and 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, homogeneous catalysis and organic synthesis.

CHEM 2522
Chemistry IIB (Ecochemistry)

3 units - semester 2

3 x 1 hour lectures, 1 hour tutorial per week, 8 x 5 hour practicals per semester

Restriction: BSc (Ecochemistry)

Prerequisite: CHEM 1100 and CHEM 1200 or Credit in CHEM 1101 and CHEM 1201 - other students may apply to Head of Chemistry for exemption

Assumed Knowledge: CHEM 2512

Incompatible: CHEM 2520, 2524, 2526, 2200, 2205, 2206 & 2210

Assessment: Exam, practical work, tutorials

Studies in Chemistry at Level II 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 or pursue alternative pathways in the biological, environmental, earth and physical sciences.

Chemistry IIB (Ecochemistry) focusses on structure determination and 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, homogeneous catalysis and organic synthesis.

CHEM 2524
Chemistry IIB (Molecular and Drug Design)

3 units - semester 2

3 x 1 hour lectures, 1 hour tutorial per week, 8 x 5 hour practicals per semester

Restriction: BSc (Molecular and Drug Design)

Prerequisite: CHEM 1100 and CHEM 1200 or Credit in CHEM 1101 and CHEM 120 - other students may apply to Head of Chemistry for exemption

Assumed Knowledge: CHEM 2514

Incompatible: CHEM 2520, 2524, 2526, 2200, 2205, 2206 & 2210

Assessment: Exam, practical work, tutorials

Studies in Chemistry at Level II 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 or pursue alternative pathways in the biological, environmental, earth and physical sciences.

Chemistry IIB (Molecular and Drug Design) focusses on structure determination and 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, homogeneous catalysis and organic synthesis.

CHEM 2526
Chemistry IIB (Nanoscience and Materials)

3 units - semester 2

3 x 1 hour lectures, 1 hour tutorial per week, 8 x 5 hour practicals per semester

Restriction: BSc (Nanoscience and Materials)

Prerequisite: CHEM 1100 and CHEM 1200 or Credit in CHEM 1101 and CHEM 1201 - other students may apply to Head of Chemistry for exemption

Assumed Knowledge: CHEM 2516

Incompatible: CHEM 2520, 2524, 2526, 2200, 2205, 2206 & 2210

Assessment: Exam, practical work, tutorials

Studies in Chemistry at Level II 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 or pursue alternative pathways in the biological, environmental, earth and physical sciences.

Chemistry IIB (Nanoscience and Materials) focusses on structure determination and 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, homogeneous catalysis and organic synthesis.

CHEM 2530
Environmental & Analytical Chemistry II

3 units - semester 1

3 x 1 hour lectures, 1 hour tutorial per week, 8 x 5 hour practicals per semester

Available for Non-Award Study

Prerequisite: CHEM 1100 & 1200 or CHEM 1101 & 1201

Incompatible: CHEM 2003, 2207, 2208 and 2209

Assessment: Exam, practical work, assignment & presentation

This course aims to establish a sound understanding of the chemistry of the biosphere and the impact of natural and human induced events on local and global environments. The atmospheric, terrestrial, riverine and oceanic chemical compositions and their interactions to produce climate and other environmental variations are also examined. Students are trained in the application of tecniques used by professional chemists to determine chemical composition and analyse for trace compounds, which is central to the aforementioned discussions. These techniques include chromatography, electrochemical and optical spectroscopies, statistical analysis of data and use of advanced instrumentation and data logging devices. The environmental impact of human activities, such as farming, mining and other industries is examined in general terms and by use of case studies, as are the issues surrounding the ethical practice of chemistry and science in general.

CHEM 2540
Medicinal & Biological Chemistry II

3 units - semester 2

3 x 1 hour lectures, 1 hour tutorial per week, 8 x 5 hour practicals per semester

Available for Non-Award Study

Prerequisite: CHEM 1100 & 1200 or CHEM 1101 & 1201

Assumed Knowledge: CHEM 2510

Assessment: Exam, practical work, assignment & presentation

An introduction to the principles and methods of medicinal chemistry including natural product and biopolymer isolation, lead generation, lead optimisation and quantitative structure-activity relationships will be presented. An introduction to the principles of biophysical chemistry will be presented, which will include techniques focused on enzyme activity and inhibition. The different classes of biologically important molecules will be introduced, including discussion on their biosynthesis. An introduction to metalloprotein and bioinorganic chemistry will be presented, including discussion of the structure and function of metalloenzymes and metalloproteins.

LEVEL III

CHEM 3005
Topics in Chemistry IIIA

6 units - semester 1

4 x 1 hour lectures, 1 hour tutorial, 2 x 5 hour practicals per week

Available for Non-Award Study

Prerequisite: CHEM 2510 and CHEM 2520 or Equiv

Course content by arrangement with the Head of Chemistry.

CHEM 3006
Topics in Chemistry IIIB

6 units - semester 2

4 x 1 hour lectures, 1 hour tutorial, 2 x 5 hour practicals per week

Available for Non-Award Study

Prerequisite: CHEM 2510 and CHEM 2520 or Equiv

Course content by arrangement with the Head of Chemistry.

CHEM 3111
Chemistry III

6 units - semester 1

4 x 1 hour lectures, 2 x 1 hour tutorial, 2 x 5 hour practicals per week

Available for Non-Award Study

Prerequisite: CHEM 2510 and CHEM 2520 or equivalent

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 x 1 hour lectures, 1 hour tutorial, 2 x 5 hour practicals per week

Available for Non-Award Study

Prerequisite: CHEM 2510 and CHEM 2520 or Equiv

Corequisite: CHEM 3111

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 x 1 hour lectures, 1 hour tutorial, 5 hour practicals per week

Available for Non-Award Study

Prerequisite: CHEM 2510 and CHEM 2520 or equivalents

Assumed Knowledge: CHEM 3111

Incompatible: CHEM 3109, 3110, 3209 and 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 cryptants 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 x 1 hour lectures, 1 hour tutorial, 5 hour practicals per week

Available for Non-Award Study

Prerequisite: CHEM 2510 and CHEM 2520 or equivalents

Assumed Knowledge: CHEM 3111

Incompatible: CHEM 3109, 3110, 3209 and 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 x 1 hour lectures, 1 hour tutorial, 5 hour practicals per week

Available for Non-Award Study

Prerequisite: CHEM 2510 and CHEM 2520 or equivalents

Assumed Knowledge: CHEM 3111

Incompatible: CHEM 3109A, 3110, 3209 and 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 x 1 hour lecturesk, 1 hour tutorial, 5 hour practicals per week

Available for Non-Award Study

Prerequisite: CHEM 2510 and CHEM 2520 or equivalents

Assumed Knowledge: CHEM 3111

Incompatible: CHEM 3109, 3110, 3209 and 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 standard satisfactory to 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 Bachelor of Environmental Science (Chemistry)

12 units - full year

Prerequisite: Credit or higher in at least 2 Level III courses approved by Head of Chemistry.

Assessment: Research proposal, seminars, thesis, viva voce, average of Level III courses referred to above

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

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 and tests, oral tests, mid-term test and 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 equivalent)

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 1013
Classical Chinese Texts for Chinese Speakers

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: Native or near native Chinese language proficiency. Students who have completed level IV Chinese or equivalent may enrol only after consultation, and at discretion of course coordinator

Incompatible: CHIN 1001, CHIN 1011, CHIN 2001/2201, CHIN 2011, CHIN 3001/3201, CHIN 3011/3211 and students who have completed CHIN 2003, CHIN 2004, CHIN 3002/3202, 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 for Chinese Speakers

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: Native or near native Chinese language proficiency. Students who have completed level IV Chinese or equivalent 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: Assignments 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 2201
Chinese IIA

3 units - semester 1

4 contact hours per week

Available for Non-Award Study

Prerequisite: CHIN 1002, or Continuers Chinese & score of 14 or better in SACE Stage 2 or equiv with approval of Head of Discipline

Corequisite: ASIA 1101 or ASIA 2021*

Assumed Knowledge: At least 400 Chinese characters and basic Chinese grammar patterns

Incompatible: CHIN 2001

Assessment: Weekly dictation quiz, translation exercises, oral and written tests, class participation, final written exam

This course is for students who have completed Chinese 1B. It consists of tuition in speaking, listening to, writing and reading modern standard Chinese. This course extends students' knowledge of basic grammar, vocabulary and structures found in the spoken and written forms of Contemporary Chinese. The 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 students will know about 650 Chinese characters and associated compounds related to contemporary China.

* It is strongly recommended that students without Chinese I take ASIA 1101, and students with Chinese IA & IB take ASIA 2021.

CHIN 2202
Chinese IIB

3 units - semester 2

4 contact hours per week

Available for Non-Award Study

Prerequisite: CHIN 2001/2201 or approval of Head of Discipline

Corequisite: ASIA 1101 for students majoring in Chinese

Assumed Knowledge: At least 650 Chinese characters and basic Chinese grammar patterns

Incompatible: CHIN 2002

Assessment: Weekly dictation quiz, translation exercises, oral and written tests, class participation, final written exam

This course is a continuation of Chinese IIA. It consists of tuition in the speaking, listening to, writing and reading of modern standard Chinese. This course further extends students' knowledge of basic grammar, vocabulary and structures found in the spoken and written forms of Contemporary 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 and most commonly used Chinese grammar patterns.

LEVEL III

CHIN 3201
Chinese IIIA

3 units - semester 1

3 contact hours per week

Available for Non-Award Study

Prerequisite: CHIN 2002/2202 or equivalent

Incompatible: CHIN 3001

Assessment: Listening and 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 have an active vocabulary of around 1200 Chinese characters and associate compounds, and should be able to read simple texts in modern Chinese using reference materials.

CHIN 3202
Chinese IIIB

3 units - semester 2

3 contact hours per week

Available for Non-Award Study

Prerequisite: CHIN 3001/3201 or equivalent

Incompatible: CHIN 3002

Assessment: Tests on Chinese characters, written tests, composition/short essay, final exam

This course aims to consolidate and extend the language skills developed by means of further 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. Students will continue their linguistics skills and gain further training in reading modern literary and journalistic styles. The texts studies 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 have an active vocabulary of around 1500 Chinese characters and associate compounds, should be able to read simple original texts in modern Chinese with the aid of reference materials, and should be able to write short essays in Chinese on issues about Chinese culture and society.

CHIN 3203
Chinese IIIB: Project

3 units - semester 2

3 contact hours per week

Available for Non-Award Study

Prerequisite: CHIN 3001/3201 or equivalent

Corequisite: CHIN 3202

Assessment: Regular listening exercises 20%, 3 listening tests 30%, 2 oral presentations 40%, classroom presentation 10%

This course provides students with learning and practice in spoken Chinese. Listening and speaking exercises will be the focus of classroom activities. Students will gain further understanding of Chinese culture and society through textbooks and audio-video materials in modern standard Chinese in the course. At the end of the semester students should be able to engage in selected topics of everyday conversation in Chinese, and be able to understand and discuss general topics on Chinese culture and society in the target language.

CHIN 3211
Chinese IIISA

3 units - semester 1

3 contact hours per week

Available for Non-Award Study

Prerequisite: CHIN 2012/2212 or CHIN 3002/3202 or equivalent

Incompatible: CHIN 3011

Assessment: Three tests in grammar & translation 15%, 1000 word essay in target language 20%, oral presentation 15%, participation 10%, written exam 40%

This course is an advanced program in Chinese language studies. Students will read a selection of modern Chinese documents and literature. Students will also be expected to study the social and cultural background to the readings. By the end of the course, students will be familiar with a range of contemporary 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 3212
Chinese IIISB

3 units - semester 2

3 contact hours per week

Available for Non-Award Study

Prerequisite: CHIN 3011/3211 or equivalent

Incompatible: CHIN 3012

Assessment: Tests in grammar and translation, 1,500 word essay in target language, oral presentation, participation, written exam

This course is a continuation of Chinese IIISA. Students will read a selection of modern Chinese documents and literature. Students will also be expected to study the social and cultural background to the readings. In addition, there will be an introduction to the basic features of Classical Chinese. By the end of the course, students will be familiar with a range of contemporary 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 3213
Chinese IIISA: Project

3 units - semester 1

2 contact hours per week

Available for Non-Award Study

Prerequisite: CHIN 3002/3202 or equivalent

Corequisite: CHIN 3211

Assessment: Research project essay, seminar presentation, participation

As an extended program related to Chinese IIISA, the course will introduce a range of writings in Chinese literature and history. The original texts, of which most are accompanied with English translations, include Chinese fiction, poetry and history documents. The Chinese grammar, syntactic structure, the writing styles as well as the historical and social backgrounds of the works will be discussed. By the end of the course students will achieve a better understanding of Chinese literature, history and society; and have developed knowledge and skills in research in Chinese language.

CHIN 3221
Translation for Chinese Speakers

3 units - semester 1

3 contact hours per week

Available for Non-Award Study

Prerequisite: Native or near native Chinese language proficiency (including Chinese dialects)

Assumed Knowledge: Completion of junior secondary school or above in China, other Chinese speaking countries or regions or equiv

Incompatible: Chinese IA & B, Chinese IIA & B, Chinese IIIA, IIIB & IIIB: Project, Chinese IIISA, IIISB & IIISA: Project

Assessment: Translation exercises, 2 translation tests, final exam, classroom participation

The course is designed to further develop students' linguistic skills and knowledge of modern standard Mandarin Chinese through translation exercises. It consists of tuition in Chinese and English syntax and semantics as well as translation practice. Methods of comparative study and analysis of Chinese and English grammatical features and characteristics will be applied in classroom and students' exercise.

CHIN 3222
Translation for Chinese Speakers: Project

3 units - semester 1

3 contact hours per week

Available for Non-Award Study

Prerequisite: Native or near native Chinese language proficiency (including Chinese dialects)

Corequisite: CHIN 3221

Assumed Knowledge: Completion of junior secondary school or above in China, other Chinese speaking countries or regions or equiv

Incompatible: Chinese IA & B, Chinese IIA & B, Chinese IIIA, IIIB & IIIB: Project, Chinese IIISA, IIISB & IIISA: Project

Assessment: One translation project of 4,000 - 5,000 words, seminar participation

This course is an extension of Chinese Translation. It is a practical project that engages students to apply the translation knowledge and skills learned from the Chinese Translation course in practice. Each student will conduct a translation project on a topic agreed by the lecturer. The translation text will be of 4,000 - 5,000 words.

CHIN 3231
Issues in Chinese Culture for Chinese Speakers

3 units - semester 2

3 contact hours per week

Available for Non-Award Study

Prerequisite: 12 units Level I Humanities and Social Sciences

Assumed Knowledge: Native or near native Chinese language proficiency

Incompatible: Chinese IB, Chinese ISB, Chinese IIB, Chinese IISB, Chinese IIIB, Chinese IIISB, Chinese IIISA: Project

Assessment: Tutorial participation, tutorial presentation and paper, research essay, final exam

This course introduces major issues in the study of Chinese society and culture in Chinese. It caters for the special needs of international students with native or near native Chinese language proficiency who are studying in an English language environment. It focuses on key social and cultural issues in modern China and examines the influence of traditional society on them. By the end of the semester students will be familiar with some of the central concerns of Chinese culture and with some key ways of studying them.

CHIN 3232
Research Project for Chinese Speakers

3 units - semester 2

3 contact hours per week

Available for Non-Award Study

Prerequisite: 12 units Level I Humanities and Social Sciences

Corequisite: Issues in Chinese Culture

Assumed Knowledge: Native or near native Chinese language proficiency

Incompatible: Chinese 1B, Chinese 1SB, Chinese IIB, Chinese IISB, Chinese IIIB, Chinese IIISB, Chinese IVB.

Assessment: Annotated bibliography, research paper, 5000 Chinese characters

This course is designed for students to build on the understandings learnt in 'Issues in Chinese Culture' (co-requisite), where appropriate, in order to gain a deeper insight into the complexity of issues covered. It is a research project that engages students to further develop writing, critical and analytical skills which prepare them for Honours studies. Students will be required to attend workshops to design their research topics, and conduct research on issues relating to Chinese culture. They will learn how to frame a research problem and devise appropriate and effective ways of examining it. By the end of the course, the student will complete a research project (5000 Chinese characters) on a topic agreed by the lecturer.

HONOURS

CHIN 4401A/B
Honours Chinese

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 Advanced Level studies to ensure that appropriate course choices are made in preparation for Honours. In order to fulfil 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. Theses 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

LEVEL I

CLAS 1001
From Egypt to Greece:
Divine Rulers and Popular Tyrants

3 units - semester 1

3 contact hours per week

Available for Non-Award Study

Assessment: 2 x 1,200 word tutorial papers 50%, 4 x on-line quizzes (revision) 10%, two-hour exam 40%

This foundation 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 (1500-450 BCE). The lectures will deal with Egypt, Bronze Age Greece, Persia and the early Greek states.

CLAS 1002
Citizens, Cults & Emperors: Power & Status in Greece & Rome

3 units - semester 2

3 contact hours per week

Available for Non-Award Study

Assessment: 2 x 1,200 word tutorial papers 60%, two-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.

ADVANCED LEVEL

CLAS 2023
Poetry and the Passions in Antiquity

3 units - Offered Biennially

3 contact hours per week

Available for Non-Award Study

Prerequisite: 12 units Level I Humanities/Social Sciences

Assessment: 2 x 1,000 word tutorial papers 40%, 7 x 100 word tutorial summaries 20%, 2,500 word academic journal or 2-hour exam 40%

The course focuses upon the ways in which various 'passions' or extreme emotional states (love, hate, rage, jealousy, grief, joy etc.) were expressed and explored in the poetry of the Ancient Greek and Roman worlds. Beginning with the love poetry of the Greek poet Sappho (6th century BC) and ending with the early Christian poet Prudentius' descriptions of the 'passions' of the martyrs (5th century CE), the course will traverse a wide variety of poetic genres and emotional states including the invective and ridicule of early Greek poets such as Hipponax, the satirical poetry of the Roman poets Juvenal and Martial and the mourning elegies and lyrics of poets such as Catullus and Horace. Throughout the course we will explore such questions as: How did people deal with and react to extreme emotional states in the ancient world? Why is poetry such a good vehicle for conveying emotion? To what extent were there set conventions and established methods of conveying these emotions in ancient poetry? How far were the different poetic forms and various 'passions' a product of the particular social conditions under which they were produced?

CLAS 2024
Ancient Medicine and its Legacy

3 units - Offered biennially

3 contact hours per week

Available for Non-Award Study

Prerequisite: 12 units Level I Humanities/Social Sciences

Incompatible: CLAS 2003/3003

Assessment: 2 x 1,400 word papers 40%, presentation (extra reading) 10%, 10 x 120 word tutorial summaries 10%, 2-hour exam 40%

The course studies ancient medicine in Greco-roman times as a prime example of the Western scientific tradition. It highlights important contributions to the fields of science and medicine, from the Hippocratics (450 BC) to Hellenistic Alexandria (Herophilus) down to the late Roman empire (Soranus, Galen, Caelianus) but also its lasting legacy in medieval and Arabic culture. The lectures consider the material, social and intellectual conditions for the rise of rational medicine, influential medical authors and general issues such as the relation between religion and science, attitudes towards progress, medical theories and practices, and the transmission of scientific knowledge up to the early modern age (Vesalius, Harvey).

CLAS 2025
Europe from Late Antiquity to Early Middle Ages

3 units - Offered biennially

3 contact hours per week

Available for Non-Award Study

Prerequisite: 12 units Level I Humanities/Social Sciences including CLAS 1001 and/or 1002

Incompatible: CLAS 2006/3006

Assessment: 2 x 1,000 word tutorial papers 15% each, 2,500 word essay 30%, 2-hour exam 40%

This course examines a period of transformation, from the barbarian invasions of the old Roman Empire to the 'new' Roman Empire of Western Europe. The intellectual and religious tensions within this period will be studied especially the role of the Church in the society as well as its material culture and socio-economic and political structures. Regions surveyed will include the Frankish, Anglo-Saxon, and Lombardic Italian kingdoms.

CLAS 2026
Eastern Mediterranean Archaeological Field School

3 units - summer semester

Fieldwork of 4 weeks' duration on an excavation in Jordan

Prerequisite: 12 units Level I Humanities/Social Sciences; at least one of CLAS 2005/3005, CLAS 2007/3007, CLAS 2013/3013. For cross-institutional students, subject to approval by the course coordinator

Incompatible: CLAS 2021/3021

Assessment: 3 practical tests 30%, individual trench recording - ca 1,500 words 20%, written group report - ca 2,500 words per student 50%

Students will develop basic skills in trench recording, excavation and site-interpretation during a 4-week overseas archaeological field-school at a Roman to mediaeval site in the Eastern Mediterranean region. Basic techniques in surveying, planning, section-drawing, site photography, context recording and the creation of a basic Harris matrix will all be taught and assessed. From a secure dig-house in the Hashemite Kingdom of Jordan, students will become familiar through first-hand experience of the range of material culture within this formerly wealthy and culturally-diverse Roman province, and will visit well-preserved cities such as Jarash and Gadara.

CLAS 2027
Egypt, Greece and the Aegean

3 units - Offered biennially

3 contact hours per week

Available for Non-Award Study

Prerequisite: 12 units Level I Humanities/Social Sciences including CLAS 1001 and/or 1002

Incompatible: CLAS 2005/3005

Assessment: 1,000 word seminar paper 15%, 2,500 word essay 35%, visual test 10%, 2-hour exam 40%

This course will examine the emergence of Greek civilisation by exploring its cultural and political interrelationships with Egypt and those cultures neighbouring the Aegean during the Bronze and early Iron Ages, using archaeological evidence. Special emphasis will be placed on the study of Late Bronze Age Aegean and mainland Greece, the period of Mycenaean culture.

CLAS 2101
Beginner's Latin

3 units - semester 1

3 contact hours

Available for Non-Award Study

Prerequisite: 12 units Level I Humanities/Social Sciences

Incompatible: not available to students who reached a satisfactory level of achievement in SACE Stage 2 Latin (or equiv), or LATN 1002/LATN 2010

Assessment: 3 semester tests 35%, end-of-semester exam 65%, weekly language assisgnments (formative assessment only)

The course introduces students to the rudiments of Latin grammar, syntax and 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 fundamental grammatical constructions and improves their comprehension skills.

CLAS 2102
Advanced Latin

3 units - semester 2

3 contact hours per week

Available for Non-Award Study

Prerequisite: LATN 2004 Beginner's Latin or equivalent

Incompatible: LATN 2002/3011

Assessment: 3 semester tests 35%, end-of-semester exam 65%, weekly language assignments (formative assessment only)

This course aims to introduce students to the more complex and sophisticated grammatical constructions of the Latin language while familiarising them with 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.

CAPSTONE

CLAS 3100
Unpeeling the Past: Ancient History & Archaeology

3 units - semester 2

3 contact hours per week

Prerequisite: 15 units from any of CLAS 1001, 1002, 2005, 2006, 2007, 2009, 2010, 2013, 2016, 2017, 2021, 2025, 2027, 2028, 2028, 2029, 2033, 2034, 2035, 2036, 3005, 3006, 30072026, , 3009, 3010, 3013, 3016,3017, 3021

Assessment: 2 x 15000 word seminar papers 50%, 2500-3000 word essay 50%

To what extent can we find out 'truth' about the past? How do we recreate the past on paper? How does the historian's enterprise differ from other forms of story telling? How does the archaeologist's differ from the historian's? Why is one particular narrative chosen over another? How can such diverse narratives be integrated?

Drawing on the research strengths of the discpline, this course combines elements from both disciplines and presents a holistic approach to the past that provides students wiht a thorough grounding in the use of both literary and non-literary evidence of their study of ancient cultures. It has three modules: 1] an introduction to the exploartion of issues in ancient history and modern archaeology; 2] specialised sub-options in ancient history and archaeology on specific topics (eg the role of 'chance' in ancient history, biography versus history, art history, and numismatics; 3] case studies that explore the strengths and limitations of both textual and material evidence taken from the Greek Classical and Hellenistic periods, and the Roman Empire (on topics such as Macedonian royal family and the Eastern Roman Province).

CLAS 3101
The Message and the Medium in Classical Literature

3 units - semester 2

3 contact hours per week

Prerequisite: 15 units from any of CLAS 1001, 1002, 2005, 2006, 2007, 2009, 2010, 2013, 2016, 2017, 2021, 2025, 2027, 2028, 2028, 2029, 2033, 2034, 2035, 2036, 3005, 3006, 30072026, , 3009, 3010, 3013, 3016,3017, 3021

Assessment: Presentation 10%, participation 20%, seminar paper 30%, long research paper 40%

In this Capstone course, students will study some of the great classical authors from antiquity. The course proceeds by in-depth reading of carefully selected works/passages that illustrate the theme of 'the medium and the message' while also exploring important questions of genre, style and content. The close reading of these texts, aided by secondary readings, will lead to a deeper understandin of how we should approach these works in different genres (how does genre determine method?), what their lasting value is (when is a work considred a classic?).

In parallel with this detailed analysis the course also offers opportunities to trace their reception (how influential are they?), providing a glimpse of the evolution of classical scholarship in later periods.

HONOURS

CLAS 4401A/B
Honours Classical Studies

24 units - full year

Prerequisite: UG degree with credit average in Classics major; successful completion of 1 yr of ancient language; at least 4 courses from either Classics Group A or B - see below for full list - special exemption from any criteria may be considered by the Discipline

Assessment: common course - 2 x ca 4000 word seminar papers 25%, specialist courses - written work totalling 8000 words 25%, 15000-20000 word thesis 50%

Since not all the above courses are offered every year, students are strongly advised to consult with the Discipline Advisor or Honours Coordinator before commencing Advanced Level courses to ensure that appropriate choices are made.

Students wishing to take Honours Classical Studies should have successfully completed at least 4 courses from one of the following two groups:

Group A: CLAS 2005/3005, 2006/3006, 2007/3007, 2009/3009, 2010/3010, 2012/3012, 2013/3013, 2016/3016, 2021/3021

Group B: CLAS 2003/3003, 2004/3004, 2015/3015, 2020/3020, EUST 2014/3014.

Students are also strongly advised that postgraduate studies in archaeology, ancient history, literature or cultural studies will require at 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 and Seminar B: Specialist Courses. For the two half-semester common 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 Discipline in accordance with the interests of the students and the availability of specialised teaching. Research thesis: 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% - dissertation will form part of Honours exam

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 dissertation 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 or Qualitative Methods; Advanced Readings. The Fourth module will be ian Advanced Theory course in the discipline area of the student's thesis topic and may include: Advanced Theory in Accounting; Advanced Theory in Finance; Advanced Theory in Management; Advanced Theory in Marketing Management.

Commercial Law

LEVEL I

COMMLAW 1004
Commercial Law I

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 2500
Commercial Law II

3 units - semester 1 or 2

2 lectures, 2 hour tutorial, 8 hours self-directed study per week

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 or COMMLAW 2500

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.

COMMLAW 3011
Business Tax & GST III

4 units - semester 2

1 lecture, 2 tutorials, 13 hrs self-directed study

Assumed Knowledge: COMMLAW 3010

Assessment: Typically participation 10%, assignment 20%, exam 70%

The objective of the course is to help students understand the law and application of key types of business taxes including the goods and services tax. The course aims to build upon the concepts covered in Income Tax Law III, and this subject is assumed knowledge. Topics to be covered include: an Introduction to Business Taxes, including a review of the taxation of business income and a review of recent business tax reforms; Business Tax Entity Issues, including taxation of entity distributions, treatment of losses and entity consolidations; Capital Gains Tax Special Topics, including roll-over relief and the application of the Small Business CGT concessions; Goods and Services Tax fundamental concepts; Remuneration Taxes, including fringe benefits tax and superannuation guarantee charge; State Business Taxes, including land tax, payroll tax and stamp duties and International tax issues. The course will apply the concepts to facilitate Tax Planning, and in particular with respect to highlighting the various issues on the acquisition and disposal of a business.

COMMLAW 3500
Income Tax Law III

3 units - semester 2 (Not offered until 2010)

2 lectures, 2 hour tutorial, 8 hours self-directed study per week

Prerequisite: COMMLAW 2000 or COMMLAW 2500

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: first 6 weeks

8 hours lectures, 1 hour tutorial, 2 hours practical laboratory sessions per week

Restriction: approved students only

Available for Non-Award Study

Assessment: Written exam; compulsory projects, tutorials, practical exams

Programming in Java: variables, control structures, methods, classes, input/output; object orientation, interfaces, inheritance; introduction to graphical user interfaces. Introductory programming techniques in Java: recursion, artificial intelligence, finite state machines sorting and generics.

COMP SCI 1008
Computer Science IA

3 units - semester 1 or 2

3 lectures, 1 tutorial , 2 hours practical work per week

Available for Non-Award Study

Assumed Knowledge: SACE Stage 2 Math. Studies

Incompatible: COMP SCI 1004, PURE MTH 1002

Assessment: Written exam, practical assignments, compulsory practical exams, compulsory tutorials

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: COMP SCI 1000, COMP SCI 1004, 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, graphics, artificial intelligence, sorting and searching, theory of computation, ethics for Information Technology, introduction to complexity

COMP SCI 1010
Puzzle Based Learning

3 units - semester 1

24 hours lectures, 12 hours tutorials, 24 hours practicals

Available for Non-Award Study

Assumed Knowledge: SACE level 2 Maths Sciences

Assessment: Practicals 50%, final exam 50%

The focus of this course is on getting students to think about framing and solving unstructured problems (those that are not encountered at the end of some textbook chapter). The general objective is to increase the student's mathematical awareness and problem-solving skills by discussing a variety of puzzles. The puzzle-based learning approach has a long tradition as the first mathematical puzzles were found in Sumerian texts that date back to around 2,500 BC The puzzles selected for the course satisfy most of the following criteria: a] Generality: educational puzzles explain some universal mathematical problem-solving principles; b] Simplicity: educational puzzles are easy to state and easy to remember; c] Eureka factor: educational puzzles often frustrate the problem-solver! Eventually a Eureka! moment is reached. The Eureka factor also implies that educational puzzles have often elementary solutions that are not obvious; d] Entertainment factor: educational puzzles are very entertaining!

Such educational puzzles are used to illustrate basic concepts of critical thinking, mathematics, and problem-solving. The course presents some problem-solving rules and covers issues of understanding the problem and the role of intuition in problem-solving activities. Further, some mathematical problem-solving principles are discussed and elements of modeling, constraint-processing, optimization, probability, statistics, simulation, pattern recognition, and strategy are introduced.

COMP SCI 1011
Communication & Study Skills

3 units - semester 1 or 2

24 hours lectures, 6 hours tutorials, 48 hours practicals

Available for Non-Award Study

Assessment: Written reports & assignments 70%, participation 10%, oral presententation 20%

Topics covered in this course include: reference citation; critical analysis of research publications; writing essays, reports and technical documentation; oral presentation skills; participating in tutorials; formulating questions; exam preparation techniques and familiarisation with assessment procedures.

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

Assumed Knowledge: MATHS1012 or MATHS 1008; Data Structures as in COMP SCI 2004 or 7082 should be studied prior to or concurrently with this course

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

Assumed Knowledge: Mathematics, as in MATHS 1008/1012

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 - 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: 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

Assumed Knowledge: Mathematics as in MATHS 1011/1012, MATHS 1000A/B or MATHS 1008

Assessment: Practical exams and/or written exam, compulsory projects

Program development techniques including basic ideas of correctness and proof; Recursion. Approaches to Problem Solving. Notion of abstract data type, representation of lists, stacks, queues, sets, trees and hash tables. Notions of complexity and analysis; Choosing data structures.

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 1007 or COMP SCI 1009

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 1007 or COMP SCI 1009

Assumed Knowledge: COMP SCI 2004, Mathematics such as in MATHS 1000 A/B or MATHS 1008 or MATHS 1012

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

Assessment: Written exam, compulsory projects and laboratories

Introduction to networks and digital communications with a focus on Internet protocols: Application layer architectures (client/server, peer-to-peer) and protocols (HTTP-web, SMTP-mail, etc), Transport layer operation: (reliable transport, congestion and flow control, UDP, TCP); Network layer operation - (routing, addressing, IPv4 and IPv6), Data Link layer operation (error detection/correction, access control, Ethernet, 802.11, PPP), Layer 2/3 protocols (ATM and MPLS); selected current topics such as: security, multimedia protocols, Quality of Service, mobility, wireless networking, emerging protocols, network management

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

Assumed Knowledge: COMP SCI 2004

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

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.

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 1007 or COMP SCI 1009

Assumed Knowledge: COMP SCI 2000, COMP SCI 200

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 1007 or COMP SCI 1009

Assumed Knowledge: COMP SCI 2004, COMP SCI 3002

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 1007 or COMP SCI 1009

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. 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 1007 or COMP SCI 1009

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 1007 or COMP SCI 1009

Assumed Knowledge: COMP SCI 2000, COMP SCI 2004, COMP SCI 3001; exposure to SQL programming - eg, COMP SCI 2002

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 1007, COMP SCI 1009

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 1007, COMP SCI 1009

Assumed Knowledge: PURE MTH 2000 or 1012, COMP SCI 2005

Assessment: written exam, compulsory projects

Selected topics from: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. Shaders. Animation and particles. Level of detail. Scene graphs and 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

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. Students will undertake a year-long group project.

LEVEL IV

COMP SCI 4000
Software Architecture

3 units - Not offered in 2009

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

13 hours practical work per week

Restriction: 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 2

2 hours lectures, 4 hours practical work per week

Available for Non-Award Study

Assessment: Exams and/or assignments

Over the last 40 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. Various vision problems are considered, including: feature detection in images; image mosaicing; recovery of 3D shape from images; image segmentation; recognising and classifying objects in images; detecting and tracking objects in video; and video surveillance. Vision is a rapidly evolving area of computer science, and new and emerging approaches to these problems are discussed along with more "classical" techniques. Several assignments enable the student to gain practical experience in tackling some of these problems..

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 2

2hours 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 - semester 1

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, 6 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 hours lectures, 48 hours practical

Available for Non-Award Study

Assumed Knowledge: knowledge of database systems equivalent to that taught in Database & 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

6 hours research, 7 hours practical per week

Restriction: Students in specified programs only

Assessment: Performance during project work, written reports, seminar presentations, research thesis

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. Lectures will cover a combination of advanced topics not already covered in earlier courses, together with topics covered in far more depth. Choice of topics will depend on the lecturers and the nature of the project. Examples include: Requirements engineering, Service engineering (covering Web services, Service composition, Service oriented architectures), Reliability and testing, Component-based software engineering and Formal methods

Students undertaking this course are also required to complete a full year Software Engineering Research project as approved by the 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 Maths & Comp.Sciences approved by Head of School - students with 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 2500
Business Finance II

3 units - semester 1 or 2

2 lectures, 1 tutorial, 9 hours self-directed study per week

Assumed Knowledge: ECON 1008 or STATS 1000, ECON 1004 ACCTING 1002 or ACCTING 1005; or equiv

Assessment: Typically participation 10%, assignment 15%, test 10%, online quiz 5%, exam 60%

This course examines firm investment and distribution decisions in the context of a capital market structure and efficiency. Valuation methods are developed for valuing projects and securities. Basic portfolio theory is discussed to develop simple asset pricing models and used for determining the cost of capital for use in investment evaluation. The implications of alternative financing options (debt, equity (retained and new) and leasing) are considered, and elementary capital structure theorems are presented, in relation to which the dividend decisions are analysed. The question of market efficiency is considered, and the implications of this for trading strategies discussed.

CORPFIN 2501
Financial Institutions Management II

3 units - semester 1 or 2

2 hour lecture, 1 hour tutorial per week

Assumed Knowledge: ECON 1008, ECON 1000, ECON 1009

Assessment: Typically group assignments worth 30%, final exam 70%

This course provides an introduction to the management of financial institutions and intermediaries. The course focuses on the importance of ensuring good organizational 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 organizational 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 or 2500, CORPFIN 2008 or 2501

Assumed Knowledge: SACE Stage 2 Mathematical Studies, ACCTING 1002, ECON 2008 or ECON 2508, ECON 2012

Assessment: Assignments, tests, exam, as determined at first lecture

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 and ECON 2008 or ECON 2508 or ECON 2012

Assessment: Tests, exam, assignment, as determined at first lecture

This course is an in-depth study of the funds management theory and practice. Participants will first develop a strong theoretical knowledge of asset pricing, market efficiency and funds management. Students will then be exposed to the managed funds industry and be required to apply their theoretical knowledge to understand the process of developing, managing and evaluating these assets. In addition, students will practically develop an Investment Policy Statement (or a Statement of Advice) for an investor, forecast characteristics of various asset classes in an economy, and be able to create an investment vehicle to satisfy investors' needs. The students will also learn various strategies to manage funds, issues that impact performance, and issues in benchmarking and performance evaluation. Equities, Fixed Income Securities, Commodities, Real Estate, Alternate Funds, Emerging, Developing and Developed markets will be examined in the context of portfolio construction.

CORPFIN 3013
Options, Futures and Risk Management III

4 units - semester 2

2 lectures, 1 tutorial, 8 hours self-directed study per week

Available for Non-Award Study

Prerequisite: CORPFIN 2006 or CORPFIN 2500

Assumed Knowledge: SACE Stage 2 Math. Studies, ECON 2008 or 2508 or 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 or CORPFIN 2500, CORPFIN 2008 or CORPFIN 2501

Assumed Knowledge: SACE Stage 2 Mathematical Studies, ACCTING 1002, ECON 2008 or ECON 2508, ECON 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.

CORPFIN 3500
Corporate Finance Theory III

3 units - semester 2 (Not offered until 2010)

2 lectures, 1 tutorial, 8 hours self-directed study per week

Prerequisite: CORPFIN 2006 or CORPFIN 2500

Assumed Knowledge: SACE Stage 2 Mathematical Studies, ACCTING 1002, ECON 2008 or ECON 2508 or ECON 2012

Assessment: Assignments, tests, exam, as determined at first lecture

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 3501
Portfolio Theory & Management III

3 units - semester 1 (Not offered until 2010)

2 lectures, 1 tutorial, 8 hours self-directed study per week

Prerequisite: CORPFIN 2006 or CORPFIN 2500

Assumed Knowledge: SACE Stage 2 Mathematical Studies and ECON 2008 or ECON 2508 or ECON 2012

Assessment: tests, exam, assignment, as determined at first lecture

Syllabus details to be advised.

CORPFIN 3502
Options, Futures and Risk Management III

3 units - semester 2 (Not offered until 2010)

2 lectures, 1 tutorial, 8 hours self-directed study per week

Available for Non-Award Study

Prerequisite: CORPFIN 2006 or CORPFIN 2500

Assumed Knowledge: SACE Stage 2 Math. Studies, CORPFIN 2006 or 2500, ECON 2008 or 2508 or 2012; discrete & continuous compounding, how financial markets operate, stock & bond price valuation procedures, algebra & simple differentiation

Assessment: exam, assessment as per course outline

Syllabus details to be advised.

CORPFIN 3503
Corporate Investment & Strategy III

3 units - semester 1 (Not offered until 2010)

2 lectures, tutorial, 8 hours self-directed study per week

Prerequisite: CORPFIN 2006 OR CORPFIN 2500

Assumed Knowledge: SACE Stage 2 Mathematical Studies, ACCTING 1002, ECON 2008

Assessment: exam, assignment/test as determined at first class

Syllabus details to be advised.

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/BHOI, 003AHO/BHOD, 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

8 units - full year

7 hours per week including clinical, practical sessions

Restriction: BDS students only

Corequisite: DENT 1001AHO/BHO, 1003AHO/BHO, 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, 1002AHO/BHO, 1004HO/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 pre-requisite knowledge leading to courses taught in subsequent years of the program, and the tools to communicate effectively with other health professionals and scientists.

Topics include: human evolution including evolution of head form, human adaptability, essentials of body chemistry, cell structure and function, tissue histology, heredity and variation, genes and chromosomes, linkage, molecular organisation of chromosomes, genetic structure and variation of human populations, genetic engineering, structure and function of the skeletal and neuromuscular systems, skin and sense organs.

DENT 1004AHO/BHO
General Studies ID

4 units - full year

3 hours per week

Restriction: BDS students only

Corequisite: DENT 1001AHO/BHO, 1002AHO/BHO, 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/BH, DENT 1000HO

Corequisite: DENT 2002AHO/BHO, 2003 AHO/BHO, 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, 2003 AHO/BHO, 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 1003AHO/BHO, DENT 1000HO

Corequisite: DENT 2001AHO/BHO, 2002 AHO/BHO, 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 1004AHO/BHO, DENT 1000HO

Corequisite: DENT 2001AHO/BHO, 2002 AHO/BHO, 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 II, DENT 2000HO

Corequisite: DENT 3002 AHO/BHOI, 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, 2001AHO/BHO, 2003AHO/BHO, DENT 2000HO

Corequisite: DENT 3001AHO/BHOI, 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/BHOD, 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 under-standing 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 pathologic features of various diseases/lesions that may be encountered in the tissues of the oral region; describe the systemic diseases and disorders of the body of relevance to dentists; provide an appreciation of principles of drug administration, distribution, action and elimination; provide instruction on important classes of drugs with emphasis on their modes of administration and action, therapeutic uses, adverse effects and interactions; discuss the role of pharmacology and therapeutics in dental practice; discuss the management of medically compromised patients; provide an overview of surgery including knowledge of metabolic response to injury and shock, bleeding and transfusion and surgical infection; discuss social and community aspects of disease including the burden of illness, inequalities and determinants of health, health promotion, care and policy.

An understanding of the basic principles and clinical and microscopic features of disease is assumed, particularly: developmental disorders, inflammation, basic immunopathology, hyperplasia, neoplasia, degenerative disease, hormonal-metabolic disease, physiology, biochemistry and microbiology.

DENT 4002AHO/BHO
Dental Clinical Practice IV

12 units - full year

28 contact hours per week, including class meetings, laboratory & clinical sessions

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.

HONOURS

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 an 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 2

Up to 3 hours lectures and tutorials per week

Restriction: B.Des.St.students - other students should check their Academic Program Rules re eligibility

Quota will apply

Assessment: assignments, projects

This course will be focusing on one or more of the following aspects relating to the built environment: design exploration, environmental issues, plants, construction, user issues, representation, and digital media. Course description will be provided by the School when specialist teaching is available.

Detailed course description will be provided by the School prior to enrolment.

DESST 1009
Art History and Theories IA

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: 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 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: 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 and tutorials 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

This course will be focusing on one or more of the following aspects relating to the built environment: design exploration, environmental issues, plants, construction, user issues, representation, and digital media. Course description will be provided by the School when specialist teaching is available.

Detailed course description will be provided by the School prior to enrolment.

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 & field activity 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: Assignments, reports, class & tutorial & field activity participation

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 2 hours of lectures & 4 hours 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 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 and tutorials per week

Restriction: B.Des.St.students - other students should check their Academic Program Rules re eligibility

Quota will apply

Assessment: assignments, projects

This course will be focusing on one or more of the following aspects relating to the built environment: design exploration, environmental issues, plants, construction, user issues, representation, and digital media. Course description will be provided by the School when specialist teaching is available.

Detailed course description will be provided by the School prior to enrolment.

DESST 1032
Imaging Our World

3 units - semester 1

Up to 3 hours lectures/tutorials/workshops per week

Restriction: B.Des.St students, B.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.

DESST 1500
Landscape Narratives

3 units - semester 1

Up to 3 hours lectures and tutorials per week

Restriction: B.Des.St.students - other students should check their Academic Program Rules re eligibility

Quota will apply

Assessment: Assignments typically 30%, reading critique (essay) typically 20%, installations typically 2 x 25%

The course concentrates on introducing and equipping students with practical and theoretical skills and knowledge to sensitively design spaces, public and private. It is about 'reading' sites and places, about understanding the meanings and 'narratives' within places, experiencing places, engaging in the cultural discourse about places, and knowing how and where to design for spaces, as well as how to erect upon spaces. The course includes understanding stories/narratives within places whether told by nature or by culture, Indigenous and non Indigenous, Kaurna/Aboriginal place-making cosmological ideas, topography (landform, microclimate, aspect, soils and vegetation), design styles, built structures and the articulation of public spaces. The course includes practical workshops where students construct their own collaborative and individual, site-specific interventions in places.

LEVEL II

DESST 2500
Technology in Design

6 units - semester 1

Up to 6 hours per week including lectures, studios, tutorials

Restriction: Both DESST 2005 & DESST 2034

Quota will apply

Assumed Knowledge: Level I B.Des.St. core courses

Assessment: Typically, assignments (design development stages of major design projects) 50%, final assignments 35%, exercises 10%, quizzes 5%

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 2501
Design Studio

6 units - semester 2

Up to 7 hours a week including lectures and studios

Restriction: DESST 2016, DESST 2023 & DESST 2037

Quota will apply

Assumed Knowledge: Level I B.Des.St. core courses

Assessment: Typically, assignments (design development stages of major design projects) 60%, design exercises 30%, participation, discussion, field trip 10%

This studio course explores contemporary design forms and theories and their origins in the form-making techniques and the design movements, theories, and critiques of the modern era and recent past. Coursework will comprise a series of individual and group studio projects, emphasising experimentation in both abstract and realistic design exercises. These will include multiple shorter exercises and incremental submissions entailing intensive in-studio workshops. Students will work in a variety of 2 and 3 dimensional media, further developing skills in presenting design work with manual/hand and digital drawing and physical modelling. This will explore conventions and innovations in architectural and landscape architectural representation.

DESST 2502
Architecture Histories and Theories

3 units - semester 2

3 hours lectures and tutorials

Restriction: DESST 2016, DESST 2023 & DESST 2037

Quota will apply

Assumed Knowledge: level I B.Des.St. courses

Assessment: Essays typically 50%, tutorial presentations typically 20%, quizzes typically 10%, online discussion boards typically 20%

This course explores the histories and theories of architecture in the Modern era. Formal and theoretical developments since the mid 19th century are placed in a coherent historical framework through which further spatial, social and cultural dimensions of architectural discourse may be better understood. From a global perspective, lectures and readings address the larger story of how Modern (European) ideas and forms came to dominate architectural thinking worldwide by the mid 20th century, and how these have continued to evolve in the light of more recent post-colonial and post-modern critiques and theories that have shaped the globalised world of contemporary architectural design. Through these critical perspectives, the course also addresses issues of cultural and social difference in the modern world, and how these are reflected and responded to in the development of designed environments. The course is lecture and tutorial based. Assessable coursework consists of short written essays, in-class quizzes, and more interactive forms of group work which may include formal debates, seminar presentations and compulsory participation in on-line discussion boards.

DESST 2503
Landscape Architecture Histories and Theories

3 units - semester 2

3 hours a week

Restriction: DESST 2016, DESST 2023 & DESST 2037

Quota will apply

Assumed Knowledge: Level I B.Des.St. core courses

Assessment: Typically, essays 60%, tutorial presentations 30%, quizzes 10%

This course examines the theories and histories of landscape architecture. It focuses on key landscape movements and important designers, theorists and garden makers from the sixteenth century until the present day, including an appreciation of the Australian context. Given the dynamic history of landscape architecture, special emphasis is placed on the transmission of ideas, the diffusion of technologies or the mobility of individuals as a means to understand efforts to shape diverse landscapes. Through a process of accumulative assessment, research and critical analysis of iconic precedents and innovative contemporary practice will be cultivated as a solid basis for students' future design work.

DESST 2504
Art History and Theories IIA

3 units - semester 1

Up to 2 lectures, 1 tutorial hour per week, occasional excursions

Restriction: DESST 1009

Quota will apply

Assessment: Typically 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 2505
Art History and Theories IIB

3 units - semester 2

Up to 2 lectures, 1 tutorial hour per week, occasional excursions

Restriction: DESST 1019

Quota will apply

Assessment: Typically 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 2506
Digital Media II

6 units - semester 2

6 hours contact per week in lectures and tutorials

Restriction: DESST 2008, DESST 2025, DESST 2038

Quota will apply

Assumed Knowledge: DESST 1032 Imaging Our World

Assessment: Typically, digital design assignments, 3 assignments 20% each , final assignment 40%

This course develops knowledge and skills in the use of digital media for communication and design in the visual arts. The specific forms of communication and design are those of digital visualization and presentation. The course augments knowledge and skills developed in prior areas such as of design, architecture, landscape architecture and computer graphics. It focuses on graphic design skills, both 2D and 3D, print and digital media production, visualization and animation.

DESST 2507
Special Topic in Design Studies IIA

3 units - semester 1

3 hours in lectures and tutorials

Quota will apply

Assumed Knowledge: Level I B.Des.St. core courses

Assessment: Typically 40% main project; 40% assignments; 20% participation, field trip, quizzes

This course will be focusing on one or more of the following aspects relating to the built environment: design exploration, environmental issues, plants, construction, user issues, representation, and digital media. Course description will be provided by the School when specialist teaching is available.

Detailes will be provided by the School prior to enrolment.

DESST 2508
Special Topic in Design Studies IIB

3 units - semester 1

3 hours in lectures and tutorials

Quota will apply

Assumed Knowledge: Level I B.Des.St. core courses

Assessment: Typically 40% main project; 40% assignments; 20% participation, field trip, quizzes

This course will be focusing on one or more of the following aspects relating to the built environment: design exploration, environmental issues, plants, construction, user issues, representation, and digital media. Course description will be provided by the School when specialist teaching is available.

Detailed course description will be provided by the School prior to enrolment.

DESST 2509
Special Topic in Design Studies IIC

3 units - semester 1

3 hours in lectures and tutorials

Quota will apply

Assumed Knowledge: Level I B.Des.St. core courses

Assessment: Typically 40% main project; 40% assignments; 20% participation, field trip, quizzes

This course will be focusing on one or more of the following aspects relating to the built environment: design exploration, environmental issues, plants, construction, user issues, representation, and digital media. Course description will be provided by the School when specialist teaching is available.

Detailed course description will be provided by the School prior to enrolment.

DESST 2510
Special Topic in Design Studies IID

3 units - semester 1

3 hours in lectures and tutorials

Quota will apply

Assumed Knowledge: Level I B.Des.St. core courses

Assessment: Typically main project 40%, assignments 40%,participation, field trip, quizzes 20%

This course will be focusing on one or more of the following aspects relating to the built environment: design exploration, environmental issues, plants, construction, user issues, representation, and digital media.

Detailed course description will be provided by the School prior to enrolments.

DESST 2513
Colonial & Contemporary Issues in South Asian Architecture II

3 units - semester 1

3 hours in lectures and tutorials

Restriction: Asian Architecture and Landscapes II/III (1996 only) or DESST 3012 Colonial and Comtemp Issues in Sth. Asian Architecture III

Quota will apply

Assumed Knowledge: Level I B.Des.St. core courses

Assessment: Typically weekly "e-tasks" (200-300 word on-line discussion board submissions) 30% , studio projects (includes short 1,000 word essay components 70%, group work 20%

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.

LEVEL III

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/redevelopment 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 focuses on the analysis and assessment of physical and biological systems in a non-urban context. Students will be required to examine the impact of a medium scale landscape design project on a specific arid/mallee/coastal/wetland or temperate environment in South Australia. Through on-site analysis and assessment, research, mapping, and written and graphic documentation, the course seeks to expand students' knowledge and appreciation of the diversity and sensitivity of 'natural' systems, including geomorphology, hydrology, biospheric conditions, fauna, flora (including taxonomy, performance and maintenance) aquatic and bird life, as well as ecological systems theory and practice generally.

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

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 the breadth of contemporary landscape architectural practice, theories and their application within design projects. The student will explore the diversity of landscape expression and its definition through site analysis and alternative concept development. The student is engaged in a range of design communications from manual/hand and digital drawing through physical modeling, to effective oral and written presentations. The art of criticism is emphasized as the mode of teaching and learning exchange between students, coordinator and guest reviewers.

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

Assumed Knowledge: DESST 1032 Imaging Our World

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.

DESST 3500
Colonial & Contemp Issues in Sth Asian Arch III

3 units - semester 1 (Not offered until 2010)

3 hours in lectures and tutorials

Restriction: Asian Architecture and Landscapes II/III (1996 only) or DESST 3012

Quota will apply

Assumed Knowledge: Level II B.Des.St. core courses

Assessment: Typically weekly "e-tasks" (200-300 word on-line discussion board submissions) 30% , studio projects (includes short 1,000 word essay components 70%, group work 20%

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 3504
Special Topic in Design Studies IIIB

3 units - semester 2 (Not offered until 2010)

3 hours of lectures and tutorials

Quota will apply

Assumed Knowledge: Level II B.Des.St core courses

Assessment: Typically main project 40%; assignments 40%; participation, field trip, quizzes 20%

This course will be focusing on one or more of the following aspects relating to the built environment: design exploration, environmental issues, plants, construction, user issues, representation, and digital media. Course description will be provided by the School when specialist teaching is available.

Detailed course description will be provided by the School prior to enrolment.

DESST 3505
Special Topic in Design Sudies IIIC

3 units - semester 1 (Not offered until 2010)

3 hours of lectures and tutorials

Quota will apply

Assumed Knowledge: Level II B.Des.St. core courses

Assessment: Typically main project 40%; assignments 40%; participation, field trip, quizzes 20%

This course will be focusing on one or more of the following aspects relating to the built environment: design exploration, environmental issues, plants, construction, user issues, representation, and digital media. Course description will be provided by the School when specialist teaching is available. A detailed course description will be provided by the School prior to enrolment.

DESST 3506
Special Topic in Design Studies IIID

3 units - semester 1 (Not offered until 2010)

3 hours of lectures and tutorials

Quota will apply

Assumed Knowledge: Level II B.Des.St. core courses

Assessment: Typically main project 40%; assignments 40%; participation, field trip, quizzes 20%

This course will be focusing on one or more of the following aspects relating to the built environment: design exploration, environmental issues, plants, construction, user issues, representation, and digital media. A detailed course description will be provided by the School prior to enrolment.

DESST 3508
Special Topic in Design Studies IIIF

6 units - semester 2 (Not offered until 2010)

3 hours of lectures and tutorials

Quota will apply

Assumed Knowledge: Level II B.Des.St. core courses

Assessment: Typically main project 40%; assignments 40%; participation, field trip, quizzes 20%

This course will be focusing on one or more of the following aspects relating to the built environment: design exploration, environmental issues, plants, construction, user issues, representation, and digital media. Course description will be provided by the School when specialist teaching is available. A detailed course description will be provided by the School prior to enrolment.

DESST 3509
Digital Media III

6 units - semester 1 (Not offered until 2010)

1 hour lecture and 4 hours tutorial/workshop per week

Restriction: DESST 3005 Special Topic in Design Studies IIIA

Quota will apply

Assumed Knowledge: DESST 1032 Imaging Our World, DESST 2038 Digital Media II

Assessment: Digital design projects and assignments

This course explores narratives and storytelling through the use of 2D animation in short film. Through project work and assignments students will develop scripts, storyboards and short, 2D animated films using industry standard software and techniques, while under the supervision of industry leaders. Students will communicate their work through digital presentations and folios.

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

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 & 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.

ADVANCED LEVEL

DEVT 2100
Poverty and Social Development

3 units - semester 2

3 contact hours per week

Prerequisite: 12 units Level I Humanities/Social Sciences

Incompatible: ANTH 2027

Assessment: Tutorial paper, essay, participation

Among the biggest challenges facing the global community today are the eradication of poverty and inequality, and the needs of social development. This course introduces students to the history of the concept of poverty, the culture of poverty, the causes of poverty and its effects. Intersections between poverty and health, human rights and education will be explored in a variety of international contexts. Policies designed to reduce poverty will be analysed at both the global or international level and from community perspectives. Case studies of poverty assessments and poverty reduction projects

will be a major feature of course content. The course also introduces social development, with emphasis on understanding and planning for socially sensitive development. Global attention to social development, such as the World Bank's plan and the World Summit on social development will be explored.

DEVT 2101
Community, Gender and Critical Development

3 units - semester 1

3 contact hours per week

Prerequisite: 12 units Level I Humanities/Social Sciences

Incompatible: DEVT 2001/3001 and ANTH 2021/3021

Assessment: essays, tutorial papers/participation

This course critically explores some of the ways in which community and gender influence and are transformed by contemporary development policies, processes and programs. Students will evaluate key concepts and frameworks in terms of the anthropology of development and critique international development and planned culture change from modernist, gender-based and poststructuralist perspectives.

The course takes an actor-oriented perspective, grounding applied practices in macro-economic, historical and socio-political contexts of local people's development experiences. It privileges the ways in which development beneficiaries perceive, understand and feel about the imposition of development and culture change and to what extent they can gain knowledge and/or power over this process through the analysis of several community-based case studies. The course also looks at some of the knowledge, skills and attitudes that are needed to seek practical solutions in these settings, exploring various participatory field methods concerned with generating shared information, ensuring community empowerment and participation and in eliciting community/ local views.

CAPSTONE

DEVT 3100
Aid Policy and Administration

3 units - semester 2 (Not offered until 2010)

3 contact hours per week

Prerequisite: 15 units in Development Studies/Anthropology with no more than 6 units at Level I

Assessment: Participation, tutorial presentation/paper, essay

This course examines issues related to aid effectiveness. It begins by examining the scholarly debate over whether aid has been effective in promoting economic growth and poverty reduction in developing countries in recent decades. It then moves on to a discussion of the factors that shape aid effectiveness, focusing on both contextual political economy factors and factors related to the ways in which donors deliver and administer aid. In respect of the latter, the course will examine how the structure of the international aid architecture and different aid modalities shape aid effectiveness. The course will draw extensively on case study material from donor practice.

HONOURS

DEVT 4401A/B
Honours Development Studies

24 units - full year

Prerequisite: UG degree and distinction average in courses contributing to a major in Development Studies, or equivalent approved by Head of Discipline - other candidates may apply to Honours Coordinator

Assessment: 2 x 5,000 word essays, 15,000-20,000 word thesis

Students wishing to take Honours Development Studies should consult the Honours Coordinator prior to commencing Advanced Level studies to ensure that appropriate course choices are made in preparation for Honours.

Honours Development Studies is a full-year program involving weekly seminars, essays and a final dissertation. In some circumstances Honours Development Studies can be studied part-time over two years or can be combined with Honours in another Discipline.

Students are encouraged to complete DEVT 2100 Poverty and Social Development before proceeding to Honours.

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: ECON 1000

Assessment: Typically, 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: ECON 1002

Assessment: Typically tutorial work, essays or papers, final exam

How does the global economy affect Australia and Australians? Lectures 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: ECON 1004

Assessment: Typically a mid semester exam & a 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 (individuals 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

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, Specialist Maths or Math Methods) or equiv.

Assessment: Typically 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 and Economic Statistics I

3 units - summer semester or semester 1 or 2

2 lectures, 1 workshop per week

Restriction: ECON 1008

Available for Non-Award Study

Quota may apply

Incompatible: ECON 1008, STATS 1000 cannot both be counted toward degree

Assessment: Typically tutorials, assignments, tests, final exam

This course is an introduction to statistics designed for students in business, economics and similar disciplines. The emphasis is on understanding the concepts and interpreting the results. Topics covered may include descriptive statistics, correlation and simple regression, probability, point and interval estimation, hypothesis testing, index numbers and time series analysis.

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: Typically 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.

ECON 1010
Introductory Mathematical Economics I

3 units - semester 1

2 Lectures, 1 Tutorial

Available for Non-Award Study

Assessment: Typically exam and test

This course focuses on the mathematical methods and models that are required to understand current economics and to investigate economic models. Topics may include limits, open sets and spaces; univariate and multivariate calculus; matrix algebra and systems of linear equations; and applications in important economic models.

LEVEL II

ECON 2500
International Trade & Investment Policy II

3 units - semester 2

2 lectures, 1 tutorial per week

Available for Non-Award Study

Assumed Knowledge: ECON 1004

Incompatible: ECON 2000

Assessment: tutorial work, essay and final exam

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 2501
Resource & Environmental Economics II

3 units - semester 1

2 lectures, 1 tutorial per week

Available for Non-Award Study

Assumed Knowledge: ECON 1004

Incompatible: ECON 2001

Assessment: project, essay and final exam

This course is designed to demonstrate practical applications of economic analysis to a variety of environmental issues. The course aims to better understand how economics can help resolve environmental problems caused by human activity. The course's overall purpose is to increase understanding of the role of economics in environmental policy making. A variety of local, regional and global issues are examined. The topics explored include: the optimal level of pollution; the extinction of species; the economics of renewable resources (fisheries and forests); the role of taxes, property rights and regulations; the linkages between economic development, sustainable growth, population pressure, and habitat preservation.

ECON 2502
East Asian Economies II

3 units - semester 2

2 lectures, 1 tutorial per week

Available for Non-Award Study

Assumed Knowledge: ECON 1004 or ECON 1000 or any 6 units of Asian Studies courses or equivalent

Incompatible: ECON 2003

Assessment: Typically tutorial work, essay and final exam

The course is designed to introduce students to the economic and political nature and structure of the economies of East Asia. It will examine the mechanisms which shape their economic activity and the role of historical and cultural factors in the development of their economic institutions. The contribution of these institutions to economic growth will also be closely examined.

ECON 2503
Mathematical Economics II

3 units - semester 1

2 lectures; 1 tutorial a week

Restriction: ECON 2005

Available for Non-Award Study

Assumed Knowledge: ECON 1004, ECON 1010 or equivalent

Assessment: Typically exam, test

This course concentrates on the mathematical methods that are required to understand current economics and to investigate economic models. Topics include optimisation with and without constraints; linear models; advanced matrix algebra; integration and functions; and linear differential equations. It is recommended that students intending to proceed to the Honours degree or Master of Economics successfully complete this course.

ECON 2504
Intermediate Econometrics II

3 units - summer semester or semester 1 or 2

2 lectures, 1 tutorial a week

Restriction: Not available to students who have passed ECON 2006

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: Typically tutorial participation, mid-semester test, final exam

This course provides an introduction to the techniques used to analyse data sets in economics, business and finance. It focuses on understanding the methods involved, using statistical software to provide the results and then interpreting and commenting on these results. The course reviews basic statistics, regression and inference, and then introduces multiple regression analysis, which remains the most commonly used statistical technique in econometrics. The remainder of the course considers various practical aspects of linear regression models and may include dummy variables, different functional forms, the consequences of violation of the classical regression assumptions and an introduction to time series methods.

ECON 2506
Intermediate Microeconomics II

3 units - semester 1 or 2

2 Lectures, 1 tutorial per week

Available for Non-Award Study

Prerequisite: ECON 1004

Assumed Knowledge: ECON 1000

Incompatible: ECON 2009

Assessment: Mid semester and 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 2507
Intermediate Macroeconomics II

3 units - semester 1 or 2

2 lectures, 1 tutorial

Available for Non-Award Study

Prerequisite: ECON 1000

Assumed Knowledge: ECON 1004

Incompatible: ECON 2011

Assessment: Mid semester and 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 2508
Financial Economics II

3 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: ECON 2012

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.

ECON 2509
Topics in Microeconomics II

3 units - semester 2

2 lectures, 1 tutorial per week

Available for Non-Award Study

Prerequisite: ECON 2009 or ECON 2506

Assessment: Typically mid-semester exam, assignments, final exam

This course builds on the microeconomic theory studied in Principles of and Intermediate Microeconomics. It provides analysis of choices and actions of economic agents when faced with market failure, uncertainty and asymmetric information. It considers markets for the factors of production and considers the role of government as an institution to maximise welfare. This course provides an essential grounding for further studies in all fields of microeconomics including: public economics, resource and environmental economics, labour economics, strategic thinking, industrial organisation, game theory, and behavioural economics.

ECON 2510
Business & Economic Statistical Theory II

3 units - semester 2

2 lectures, 1 tutorial per week

Available for Non-Award Study

Prerequisite: ECON 2005 or ECON 2503

Assumed Knowledge: ECON 1004, ECON 1005 and ECON 1008

Assessment: Typically tutorial work, mid-semester test, final exam

The purpose of this course is to provide a solid foundation in probability and statistics for use in economics, business and other social sciences. It is primarily intended to prepare students for the further study of econometrics. Economic examples are used but this course aims more to teach the probability and statistics not the economics. Topics to be covered in the course include probability theory, random variable, distributions, expectation, random variable transformations, special distributions, random sample, law of large numbers, central limit theorem, properties of estimators, estimation methods, confidence intervals, hypothesis testing, Bayesian analysis, and nonparametric methods.

LEVEL III

ECON 3500
Resource & Environmental Economics III

3 units - semester 2 (Not offered until 2010)

2 lectures, 1 tutorial per week

Available for Non-Award Study

Assumed Knowledge: ECON 2009 or ECON 2506

Incompatible: ECON 3003

Assessment: Typically 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 3501
Development Economics III

3 units - semester 1 (Not offered until 2010)

2 lectures, 1 tutorial a week

Available for Non-Award Study

Assumed Knowledge: ECON 2011, ECON 2009, ECON 2506 OR ECON 2507

Incompatible: ECON 3006

Assessment: Typically a 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 3502
Topics in Applied Econometrics III

3 units - semester 1 (Not offered until 2010)

2 lectures, 1 tutorial a week

Available for Non-Award Study

Prerequisite: ECON 2006, ECON 2504 or equiv

Incompatible: ECON 3023

Assessment: Typically a mid-semester exam & a 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 3503
Strategic Thinking III

3 units - semester 2 (Not offered until 2010)

2 hour lecture, 1 hour workshop per week

Available for Non-Award Study

Assumed Knowledge: ECON 2005, ECON 2503 or equiv

Incompatible: ECON 3016

Assessment: Typically 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 3504
Labour Economics III

3 units - semester 1 (Not offered until 2010)

2 lectures, 1 tutorial a week

Available for Non-Award Study

Assumed Knowledge: ECON 2009 or ECON 2506

Incompatible: ECON 3017

Assessment: Typically 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 3505
Environmental Economics E III

3 units - semester 2 (Not offered until 2010)

2 lectures, 1 tutorial per week

Restriction: Civil & Env. Engineering students only

Prerequisite: C&ENVENG 3067

Incompatible: ECON 3018

Assessment: Typically 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 3506
International Trade III

3 units - semester 1 (Not offered until 2010)

2 lectures, 1 tutorial per week

Available for Non-Award Study

Assumed Knowledge: ECON 2011, 2009, 2504, 2506

Incompatible: ECON 3021

Assessment: Typically a mid semester test & a 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 3507
Econometric Theory III

3 units - semester 2 (Not offered until 2010)

2 lectures, 1 tutorial a week

Available for Non-Award Study

Prerequisite: Credit standard in ECON 2006 or ECON 2504 equiv

Assumed Knowledge: ECON 2009 or 2506 or 2507 or 2011, MATHS 1011/1012 or MATHS 1013 or ECON 2005 or 2503

Incompatible: ECON 3013

Assessment: Typically 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 3508
Public Economics III

3 units - semester 1 (Not offered until 2010)

2 lectures, 1 tutorial a week

Available for Non-Award Study

Assumed Knowledge: ECON 2009 or ECON 2509

Incompatible: ECON 3024

Assessment: Typically a mid-semester test & a 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 globalisation, networks, the Internet economy. Due attention is given to innovation, transaction costs, antitrust issues, and the non-profit private sector, all of which are essential to understanding the role and tasks of the public sector.

ECON 3509
International Economic History III

3 units - semester 1 (Not offered until 2010)

2 lectures, 1 tutorial per week

Available for Non-Award Study

Assumed Knowledge: ECON 2009 or ECON 2506 and either ECON 2011 or ECON 2507 (one may be taken concurrently)

Incompatible: ECON 3030

Assessment: Typically 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 3510
International Finance III

3 units - semester 2 (Not offered until 2010)

2 lectures, 1 tutorial a week

Available for Non-Award Study

Assumed Knowledge: ECON 2011 or ECON 2506, ECON 2009 or ECON 2507, & ECON 2006 or ECON 2504 or both STATS 2002 & STATS 2003

Incompatible: ECON 3032

Assessment: Typically 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 3511
Money, Banking and Financial Markets III

3 units - semester 1 (Not offered until 2010)

2 lectures, 1 tutorial per week

Assumed Knowledge: ECON 2011or 2507 or 2012 or 2508

Incompatible: ECON 3035

Assessment: Typically a 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).

ECON 3512
Public Finance III

3 units - semester 2 (Not offered until 2010)

2 lectures, 1 tutorial a week

Available for Non-Award Study

Assumed Knowledge: ECON 2009 or ECON 2506

Incompatible: ECON 3037

Assessment: Typically 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.

ECON 3514
Advanced Macroeconomics III

3 units - semester 1 or 2 (Not offered until 2010)

2 lectures, 1 tutorial a week

Available for Non-Award Study

Prerequisite: ECON 2011 or ECON 2507

Incompatible: ECON 3034

Assessment: Typically tutorial work, mid semester exam, final exam

Syllabus details to be advised.

ECON 3515
Time Series Econometrics III

3 units - semester 1 (Not offered until 2010)

2 lectures, 1 tutorial a week

Available for Non-Award Study

Prerequisite: ECON 2006 or ECON 2510

Assessment: Typically tutorial work, mid semester exam, final exam

Recently there has been much interest in developing econometric analyses for problems involving linear and nonlinear time series models. In part this has been motivated by the general scientific interest in stochastic dynamical systems and in part motivated by the advances in computational power which allows complex systems to be more accurately modelled. Examples of these systems include climatic and weather variations in meteorology and environment science, and fluctuating risk in financial derivatives.

Topics include stochastic difference equations; stationary and non-stationary time series; estimation for ARIMA models; model building and forecasting with ARIMA time series; basic ARCH and GARCH models; multivariate time series; and regression analysis of time series with non-linearity and non-stationarity. Applications include time series approximations in pricing securities, risk management and term structure dynamics, estimation of interest rate models and nonparametric pricing derivatives, selection of time series models for detecting climate change, and trend detection in regional and global mean temperature series.

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 2005/2503 or MATHS 1007A/B only with approval of Head of School or nominee

Assessment: paper in each of Econometrics, Microeconomics, Macroeconomics [examined in June], papers in optional courses, [approx] 12000 word thesis

Arrangements are possible for joint honours combining Economics with study in another School. Details are available from the Head of the School or Honours Coordinator

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.

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 Econometrics, 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*:

Economic Development

International Finance

International Trade

Labour Economics

Time Series Econometrics

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 1001
Schools and Policy

3 units - semester 1

3 hours per week

Restriction: Bachelor of Teaching students only

Check with School for Non-Award Study

This course will increase students' understanding of the complexities of educational policy impacting on schools, assist students to become effective leaders who inform, shape and implement educational policy, examine underlying themes of change and implementation challenges, explore the impact of various reform strategies on building teaching capacity, ensuring accountability, delivering adequate resources & improving learning, and explore international perspectives on school reform and change.

EDUC 1002
Primary School Interaction

3 units - semester 2

3 hours per week (or equiv.), including seminars, teaching placement

Restriction: Bachelor of 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 2001
Issues in Contemporary Education

3 units - semester 1

3 hours per week

Restriction: Bachelor of Teaching students only

Check with School for Non-Award Study

Prerequisite: EDUC 1001 and EDUC 1002

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 3002
Secondary School Interaction

3 units - semester 2

3 hours per week (or equiv) including seminars & teaching placement

Restriction: Bachelor of Teaching students only

Prerequisite: EDUC 1001, EDUC 1002

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 4201
Education, Culture & Indigenous Perspectives (UG)

3 units - semester 1

4 hours per week

This course is divided into two modules, both of which are valued at 1.5 units. The first module is entitled 'Culture, Education and Society' and aims to introduce students to theories around the diverse constructions of cultures, identities, and institutions in Australia. This will include an overview of some of the theories which underpin school students' cultural identities and schools, and how these then affect our assumptions about what students know, how they learn and how teachers teach. The module examines theories around race and whiteness, gender, cultural pluralism, hybridity, diasporas and power, and how teachers and schools can operate hegemonically to reinforce social 'norms.' The complexity of cultural identities is highlighted and some strategies that enable the provision of 'inclusive' education to culturally plural groups are suggested.

The second module is entitled 'Indigenous Education.' This module will focus more specifically on theories and ideas that relate to Indigenous Australians. This includes racism, the history and impacts of colonisation, and an overview of ontological perspectives. In addition it will also explore education in contemporary contexts, including health and wellbeing, and social justice. Students will be exposed to pertinent policy issues and debates.

EDUC 4202
Student Learning and Interaction

3 units - semester 1

2 x 1 hour lectures, 2 x 1 hour tutorials per week

Module 1 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.

Module 2 introduces students to the role of ICT in the planning and delivery of curriculum in the classroom and is aimed at ensuring student teachers have the ICT competence required for secondary level education.

Note: Course assumes proficiency in MS Office applications. Free online courses may be found on MyUni - see 'Web-based Microsoft Courses'

EDUC 4203
Curriculum and Assessment of Learning (UG)

3 units - semester 2

3-4 hours per week

This course aims to provide students with an overview of curricula models and frameworks. It examines the theories underlying the design and development of curriculum, the nexus between the understanding of the process involved in the assessment of student learning and to provide them with the knowledge and skills necessary to manage this process are discussed.

Policies and influences that guide assessment practices, the role of assessment in optimising learning outcomes, and the assessment planning process including the purpose of assessment, the role of the student, reliability and validity, and basic skills testing are highlighted. At the end of the topic students will have developed a range of strategies and skills for critically examining curricula issues, constructing meaningful assessment to gauge student learning as well as have an understanding of state and national developments relating to senior secondary assessment, national statements and profiles, and recent assessment materials from ACER and other sources.

EDUC 4204
Families, Schools and Special Needs (UG)

3 units - semester 2

This course has two modules, each worth 1.5 units. The first module, entitled Families, Schools and Student Outcomes, explores the social and cultural context of students' learning. In particular, it examines family and school learning environments, as well as issues of gender, religion and funding as they affect students' learning outcomes at school. The course will culminate in some international perspectives on global education issues.

The second module will be called Education for Special Needs. This module will overview specific types of disability and explore current issues in the education of young people with special needs. It will introduce students to key theoretical and practice approaches to behaviour management and examine general principles of formal and informal assessment techniques. It will then address processes of transition from school to adult life for young people with disabilities.

EDUC 4205
Teaching Practice Part 1 (UG)

3 units - semester 1 or 2

Restriction: B.Teaching & B. MusicEd students only

Prerequisite: At least one Curriculum and Methodology course

Corequisite: At least one Curriculum and Methodology course

Students will undertake one block of supervised teaching practice. Students who successfully complete the course are given a non-graded pass.

EDUC 4206
Teaching Practice Part 2 (UG)

3 units - semester 1 or 2

Restriction: B.Teaching & B. MusicEd students only

Prerequisite: At least one Curriculum and Methodology course

Corequisite: At least one Curriculum and Methodology course

Students will undertake one block of supervised teaching practice. Students who successfully complete the course are given a non-graded pass.

EDUC 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 will explore life-long, life-wide and continuing learning in formal, informal and non-formal contexts. It will also investigate curriculum design and teaching methodology issues applicable for programs for adult learners, and include discussion of effective and appropriate strategies and techniques for assessment and evaluation of learning processes.

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 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 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 studies

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 to 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 Language Methodology

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 a 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 and Methodology (UG)

2 units - full year

Restriction: Bachelor of Teaching only

Prerequisite: UG linguistics courses or Uni of Adelaide TESOL Cert IV

Corequisite: EDUC 4339

Assumed Knowledge: High level of English literacy competency - Linguistics study must have been in English

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

Restriction: 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 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 6 semesters of history - in certain circumstances students with only 4 semesters may be accepted

Corequisite: EDUC 4334 Studies of Society and Environment

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 Curric & 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: essay, unit of work, online tasks, designing pracs & investigations

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. Course content strongly reflects the curricular emphasis of DECS, and 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

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 Curriculum & 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 four 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

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.

Engineering

LEVEL I

C&ENVENG 1008
Engineering Planning and Design IA

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 IA

3 units - semester 2

48 hours lectures, tutorials and design practicals

Available for Non-Award Study

Prerequisite: C&ENVENG 1010 Eng Mech - Statics,

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 - summer semester or 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.

Part of the course will be devoted to framing and solving unstructured problems by discussing a variety of puzzles. Such educational puzzles are used to illustrate basic concepts of critical thinking, mathematics, and problem-solving.

C&ENVENG 1011
Introduction to Mining Engineering IA

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, exam

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. Site visits to working mines during mid-tern break will also be included.

Part of the course will be devoted to framing and solving unstructured problems by discussing a variety of puzzles. Such educational puzzles are used to illustrate basic concepts of critical thinking, mathematics, and problem-solving.

C&ENVENG 1012
Engineering, Modelling and Analysis IA

3 units - semester 2

48 hours lectures, tutorials and 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; 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 Mathematical 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 $s); 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 Mathematics, 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 1009
Electrical & Electronic Engineering IA

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 IB

3 units - semester 1 or 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 1006
Design Graphics and Communication

3 units - semester 2

48 hours of lectures and tutorials

Available for Non-Award Study

Assessment: continuous assessment, final exam - further 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 - summer semester or semester 2

48 hours lectures and tutorials

Available for Non-Award Study

Assumed Knowledge: SACE Stage 2 Math.Studies, Specialists 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 1100
Introduction to Mechanical Engineering

3 units - semester 1

45 hours lectures and practicals

Available for Non-Award Study

Assessment: Assignments, final exam

This introductory course is made up of three parts. The first part is a series of lectures designed to introduce the discipline of mechanical engineering. The second part consists of a series of lectures on an exciting learning experience called puzzle based learning, in which puzzles are used to demonstrate important physical and mathematical concepts. The third part is an introduction to computer programming using the C language and MatLab.

MECH ENG 1101
Introduction to Automotive Engineering

3 units - semester 1

45 hours lectures and practicals

Available for Non-Award Study

Assessment: Assignments, final exam

This introductory course is made up of three parts. The first part is a series of lectures designed to introduce the discipline of automotive engineering. The second part consists of a series of lectures on an exciting learning experience called puzzle based learning, in which puzzles are used to demonstrate important physical and mathematical concepts. The third part is an introduction to computer programming using the C language and MatLab.

MECH ENG 1102
Introduction to Aerospace Engineering

3 units - semester 1

45 hours lectures and practicals

Available for Non-Award Study

Assessment: Assignments, final exam

This introductory course is made up of three parts. The first part is a series of lectures designed to introduce the discipline of aerospace engineering. The second part consists of a series of lectures on an exciting learning experience called puzzle based learning, in which puzzles are used to demonstrate important physical and mathematical concepts. The third part is an introduction to computer programming using the C language and MatLab.

MECH ENG 1103
Introduction to Mechatronic Engineering

3 units - semester 1

45 hours lectures and practicals

Available for Non-Award Study

Assessment: Assignments, final exam

This introductory course is made up of three parts. The first part is a series of lectures designed to introduce the discipline of mechatronics engineering. The second part consists of a series of lectures on an exciting learning experience called puzzle based learning, in which puzzles are used to demonstrate important physical and mathematical concepts. The third part is an introduction to computer programming using the C language and MatLab.

MECH ENG 1104
Introduction to Sports Engineering

3 units - semester 1

45 hours lectures and practicals

Available for Non-Award Study

Assessment: Assignments, final exam

This introductory course is made up of three parts. The first part is a series of lectures designed to introduce the discipline of sports engineering. The second part consists of a series of lectures on an exciting learning experience called puzzle based learning, in which puzzles are used to demonstrate important physical and mathematical

concepts. The third part is an introduction to computer programming using the C language and MatLab.

MECH ENG 1105I
ntroduction to Sustainable Energy Engineering

3 units - semester 1

45 hours lectures and practicals

Available for Non-Award Study

Assessment: Assignments, final exam

This introductory course is made up of three parts. The first part is a series of lectures designed to introduce the discipline of sustainable engineering. The second part consists of a series of lectures on an exciting learning experience called puzzle based learning, in which puzzles are used to demonstrate important physical and mathematical concepts. The third part is an introduction to computer programming using the C language and MatLab.

PETROENG 1005
Introduction to Petroleum Geosciences & the Oil Industry

3 units - semester 1

36 hrs lectures, 24 hrs prac work and o'night field camp

Available for Non-Award Study

Assumed Knowledge: SACE stage 2 Maths Studies, Specialist Maths, Physics

Assessment: Selected prac exercises, Field camp report, theory exam

This course provides an introduction to geology (first half of the semester) and an introduction to the petroleum geosciences (second half of the semester). No prior knowledge in geology is assumed and the course starts from basic geological concepts (e.g. minerals, igneous rocks, sedimentary rocks, metamorphic rocks, rock deformation and geological time) then works onto the petroleum system (e.g. source rocks, reservoir rocks, sealing rocks, maturation, migration and trapping of hydrocarbons) and finally introduces the tools used in petroleum exploration (seismic surveying, drilling and logging). Throughout the semester one lecture per week is also given by a guest speaker from different sectors of the oil industry in order to provide an overview of the oil industry.

PETROENG 1006
Introduction to Petroleum Engineering

3 units - semester 2

24 hours lectures, 24 hours tutorials, 12 hours puzzle-based learning

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 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, petroleum exploration, drilling, completion and production, reservoir mechanics, fundamentals of rock and fluid properties, composition and PVT properties of petroleum fluids; basic physical and chemical properties of petroleum reservoir fluids related to reservoir processes and production:and petroleum engineering environment

LEVEL II

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

Prerequisite: 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 2067
Construction, Management & Surveying

3 units - semester 2

24 hours lectures, 7 hours tutorials, practicals and site visits

Available for Non-Award Study

Incompatible: Cannot be presented with C&ENVENG 2015

Assessment: Exam 60%, coursework 40%

The aim of this course is to introduce students to the practical aspects of the construction industry. In particular, this will involve: Engineering construction terminology; Common construction methods and processes; Project organisation and management; Contracts and specifications; Elementary surveying principles; and Familiarisation with selected surveying equipment. Topics include: Overview of the construction and engineering industries; Contracts, specifications and tendering; Occupational health safety and welfare, Industrial relations; Project management, scheduling, quality assurance, environmental aspects of construction, engineering ethics; Civil construction - earthworks, embankments, foundations, retaining structures, pavements and tunnels; Construction using concrete, steel, timber and masonry; Residential construction; Construction of bridges, dams, tunnels, skyscrapers and domes; Introduction to civil engineering surveying incorporating: Linear measurement; Levelling; Theodolite; Horizontal and vertical curves.

C&ENVENG 2068
Environmental Engineering & Sustainability II

3 units - semester 1

48 hrs lectures, tutorials, design sessions and private study

Available for Non-Award Study

Assumed Knowledge: C&ENVENG 1000, C&ENVENG 1002

Incompatible: Cannot be presented with C&ENVENG 2026

Assessment: Tests, assignment/projects - details provided at start of course

This course explores the relationship between engineers and one of our most valuable natural resources - river systems. The themes covered include the value of river systems, the modifications that have been made to river systems as a result of engineering activities, some of the negative impacts this has had, and continues to have, on our natural resources, as well as the role engineering plays in rehabilitating and managing these resources and ensuring the mistakes of the past will not be repeated by adopting sustainable planning and design practices. Specific topics might include: River Modification and Rehabilitation, Water Quality Parameters, Water Quality Modelling, Fish Passage, Environmental Flows, Erosion Control, Social Impact, Sustainable Design and Environmental Decision-Making. The course features a design project on river restoration and rehabilitation, as well as the multi award-winning Mekong e-Sim, which is a roleplay/simulation centred on development issues in the Mekong River in south-east Asia.

C&ENVENG 2069
Geotechnical Engineering IIA

3 units - semester 2

32 hours lectures, 10 hours tutorials, 6 hours practicals

Assumed Knowledge: C&ENVENG 1010, MATHS 1011, MATHS 1012

Incompatible: Cannot be presented with C&ENVENG 2006

Assessment: Exams 70%, coursework 30%

The course provides an understanding of: the nature of soils and their variability; and the state and behaviour of a soil. Topics include: The origin and composition of Soils: Introduction to geotechnical engineering, processes that form soils, clay mineralogy; Phase relationships, Atterberg Limits and Soil classification: Soil state definitions, phase relationships, grain size analyses, Atterberg limits, soil classification and description; Vertical Stress in Soils: Soil suction, total vertical stress, pore water pressure, effective vertical stress; Flow of water through soils: Water flow, permeability, 2D seepage and measurement; Consolidation: Introduction to consolidation theory, oedometer test, overconsolidation ratio, consolidation settlement, time rate effects, sand drains; Strength of soils: Shear strength of sands and clays, Mohr-Coulomb failure criterion, direct shear test, triaxial test, stress paths, Skempton's pore pressure parameters; Soil Improvement: Compaction - concepts, measurement and field techniques, Overview of other soil improvement techniques; Stability of slopes: Landslides, Taylor's charts, Bishop's method of slices.

C&ENVENG 2070
Engineering Modelling and Analysis IIA

3 units - semester 2

24 hours lectures, 12 hours tutorials, 12 hours practicals

Assumed Knowledge: C&ENVENG 1012

Incompatible: Cannot be presented with C&ENVENG 2014 Engineering Modelling and Analysis II

Assessment: Theory and practical assignments in the CAT suite

This course covers a range of practical engineering modelling and analysis methods that engineers use to solve real world and complex problems. The components include (but are not restricted to): Ordinary differential equations; Basic probability concepts and probabilistic analysis; Jointly distributed random variables; Common probability distributions including normal, log-normal, gamma, extreme value distributions; Empirical determination of distributions; Parameter estimation; Regression and correlation analysis; Monte Carlo simulation; Auto-correlation, cross-correlation, multiple regression; Markov processes; random number generation; Fourier transform spectral methods; Finite difference methods.

C&ENVENG 2071
Water Engineering IIA

3 units - semester 1

28 hours lectures, 8 hours tutorials, 6 hours practicals, 6 hrs design

Available for Non-Award Study

Assumed Knowledge: C&ENVENG 1001, MATHS 1012 or 1014

Incompatible: Cannot be presented with C&ENVENG 2033 or 2035

Assessment: Exam 60%, assignments & quizzes 15%, laboratories 10%, design 15%

An introduction to hydraulic engineering and fluid mechanics. 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 flow of liquid and gases in closed conduits; flow of real fluids; friction in open and clased conduits, 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. Uniform and non-uniform flow in open channels, super and subcritical flows; hydraulic structures and dissipator design; flow measurement techniques; computation of water surface profiles in open channel flow.

C&ENVENG 2072
Structural Engineering Design

3 units - semester 2

36 hours lectures, 12 hours tutorials

Available for Non-Award Study

Assumed Knowledge: C&ENVENG 1010, C&ENVENG 2025

Incompatible: Cannot be presented with C&ENVENG 2032

Assessment: May include assignments and/or exam or quizzes - details at start of course

Iterative nature of the design procedure developed through a truss design, construct and test project, and the preliminary design of a reinforced concrete frame. Topics covered include: limit states; gravity and wind

loads; fundamental principles that govern the behaviour of reinforced concrete and steel structures; buckling of slender members and effective lengths; connections for steel members.

CHEM ENG 2009
Principals of Pharmaceutical Engineering

2 units - semester 2

Available for Non-Award Study

Principles for separation operations to recover products from biological processes & natural resources will be developed - membrane filtration, chromatography, centrifugation, cell disruption, aqueous two-phase extraction, etc. Brief introduction to process design emphasising unique requirements of pharmaceutical plants (e.g. high purity, specialized utility systems, etc.) will be included.

CHEM ENG 2010
Introduction to Process Simulation

3 units - semester 1

24 hrs lectures, 21 hrs tutorials

Restriction: Students in specified programs only

Available for Non-Award Study

Assumed Knowledge: CHEM ENG 1007, MATHS 1012

Assessment: assignments, final exam

To introduce students to the principles of material and energy balances and the techniques used in chemical process calculations; To develop systematic problem solving skills so as to be able to deal with the complexity of large problems; To provide basic instruction in application of knowledge learned to industrial process design.

CHEM ENG 2011
Chemical Engineering Thermodynamics

3 units - semester 2

30 hrs lectures, 15 hrs tutorials

Available for Non-Award Study

Assumed Knowledge: MATHS 1012, CHEM ENG 1008, CHEM ENG 1007, CHEM 1200,Chemistry II/IIA

Incompatible: Cannot be presented with CHEM ENG 2000

Assessment: Exam 80%, tutorials and tests 20%

To provide students with the fundamental concepts and principles of modern chemical engineering thermodynamics with an emphasis on relevance to other parts of the chemical engineering curriculum. The application of these principles to the solution of energy flow and equilibrium problems will be emphasised.

CHEM ENG 2012
Principles of Pharmaceutical Engineering

3 units - semester 1 or 2

36 hrs lectures, 12 hrs 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 1006

Assumed Knowledge: CHEM ENG 1007

Assessment: Exams and assignments

This course provides an overview of the pharmaceutical industry, including basic information about drug discovery and development, FDA requirements and approval processes, and the role of key operational units in drug manufacturing processes. The principles for separation operations to recover products from biological processes & natural resources will be covered, including cell disruption, centrifugation, membrane filtration, chromatography, aqueous two-phase extraction, etc. Brief introduction to process design emphasizing unique requirements of pharmaceutical plants (e.g. high purity, specialized utility systems, etc.) will be included.

CHEM ENG 2013
Process Modelling and Computations

3 units - semester 1 or 2

30 hrs lectures, 15 hrs tutorials

Available for Non-Award Study

Assumed Knowledge: CHEM ENG 1007, CHEM ENG 1008

Problem solving in Chemical & Biochemical Engineering, introduction to commonly used software packages - Matlab, Excel, HYSYS & Polymath, simple chemical process models - heat exchange, flash systems, CSTRs (tank CSTRs, Thermodynamic models, heat exchange, mass transfer, phase equilibria, biochemical engineering, design & preliminary economic analysis.

CHEM ENG 2014
Process Engineering IIA

3 units - semester 1

24 hrs lectures, 21 hrs tutorials

Available for Non-Award Study

Assumed Knowledge: MATHS 1012

Assessment: Exam 80%, Tutorials 20%

The objective of the course is to introduce students to the basic concepts of heat and mass transfer encountered in chemical process industries. At the conclusion of the course, students should be able to: Understand the basic concepts and laws of the three modes of heat transfer; Apply analytical techniques in conduction heat-transfer problems; Understand and use empirical equations to solve forced and natural convection heat-transfer problems; Solve simple radiation heat transfer problems; Analyse the heat transfer processes involved in boiling and condensation; Perform basic calculations of common heat exchangers to determine relevant design parameters; Solve simple diffusion mass transfer problems; Understand the workings of relevant instrumentation

CHEM ENG 2015
Principles of Biotechnology II

3 units - semester 2

36 hrs lectures, 12 hrs tutorials

Available for Non-Award Study

Assumed Knowledge: CHEM 1000A/B, GENETICS 1000A/B

Assessment: Final exam, lectures, projects, tutorials

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 geonomics. Mammalian Systems - characteristics and growth, gene transfer invitro & invitro, expression systems, applications.

CHEM ENG 2016
Professional Practice II

3 units - semester 2

30 hrs workshop, 12 hrs tutorials, 3 hrs practical

Available for Non-Award Study

Assumed Knowledge: CHEM ENG 1010, CHEM ENG 1007

Assessment: Projects, class assessment, assignments

Excellent practical skills and the ability to communicate effectively to a wide range of audiences are amongst the most important attributes of professional engineers. In this course students will undertake a series of workshops and laboratory sessions to enhance and develop these important skills with an emphasis on the professional practice of chemical engineering.

CHEM ENG 2017
Transport Processes in the Environment

3 units - semester 1

24 hrs lectures, 21 hrs tutorials

Available for Non-Award Study

Assessment: Final exam 80%, tutorials 20%

The objective of this course is to illustrate the application of certain key principles of engineering and science that are required for any quantitative treatment of environmental problems. Topics to be covered in this course include: Introduction and basic concepts; Simple kinetic models, Environmental chemicals and properties; Inter-media transport; Simple exchange models; Air pollution problems; Water chemistry, Environmental modeling; Plume dispersion; Greenhouse effect; Ozone depletion; Nuclear chemistry; Radiation and Uranium mining.

CHEM ENG 2018
Process Engineering IIB

3 units - semester 2

24 hrs lectures, 18 hrs tutorials, 3 hrs practicals

Available for Non-Award Study

Assumed Knowledge: MATHS 1012, CHEM ENG 1000

Lectures and tutorials focused on the statics and dynamics of fluids. Substantial emphasis is placed on analysis and solutions of fluid flow problems frequently encountered in the process industries.

ELEC ENG 2007
Signals and Systems II

3 units - semester 2

45 hours lectures, tutorials, Matlab practicals

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

Continuous signals and systems: block diagrams, linearity, causality, stability and time-invariance, linear time-invariant (LTI) systems, impulse response; convolution sum & integral; convolution & correlation. Fourier techniques in signals and systems: Fourier series and transform of signals, frequency response of continuous time LTI circuits and systems, Fourier transforms and continuous spectra, applications, correlation and power spectrum. Communication Signals and Systems Introduction: signal and carrier; bandwidth and spectrum allocation; modulation schemes: AM, FM and PM; transmitters and receivers : filters, down- and up-conversion, mixers; modulators and demodulators. Analogue Filters: filters and filtering; analog filter design; low pass prototypes (Butterworth, Chebyshev, All Pass, Elliptic); filter design and transformations - (low, high, band); realisation of passive filter circuits; scattering parameters, lumped LC circuits, admittance parameters; active filters 1st and 2nd order transfer functions.

ELEC ENG 2008
Electronics II

3 units - summer semester or semester 1

45 hours 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

Assumed Knowledge: ELEC ENG 1006

Assessment: Assignments, written exam

Devices and Basic Circuits. Diodes: ideal, characteristics, operation, analysis, small-signal model and application, reverse breakdown (Zener), rectifier. BJTs: structure, operation, npn/pnp, graphical characteristics, DC analysis, amplifiers, small-signal model, graphical analysis, biasing, single-stage amplifiers. FETs: structure, operation, I-V characteristics, enhancement/depletion, biasing, single-stage amplifiers. Analog Circuits: BJT differential pair, small-signal analysis, non-ideal behaviour, biasing, current mirrors, differential and multi-stage amplifiers, output

stages classification (A, B, AB) biasing. Altium: application to rectifier, BJT, FET, inverter analysis. Intro. to Digital Circuits: electronics in digital circuits, FET inverter : linear and non-linear transfer function, slew-rate, delay time, fan-out, extension to more complex digital gates

ELEC ENG 2009
Engineering Electromagnetics

3 units - semester 2

45 hours 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

Assumed Knowledge: ELEC ENG 1006, APP MTH 2002, PHYSICS 1100/1200

Assessment: assignments, written exam

Statics: electrostatics (Coulomb/Gauss laws, electric scalar etc); magnetostatics (fields in vacuum, magnetic material, circuits). Electromagnetic Induction: time-varying electromagnetic fields, machines and transformers (DC gen/motor, ideal transformer, 3ph induction motor). Maxwell's Equations and Electromagnetic Waves: Maxwell's equations, transmission lines, skin effect, uniform plane waves, reflection and refraction.Practical Aspects: antennas (transmit/receive, dipole, directivity) and applications (attenuation, propagation).

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.

ELEC ENG 2011
Circuit Analysis

3 units - semester 1

45 hours 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

Prerequisite: ELEC ENG 1009, ELEC ENG 1010

Assessment: On-line tests, quizzes, practicals, final exam

Circuit Fundamentals. Revision of circuit elements and analysis methods including symbols, passive/active conventions, dependent and independent sources, KVL, KCL, mesh/nodal. Operational Amplifiers. Analysis of ideal amplifier for inverting, non-inverting, voltage follower configurations. Non-ideal effects: finite gain, bandwidth, slew rate and DC offsets. Time-Domain Techniques. Capacitors and inductors : energy storage, integration/differentiation of voltage and current, differential equations and numerical simulation. Altium introduction. First-order RC and RL circuits: transient response, time-constant, calculation of response using initial/final values and time-constant. Second-order RLC circuits: overview of analytical solution, effect of damping and natural frequency on time response. Frequency-Domain Techniques. Phasors: phasor quantities, complex impedance, AC steady-state circuit analysis (lagging and leading). Laplace Transforms: uni- and bi-lateral transform, transfer functions, partial fractions for simple/repeated poles, initial/final value theorem. Bode plots: transfer functions, poles and zeros, drawing first and second-order functions. RLC filter types: low, high, band-pass.

ELEC ENG 2012
Sustainable Energy Project

2 lectures, 120 hours practical work

Restriction: Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Assumed Knowledge: ELEC ENG 1009, ELEC ENG 1010

Assessment: Project work performance, Written report, Seminar presentation

This course aims to utilise standard electrical engineering calculations and preliminary electrical design knowledge for renewable energy systems. After some preliminary lectures, the students will participate in engineering design projects which will involve modeling, simulation and testing of a selected renewable energy source and associated control circuit topologies. The students will work in groups and gain an depth understanding of practical issues related to renewable energy systems. They will perform a technical review of the concept covered in their project, and will produce a technical report including design approach, results and conclusions. There will also be opportunity to present their work to their peers. The course assessment will be primarily based on the overall project performance as well as the technical report and presentation skills.

ELEC ENG 2013
Electric Energy Systems E

3 units - Not available in 2009

42 hrs 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

Assumed Knowledge: ELEC ENG 1009

Assessment: Written exams, quizzes, experiments

Electric energy systems overview: generation, transmission, distribution and usage of electric energy. Transformers and electrical machines. Modelling and

analysis of electric energy systems: AC phasors and complex impedance; complex power; power-factor correction; parameter measurement; three-phase circuit analysis; and equivalent circuit concept. Electromagnetics : magnetic quantities and properties; BH curves, magnetic circuits; permanent magnets, magnetic saturation; leakage and fringing; and iron losses. Transformers : ideal transformer operation; referred impedances; transformer ratings, equivalent circuit, parameters, losses, testing and analysis; voltage regulation; special transformers. DC Machines: revision of DC motor concepts and analysis of DC generators.Induction Machines: three-phase windings and rotating magnetic fields; principles and construction; idealized torque vs. speed characteristic; slip and slip frequency; induction machine equivalent circuit, parameters, power flow, analysis and testing; performance characteristics; rotor types; variable-speed operation; wound-rotor slip energy recovery; and single-phase machines. Synchronous Machines: principles and construction; per-unit analysis; round-rotor machine equivalent circuit, parameters, rotor angle, testing and analysis; salient-pole machine phasor diagram, d-q axes, slip test, torque expression, steady-state and dynamic analysis. Synchronous motors: brushless AC and DC motor drives and control. Electric Power Systems: transmission line modeling including equivalent circuit, transposition, surge impedance loading; control of voltage, power and frequency.

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 1007, C&ENVENG 1010

Assessment: assignments, quizzes, finite element labs, laboratory experiments, exam

Concept of stress and strain, characterisation of stress-strain curves and failure of metals, plastics and wood, Hooke's law in tension/compression and shear, axially loaded members, Saint-Venant's principle, non-linear deformation, 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, energy methods, elementary theories of plasticity and failure, intro to design of columns, shafts, pressure vessels, welded joints, fasteners and springs and Finite Element Analysis.

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 1009

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 2019
Dynamics and Control I

3 units - semester 2

45 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 1007, APP MTH 2201, ELEC ENG 1009

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 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

Assumed Knowledge: CHEM ENG 1009

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, C&ENVENG 1010, MECH ENG 1007

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.

MECH ENG 2100
Design Practice

3 units - semester 1

22 hours lectures, 30 hours practicals

Available for Non-Award Study

Assumed Knowledge: MATHS 1012, C&ENVENG 1001 or 1010, MECH ENG 1000 or 1007

Incompatible: May not be presented with MECH ENG 2018

Assessment: Assignments, reports, 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

MECH ENG 2101
Mechatronics 1M

3 units - semester 2

45 hours lectures, 6 hours practicals, 40 hours workshop practice (mid-year break)

Available for Non-Award Study

Assumed Knowledge: ELEC ENG 1008 or 1009, MECH ENG 1007 & 2021

Incompatible: May not be presented with MECH ENG 2004 or 2011

Assessment: Assignments, in-class quizzes, final exam, laboratory experiments

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. In the 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 2102
Sports Engineering 1

3 units - semester 2

48 hours Lectures, 6 hours practicals

Available for Non-Award Study

Assessment: Assignments, final exam

Students will be introduced to concepts underlying the discipline of Sports Engineering. Bio-mechanics will be introduced and concepts that are relevant to sports engineering will be discussed in depth. Instrumentation used for observing and evaluating the muscular skeletal loads on sports people in action will be introduced. The basics of human movement and functional anatomy, focussing on aspects of the muscular skeletal system important to sports engineering, will be discussed.

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, 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

The course covers applications of sedimentology and stratigraphy to petroleum exploration and development. It includes details of depositional environments and diagenesis; lithostratigraphic and sequence stratigraphic methods of correlation, seismic stratigraphy and basic 3D reservoir modelling techniques. The class would undertake two field trips. It is an essential introduction to those wishing to become petroleum engineers

PETROENG 2009
Formation Evaluation, Petrophysics & Rock Props

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: in-class assignments, take home tasks, quiz, final assessment test in-class

The purpose of this theoretical and practical course is to introduce petrophysical and transport properties of rocks, methods of their determination in lab from cores and in oilfields from wireline logging.

This course gives abilities to determine main rock properties in lab and practical understanding of the interpretation of wire line tools and techniques, open and cased hole log analysis methods for the determination of lithology, porosity, fluid content and movement, and net pay. Both, qualitative (quick look) and quantitative analyses methods are covered. Practical examples are used throughout and case histories are used to demonstrate specific aspects. Several laboratory works are performed for coring with determination of rock properties.

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&ENVENG 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&ENVENG 2032, 2034, 2025 & 3001

Assessment: may include assignments and/or exam or quizzes - details at beginning of semester

Detailed design for multi-storey reinforced concrete structures including beams, slab systems and columns. Students will undertake substantial design projects to apply lecture material.

C&ENVENG 3007
Structural Design III (Steel)

3 units - semester 1

48 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&ENVENG 2032, 2034, 2025 & 3001

Assessment: may include assignments and/or exam or quizzes - details at beginning of semester

Detailed design procedures for multi-storey steel and composite structures including composite slabs, steel beams, composite beams and steel columns. Students will undertake substantial design projects to apply lecture material.

C&ENVENG 3008
Engineering Modelling and Analysis III

2 units - semester 2

32 hours 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&ENVENG 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&ENVENG 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&ENVENG 2033, C&ENVENG 2035

Assessment: exam, assignments

Water treatment processes, environmental geotechnics, groundwater processes and contamination. In addition students will carry out an environmental design.

C&ENVENG 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&ENVENG 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&ENVENG 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&ENVENG 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&ENVENG 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&ENVENG 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&ENVENG 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&ENVENG 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.

C&ENVENG 3068
Mine Ventilation

3 units - semester 2

24 hours lectures, 12 hours tutorials, 12 hours practicals

Available for Non-Award Study

Assumed Knowledge: C&ENVENG 1011, C&ENVENG 2071

Assessment: Exams and assignments

Subsurface environment in underground mining operations; hazard and risk; mine dust, gases, fires and radiation; health and safety issues; ventilation circuit design and analysis; ventilation surveying and monitoring.

C&ENVENG 3069
Rock Breakage & Mine Development

3 units - semester 2

24 hours lectures, 12 hours tutorials, 12 hours practicals

Available for Non-Award Study

Assumed Knowledge: C&ENVENG 1011, 3071 & 3072

Assessment: Exam and assignments

Introduction to rock fragmentation theory and blasting theory; types of drillings, drilling equipment and drilling system selection; types of explosives and their selections; detonating devices and their applications; pattern design for drilling and blasting.

C&ENVENG 3070
Resource Estimation and Project Evaluation

3 units - semester 1

24 hours lectures, 12 hours tutorials, 12 hours practicals

Available for Non-Award Study

Assumed Knowledge: C&ENVENG 1011, MATHS 2201, GEOLOGY 2009

Assessment: Exams and assignments

Traditional and geostatistical estimation; spatial variability; reporting of resources and reserves; time value of money; criteria for rating investment projects; sensitivity analysis and risk analysis.

C&ENVENG 3071
Mining Systems

3 units - semester 1

24 hours lectures, 6 hours tutorial, 18 hours practical

Available for Non-Award Study

Assumed Knowledge: C&ENVENG 1011

Assessment: Exams and assignments

Surface and underground mining methods; rock breakage system; transportation system; rock support system; ventilation system; dewatering system; surface infrastructure.

C&ENVENG 3072
Mining Geomechanics

3 units - semester 1

24 hrs lectures, 12 hrs tutorials, 12 hrs practicals

Available for Non-Award Study

Assumed Knowledge: C&ENVENG 1010, GEOLOGY 1104, C&ENVENG 2025

Assessment: Exams and assignments

Stress and strain analysis, rock strength and failure criteria, rock mass properties and classification; stress analysis for rock excavations; introduction to numerical methods.

C&ENVENG 3073
Mine Planning

3 units - semester 2

24 hrs lectures, 6 hrs tutorials, 18 hrs practicals

Available for Non-Award Study

Assumed Knowledge: C&ENVENG 1011, 3070, & 3071

Assessment: Exams and assignments

Surface and underground mine design; production scheduling; equipment selection; project management; cost estimation; environmental design; feasibility study.

C&ENVENG 3074
Special Topics in Mining Engineering

3 units - semester 1 or 2

24 hrs lectures, 14 hrs tutorials, 10 hrs practicals

Available for Non-Award Study

Assessment: To be advised at beginning of semester

Special Topics in Mining Engineering.

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 III

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, 3017, 3018 & 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 Chemical Process Principles II

Assessment: assignments, exam

Stage-wise and continuous contact processes; single and multi-stage operation; use of reflux; analysis and design. Processes considered include: liquid-liquid extractions, leaching, stripping, gas absorption, and distillation.

CHEM ENG 3006
Transport Phenomena

2 units - semester 2

36 hours lectures, tutorials

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 3007
WT Winery Engineering III

3 units - semester 1

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 2001

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 2104, 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.

CHEM ENG 3019
Pharmaceutical Plant Design & Process Engineering

3 units - semester 2

24 hrs lectures, 12 hrs tutorials, 3 hrs practical

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 1007, CHEM ENG 2000, CHEM ENG 2002

Assessment: Project report and Exam

Principles of process engineering and plant design for pharmaceutical engineering products. An introductory design project is solved using computer-aided process design techniques. Parallels the conventional chem. eng subject but tailored to be specific to pharmaceutical processes; costing of unit operations, design heuristics, process simulation theory & applications; software surveys.

CHEM ENG 3020A/B
Pharmaceutical Engineering Project & Experimental Design III

6 units - full year

10 hrs lectures, 44 hrs practicals

Available for Non-Award Study

Prerequisite: Student must enrol in CHEM ENG 3020A in a previous semester

Assumed Knowledge: CHEM ENG 2002, 2003, 2009

Assessment: Project report, assignments, quizzes

Principles of process engineering and plant design for pharmaceutical engineering products. An introductory design project is solved using computer-aided process design techniques. Parallels the conventional chem. eng subject but tailored to be specific to pharmaceutical processes; costing of unit operations, design heuristics, process simulation theory & applications; software surveys.

CHEM ENG 3021
Advanced Pharmaceutical Unit Operation

3 units - semester 2

36 hrs lectures, 12 hrs tutorials

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Assumed Knowledge: CHEM ENG 2005, CHEM ENG 2009

Assessment: Exam and assignments

This course examines methodologies, both applied and fundamental, to analyze and scale up manufacturing pharmaceutical processes involving crystallization, adsorption, moving bed processes, electrophoresis, liquid and dispersed-phase systems e.g. liquid and multiphase mixing, sterilization and sanitation, lyophilisation. Also processes involving solids processing, such as solids characterization, blending, milling, granulation, tableting, coating, etc.

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 - synchonous and asynchronous. Hardware description languages; introduction to modelling in VHDL. Field Programmable Gate Arrays - architecture, design flow, modelling and coding approaches, CMOS fabrication technology and CMOS Logic. Memory cells and memory design.

ELEC ENG 3018
RF Engineering III

3 units - semester 1

36 hours 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 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.

ELEC ENG 3025
Power Electronics & Drive Systems M

3 units - semester 2

36 hours lectures, 6 hours 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 1009

Assessment: Quizzes, Major Assignment

Power electronics: characteristics of power electronic devices and classes of power converters. Power supplies (uninterrruptible, switchmode). Hard and soft-switching, resonant circuits. Losses and thermal design. Converter topologies and their operations and typical applications including traction drives, solar and wind generation systems.

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. System design, implementation and control. Computer interfacing, network communication

ENG 3003
Engineering Communication EAL

3 units - semester 1 or 2

12 hrs lectures, 24 hrs tutorial

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 SACE Level 2 LOTE or eligible to take ESL unit in Yr 11/12

Available for Non-Award Study

Incompatible: May not be presented with MATHS 3015 or ENG 3002

Assessment: Online tests, seminar presentation, written assignments

This course provides task-based language development in English as an additional language for spoken and written communication. It is designed to develop English language ability appropriate to the study of Engineering and, at an introductory level, relevant to professional Engineering communication practice. Class work is designed to develop the students' English speaking, listening, writing and reading proficiencies and does so

through the use of materials that focus on topical social issues in Engineering professional practice. Tasks and assignments are focused on academic writing, research and the preparation of evidence-based documents, as well as on group discussion and formal seminar presentation.

MECH ENG 3026
Aerospace Materials and Structures

3 units - semester 1

48 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

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, visco-elasticity 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: assignments 30% ,final exam 70%

The course covers communication skills, effective team work practices, project management, and all of the elements of the design process that are relevant to engineering projects. The various stages of the design process will be discussed including problem identification, concept generation, concept selection and design embodiment. Fundamentals of good design practices will also be covered including aesthetics, ergonomics and safety. Since effective communication is an essential aspect of engineering design, 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, structuring and writing a research paper, integrating evidence, and the effective presentation of seminars.

MECH ENG 3028
Dynamics and Control II

3 units - semester 2

45 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 3030
Structural Design and Solid Mechanics

3 units - semester 1

48 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, applicatio 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 3032
Micro-controller Programming

3 units - semester 2

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

The course examines the different types of materials used in the automotive industry, including metals, ceramics and composites. Selection of the appropriate material for a variety of applications will be discussed in terms of the material properties, ease of manufacture and performance in the anticipated service environment. Case studies will be used to demonstrate the design principles used when using each of these materials for automotive applications. The course develops an understanding of the mechanics of complex practical situations through the establishment and solution of an appropriate boundary value problem.

MECH ENG 3100
Aeronautical Engineering

3 units - semester 1

45 hours lectures, 6 hours tutorials

Available for Non-Award Study

Assumed Knowledge: MECH ENG 2021

Incompatible: Cannot be presented with MECH ENG 3016 or 4008

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 3101
Applied Aerodynamics

3 units - semester 2

45 hours lectures, 9 hours practicals

Available for Non-Award Study

Assumed Knowledge: MECH ENG 2021, 6 units Level II APP MATHS courses

Assessment: Lab classes 10%, assignments 20%, Final exam 70%

The aim of this course is to introduce students to the fundamentals and practical aspects of incompressible and compressible flows and the design and operation of flow systems, including pipe networks, automobiles and flight vehicles. The course content includes: flow of inviscid and viscous fluids; laminar and turbulent flow in pipes and boundary layers; losses in pipe systems; lift and drag forces on moving bodies, aerofoil theory; incompressible-flow machines; fundamentals of compressible flow; 1-D pipe flow; compressible flow nozzles; Rayleigh flow; Fanno flow; external compressible flow around bodies including transonic and supersonic vehicles; design considerations.

MECH ENG 3102
Heat Transfer & Thermodynamics

3 units - semester 1

45 hours lectures, 6 hours practicals

Available for Non-Award Study

Assumed Knowledge: MECH ENG 2021, 6 units Level II APP MATHS courses

Assessment: Lab class 10%, assignments 20%, Final exam 70%

Heat transfer modes: Conduction, Convection and Radiation. Heat Exchanger design and optimisation, boiling evaporation and condensation. Vapour power cycles; refrigeration cycles; non-reacting mixtures; psychrometry; combustion.

MECH ENG 3103
Manufacturing Engineering

3 units - semester 1

45 hours lectures, site visits

Available for Non-Award Study

Incompatible: Not presentable with MECH ENG 2007 or 3015

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 3104
Space Vehicle Design

3 units - semester 2

45 hours lectures, 6 hours practicals

Available for Non-Award Study

Assumed Knowledge: 6 units level 2 APP MTHS courses

Incompatible: Not presentable with MECH ENG 3025 or 4015

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 3105
Sustainability & the Environment

3 units - semester 1

Lectures and practicals

Available for Non-Award Study

Assumed Knowledge: 6 units of Level 2 Maths courses

Incompatible: Not presentable with MECH ENG 3017

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, climate change.

MECH ENG 3106
Mechatronics II

3 units - semester 1

48 hours lectures

Available for Non-Award Study

Incompatible: Not presentable with MECH ENG 3014

Assessment: Assignments, final exam

Advanced PLC programming and implementation, memory and data types, program structure, mathematic functions, floating point operation, and PLC industrial applications.

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:In-class assignments, take home tasks, quiz, final assessment test in-class

The course gives the theoretical basis and practical fundamentals for numerical simulation and analytical modelling of fluid flow in petroleum reservoirs. The partial differential equations required for modelling of single-phase and multi-phase fluid flow in porous media are derived. The governing systems are used for development of several analytical models which serve for reservoir evaluation and analysis. A particular attention is given to empirical functions of transport properties and phase equilibrium that the models contain and which are input functions into reservoir simulators. The numerical methods for solving the basic governing equations using finite difference methods are presented. Input data requirements and applications of simulation models for history matching and prediction of field performance will be discussed. Practical applications are directed to commercial reservoir simulator Eclipse.

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

Assumed Knowledge: PETROENG 1005, PETROENG 2009, basic probability and statistics, competency in Excel

Assessment: Assignments, exam

The objective of this course is to teach the basic science, technology and related assumptions involved in carrying out an integrated reservoir characterization study. It will prepare students to understand and interpret techniques that underlie commercial software (but will not teach software usage itself). The emphasis is on providing students with knowledge of a 'toolkit' for, but not a prescriptive approach to, the ultimate goal of constructing 3D static models.

The course has three main components: 1) Data sources, quality and analysis, including spatial analysis.

2) Generating 3D models of reservoir properties - classical gridding and mapping, kriging as a data-driven (variogram) form of classical mapping (estimation) and a means of data integration. Simulation techniques are introduced as a means of modelling uncertainty resulting from heterogeneity. 3) Scaling of grids and property models for the purpose of reservoir simulation is the final topic. The integration and application of all the major ideas is illustrated by a case study.

PETROENG 3007
Well Testing and Pressure Transient Analysis

3 units - semester 1

36 hrs lectures, 24 hrs 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 analyses, bounded reservoirs; gas well testing; type curves and derivatives; complex systems: multi-layer, dual-porosity, hydraulic fractures; interference and pulse testing; drill-stem testing; test design, equipment and operations.

PETROENG 3013
Petrophysics

2 units - Not available in 2009

40 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

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. 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 and case histories are used throughout.

PETROENG 3018
Drilling Engineering and Well Completion

3 units - Not available in 2009

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 course covers the fundamentals of drilling engineering and well completion. In the area of drilling; the following are covered: the drilling process; equipment and performance; well pressure control and buoyancy; fluid design; well casing design and cementing techniques; overview of drilling operations.

Well completions addresses: concepts and types of well completion design; overview of well performance; tubing string sizing and design; specialised components: wellheads, packers, expansion joints, subsurface safety valves etc; artificial lift design: beam pumping, gaslift, electric submersible pumps; introduction to well stimulation.

PETROENG 3019
Structural Geology and Seismic Methods

3 units - semester 2

Lectures, 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

lectures, tutorials , group projects

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]

The aim of this course is to provide familiarization of the principles and applications of various theories and techniques necessary to design, estimate and maximize production performance in a cost effective manner within various constraints from the oil and gas well systems. Attempts will be made to understand how these techniques could be applied in a practical field development project to identify the best way of exploiting petroleum reserves, as well as maximizing ultimate production.

This course will address details of reservoir inflow performance, well flowing performance, design of artificial lift systems, familiarization of petroleum production facilities, and analysis and optimization of total petroleum production systems using conventional and nodal analysis. Students will also be given opportunity to apply these theories and methods through numerical problem based exercises and practical project assignments. The project assignment may require the use of a commercial simulator.

PETROENG 3023
Well Completion and Stimulation

3 units - semester 2

36 hrs lectures, 24 hrs 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: 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;and matrix acidizing This course also covers the broad overviews of various completion techniques, tools, and wellhead types, and surface gathering systems.

PETROENG 3025
Reservoir Engineering

3 units - semester 2

Lectures, tutorials, lab demo

Assumed Knowledge: PETROENG 1001 or 1006, 2001, 2005, 2009, MATHS 1012, PHYSICS 1100

Assessment: Assignments, exam

Darcy's Law and Applications, Concepts of permeability, Relative permeablitiy, Capillary pressure, Wettability, Material Balance Equations for Different Types of Reservoirs and Drives, Aquifer Behaviour and Water Influx, Immiscible Displacement, Buckley-Leverett theory, Gravity-Stable Displacement, Water and Gas Injection, Coning and Cusping.

PETROENG 3026
Formation Damage in Petroleum Reservoirs

3 units - summer semester

Lectures, tutorials

Prerequisite: MATHS 1012

Assessment: In-class assignments, take home tasks, quiz, Final assessment test in-class

The course covers transport of colloids/suspensions in natural reservoirs and its applications to formation damage in injection and production wells, its prediction, mathematical and laboratory modelling, prevention and mitigation. The oil-production processes covered are injectivity decline, re-injection of produced water, invasion of drilling fluid, sand production, gravel pack, sand screens, fines migration, disposal of produced water, IOR. The physics phenomena caused damage include deep bed filtration, external filter cake formation, precipitation of salts, ashpaltenes and paraffines, fines migration and liberation, rock deformation and compaction, two-phase flow of suspensions and colloids. Cases of vertical, horizontal, fractured and perforated wells are discussed. Techniques of damage removal and well stimulation are presented.

The lectures are accompanied by numerous training exercises and field examples.

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: Foundations of Entrepreneurship

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 - winter semester

Intensive: Lectures and practicals

Restriction: At least 2 years full time UG study

Available for Non-Award Study

Assumed Knowledge: Foundations of Entrepreneurship

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&ENVENG 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&ENVENG 4034
Engineering Management IV

3 units - semester 1

36 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&ENVENG 4037
Introduction to Environmental Law

3 units - semester 2

36 hours lectures, tutorials and directed study

Restriction: Available only to Civil and Environmental students

Available for Non-Award Study

Prerequisite: all Level I, II & III courses to be passed before entering Level IV except by permission of Head, Civil & Env. Engineering

Assessment: May include assignments and/or exam - further details available at beginning of semester

The course examines regulatory mechanisms that address environmental problems and focuses particularly upon regulation of development. Included are: a general introduction to the law and the legal system; the nature of environmental problems in Australia; constitutional responsibilities and powers with respect to environmental planning and protection; land-use planning and protection systems; environmental impact assessment; regulation of pollution and waste disposal; and environmental litigation.

C&ENVENG 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&ENVENG 4069
Advanced Reinforced Concrete

3 units - semester 2

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&ENVENG 4070
Structural Dynamics due to Wind and Earthquakes

3 units - not offered in 2009

36 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, Civil & Env. Engineering

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 & Structural Engineering IV

3 units - semester 1 or 2

36 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 & 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 and/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 - Not offered in 2009

36 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 2009

36 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

36 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 and/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 2009

36 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 start 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

36 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 start of semester

Advanced topics in civil and environmental engineering.

C&ENVENG 4091
Waste Management Analysis and Design

3 units - semester 2

36 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 start 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

36 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 & exam - details at start 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 2009

36 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 2009

36 hours lectures, tutorials/design, practicals

Available for Non-Award Study

Assumed Knowledge: C&ENVENG 2033, C&ENVENG 2035, 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 - semester 1 (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 analyzed and blast design procedures for structural members are introduced; finally retrofitting technologies are developed to strengthen RC and masonry structures against blast loading.

C&ENVENG 4100A/B
Mining Research Project

6 units - Not available in 2009

5 hrs lectures, 120 hrs directed study

Restriction: Students in specified programs only - Check academic rules of programs

Prerequisite: Students must enrol into C&ENVENG 4100A in semester prior to Part B

Assumed Knowledge: 24 units at levels 1, 2 and 3 must be completed before entering level 4 except by permission of Head of Discipline

Assessment: Conference paper, Research report, oral presentation

Students work in groups on a research project under the supervision of an academic staff member. A list of research topics will be available at beginning of semester.

C&ENVENG 4101
Mine Management

3 units - semester 2

24 hrs lectures, 12 hrs tutorials, 12 hrs practicals

Available for Non-Award Study

Assumed Knowledge: C&ENVENG 1011, C&ENVENG 2068

Assessment: Exams and assignments

Management of production, inventory, services, contracts, finance, sales and marketing, personnel, public relations; mining law; health, safety and risk management; environmental management; introduction to system engineering.

C&ENVENG 4102
Mine Geotechnical Engineering

3 units - Not available in 2009

24 hrs lectures, 6 hrs tutorials, 18 hrs practicals

Available for Non-Award Study

Assumed Knowledge: C&ENVENG 2069, C&ENVENG 3071, C&ENVENG 3072

Assessment: Exams and assignments

Rock mass properties; rock slope engineering; mechanics, design, constructions and supports of underground excavations; tailings dam/waste dump constructions.

C&ENVENG 4103A/B
Mine Design and Feasibility Study

6 units - Not available in 2009

12 hrs practical, 120 hrs project

Restriction: Students in specified programs only - check Academic Rules

Available for Non-Award Study

Prerequisite: Must enrol into Part A in semester prior to Part B

Assessment: Report and oral presentation, technical merit of design and feasibility study

Students work in groups on a mine design and feasibility study project under the supervision of an academic staff member.

C&ENVENG 4104
Socio-Environmental Aspects of Mining

3 units - semester 1 or 2

24 hrs lectures, 12 hrs tutorials, 12 hrs practicals

Available for Non-Award Study

Assumed Knowledge: C&ENVENG 1011

Assessment: Exams and assignments

Prediction, evaluation, monitoring, assessment and mitigation of social and environmental impacts of mining operations; environmental impact assessment (EIA) and risk management, mine reclamation and rehabilitation.

C&ENVENG 4105
Mineral Processing Engineering

3 units - semester 1 or 2

24 hrs lectures, 12 hrs tutorials, 12 hrs practicals

Available for Non-Award Study

Assumed Knowledge: C&ENVENG 1011

Assessment: Exams and assignments

Mineral dressing and process metallurgy; comminution process - crushing and grinding; concentration techniques; flotation; introduction to pyrometallurgy, electrometallurgy and hydrometallurgy.

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 - further details available at beginning of semester

Special topics in Chemical Engineering as determined by the Head of the Chemical Engineering School. This course may be offered from time to time and will be taught by visiting academic/s.

CHEM ENG 4002A/B
Chemical Engineering Research Elective II

4 units - full year

200 hours practical work, seminar

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

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 2009

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 4010, 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.

CHEM ENG 4032
Composite & Multiphase Polymers

3 units - semester 2

Lectures 24 hours, tutorials 12 hours, project 9 hours

Available for Non-Award Study

Assumed Knowledge: CHEM ENG 1003 or CHEM ENG 1009

Assessment: Exams, tutorials, project

This course aims to provide students with a basic understanding of the underlying science and the engineering performance of composites (part A) and multiphase polymer (part B) materials, which form an important class of engineering materials. Topics covered in part A include: composite benefits and applications; types of fibres and polymer matrices; fibre architecture; manufacturing processes; elasticity and stress analysis; strength, modulus and Poisson's ratio of unidirectional composites; short fibre composites; lamination theory; toughness of composites; characterisation of composites and their performance. Topics covered in part B include: thermodynamics of blending; properties of polymer blends and foaned polymer; production and properties of structural foams; and orientated polymers.

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

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, ELEC ENG 3019A/B, ELEC ENG 3020, ELEC ENG 4036A

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 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

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: 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 (uninterrruptible, switchmode). Hard and soft-switching, resonant circuits. Losses and thermal design.

Advanced energy-efficient motor drives: review of motor theory, power electronic control principles, vector and servo drives (stepper, DC, induction, brushless PM and switched-reluctance). Motor and drive selection and application. System design, implementation and control. Computer interfacing, network communication.

ELEC ENG 4043
Power Quality and Condition Monitoring

2 units - semester 1

24 hours 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 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 2007 Signals & Systems

Assessment: Written exam, in-term assessment

Discrete time signals, decimation, interpolation and analogue signal reconstruction. Discrete and fast Fourier transforms, windowing. stochastic processes, covariances and power spectrum. Principles of estimation and spectral estimation, averaging and smoothing and quantisation noise. Digital filtering principles, causality and stability, frequency domain filtering and convolutions. FIR digital filters, linear phase and group delay, frequency domain design of digital filters. IIR filters, bilinear transform from s to z plane and mapping analog filters to digital domain. Optimum Weiner filters, LMS adaptive filters and applications. Wavelet transforms, sub-band filters, frequency, scale and 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 - semester 1 or 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: as prescribed by Head of Discipline

Assessment: May include tests, written exam, assignment - details at start of semester

Special topics in Electrical and Electronic Engineering, as determined by the Head of the School.

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 ENG3018 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

Restriction: Students in specified programs only, please check the Academic Rules of the program in which you are enrolling

Available for Non-Award Study

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 4100
Advanced Topics in Aerospace Engineering

3 units - semester 2

45 hrs Lectures, tutorials and practicals

Available for Non-Award Study

Incompatible: May not be presented with MECH ENG 4063

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.

MECH ENG 4101
Biomechanical Engineering

3 units - semester 2

45 hours lectures, tutorials and practicals

Available for Non-Award Study

Assumed Knowledge: MECH ENG 2002

Incompatible: May not be presented with MECH ENG 4057

Assessment: Assignments, laboratory experiments, Final 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 4102
Advanced PID Control

3 units - semester 1

45 hours lectures, 20 hours practicals

Available for Non-Award Study

Assumed Knowledge: MECH ENG 2019, MECH ENG 3028

Incompatible: May not be presented with MECH ENG 4011

Assessment: Tutorials, assignments,laboratories, exams (written and Matlab)

Advanced topics in automatic control system design. Emphasis will be placed on techniques used to accommodate uncertainty in practical systems.

MECH ENG 4103
Advanced Computer Aided Engineering

3 units - semester 1

45 hours lectures, 20 hours practicals

Available for Non-Award Study

Assumed Knowledge: MECH ENG 1001 or 1006

Incompatible: May not be presented with MECH ENG 3034

Assessment: Assignments, 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 will be encouraged to familiarise themselves with the operation of the software through problem based assignments.

MECH ENG 4104
Advanced Topics in Fluid Mechanics

3 units - semester 2

45 hours lectures, 5 hours practical

Available for Non-Award Study

Assumed Knowledge: MECH ENG 2021, MECH ENG 3031

Incompatible: Not presentable with MECH ENG 4023

Assessment: Assignments, Lab experiments, 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 4105
Advanced Vibrations

3 units - semester 1

45 hours lectures, 5 hours practicals

Available for Non-Award Study

Assumed Knowledge: MECH ENG 3028

Incompatible: May not be presented with MECH ENG 4020

Assessment: Assignments, lab 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 4106
Aerospace Propulsion

3 units - semester 1

45 hours lectures, 5 hours practical

Available for Non-Award Study

Assumed Knowledge: 6 units Level 2 Applied Maths

Incompatible: May not be presented with MECH ENG 4036 or MECH ENG 4037

Assessment: Assignments, 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. 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 4107
Airconditioning

3 units - semester 2

45 hours lectures, 5 hours practicals

Available for Non-Award Study

Assumed Knowledge: MECH ENG 3028 or MECH ENG 3031

Incompatible: May not be presented with MECH ENG 4013

Assessment: Assignments, lab experiments, 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 4108
Aircraft Design

3 units - semester 1

45 hours lectures, 5 hours practical

Available for Non-Award Study

Assumed Knowledge: MECH ENG 3016

Incompatible: May not be presented with MECH ENG 4062

Assessment: Assignments, final exam

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 vehicle, as well as pros and cons of different layout scheme of aircraft. The course is concluded by presenting design projects and discussing the achieved results by the students.

MECH ENG 4109
Automotive Combustion, Power Train & NVH

3 units - Not offered in 2009

45 hours lectures, 5 hours practical

Available for Non-Award Study

Assumed Knowledge: MECH ENG 3017, MECH ENG 2021

Incompatible: May not be presented with MECH ENG 4043

Assessment: Assignments, experiments, 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 4110
Automotive Vehicle Dynamics & Safety

3 units - semester 2

45 hours lectures, 5 hours practicals

Available for Non-Award Study

Assumed Knowledge: MECH ENG 3028

Incompatible: May not be presented with MECH ENG 4044

Assessment: Assignments, final exam

This course will educate students in automotive vehicle dynamics and safety. The course will cover the dynamics of vehicles on the road during normal operation as well as during impact and other crash scenarios. Specific topics include vehicle handling, stability and control, tyre dynamics, suspension design, braking performance, automotive safety, impact dynamics, road safety engineering and safety regulations.

MECH ENG 4111
CFD for Engineering Applications

3 units - semester 1

45 hours lecture, 5 hours practical

Available for Non-Award Study

Assumed Knowledge: MECH ENG 3031,

Incompatible: May not be presented with MECH ENG 4046

Assessment: Assignments, laboratory experiments, 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 be also covered in the course.

MECH ENG 4112
Combustion Technology & Emission Control

3 units - semester 1

45 hours lectures, 5 hours practicals

Available for Non-Award Study

Assumed Knowledge: MECH ENG 2021, MECH ENG 3031, MECH ENG 3020

Incompatible: May not be presented with MECH ENG 4002

Assessment: Assignments, lab experiments, 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 4113
Computational Acoustics

3 units - semester 2

36 hours lectures, 25 hours practicals

Available for Non-Award Study

Assumed Knowledge: MECH ENG 3017

Incompatible: May not be presented with MECH ENG 4026

Assessment: Assignments,lab experiments, 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 4114
Corrosion: Principles and Prevention

3 units - semester 2

45 hrs Lectures and practicals

Available for Non-Award Study

Assumed Knowledge: CHEM ENG 1009

Incompatible: May not be presented with MECH ENG 4061

Assessment: Assignments, lab experiments, final exam

Fundamentals of corrosion: free energy of oxidation, oxidation and reduction reactions, Pourbaix diagrams, corrosion kinetics, polarization 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 4115
Engineering Acoustics

3 units - semester 1

45 hours lectures, 5 hours practicals

Available for Non-Award Study

Assumed Knowledge: MECH ENG 3017, 6 units of Level 2 App Maths courses

Incompatible: May not be presented with MECH ENG 4004

Assessment: Assignments, lab experiments, 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 4116
Engineering Management & Quality Systems

3 units - semester 2

48 hours lectures and practicals

Available for Non-Award Study

Incompatible: May not be presented with MECH ENG 4038

Assessment: Assignments, lab experiments, final exam

Students will be taught and learn through self directed research the engineering issues of personnel and resource management, project and business management, risk management and the legal aspects pertaining to engineering businesses. 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 4117
Finance for Engineers

3 units - semester 2

48 hours lectures and practicals

Available for Non-Award Study

Incompatible: May not be presented with MECH ENG 4039

Assessment: Assignments, lab experiments, final exam

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 4118
Finite Element Analysis of Structures

3 units - semester 1

45 hours lectures, 15 hours practical

Available for Non-Award Study

Assumed Knowledge: MECH ENG 2002, MECH ENG 2019, MECH ENG 3028

Incompatible: May not be presented with MECH ENG 4059

Assessment: Assignments, lab Experiments, final exam

The course will equip the students with the necessary knowledge to use finite element analysis to solve problems related to solid mechanics, dynamics and heat-transfer. In particular, students will have hands-on experience in using finite element analysis software ANSYS and MSC Nastran to solve realistic engineering problems.

MECH ENG 4119
Fire Engineering

3 units - semester 2

45 hours lectures and practicals

Available for Non-Award Study

Incompatible: May not be presented with MECH ENG 4042

Assessment: Assignments, lab experiment, 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 4120
Fracture Mechanics

3 units - semester 2

48 hours lectures and practicals

Available for Non-Award Study

Assumed Knowledge: MECH ENG 2002, MECH ENG 3030, 6 units level 2 App Mths

Incompatible: May not be presented with MECH ENG 4003

Assessment: Assignments, lab experiments,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 4121
Material Selection & Failure Analysis

3 units - Not offered in 2009

45 hours lectures and practicals

Available for Non-Award Study

Assumed Knowledge: CHEM ENG 1009

Incompatible: May not be presented with MECH ENG 4024

Assessment: Assignments, lab experiments, final exam

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 4122
Mechanical Signature Analysis

3 units - semester 2

45 hours lectures, 5 hours practicals

Available for Non-Award Study

Assumed Knowledge: MECH ENG 3028

Incompatible: May not be presented with MECH ENG 4033

Assessment: Assignment, lab experiments, 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 4123
Advanced Mechatronic & Digital Control

3 units - semester 2

45 hours lectures, 5 hours practical

Available for Non-Award Study

Incompatible: May not be presented with MECH ENG 4053

Assessment: Assignments, final 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. 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 4124
Robotics M

3 units - semester 1

45 hours lectures, 5 hours practicals

Available for Non-Award Study

Assumed Knowledge: MATHS 1012, MECH ENG 2019, & 3028

Incompatible: May not be presented with MECH ENG 4027

Assessment: Assignments, final 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 4125
Stresses in Plates & Shells

3 units - semester 1 or 2

45 hours lectures, 5 hours practicals

Available for Non-Award Study

Assumed Knowledge: At least 6 units of level 2 APP MTHS courses

Incompatible: May not be presented with MECH ENG 4055

Assessment: Assignments, final 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 places, 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 4126
Topics in Welded Structures

3 units - semester 1

45 hours lectures, practicals

Available for Non-Award Study

Assumed Knowledge: CHEM ENG 1009

Incompatible: May not be presented with MECH ENG 4025

Assessment: Assignments, lab experiments, final exam

This course presents the concepts behind welding and joining technology. These include welding and joining techniques, equipment and consumables, weldability of engineering materials, economics, standards, health and safety, testing and repair. The concepts are then applied to the design and fabrication of engineering components, process plant and structures. The importance of selecting the correct welding process and parameters for a particular application will be demonstrated by investigating several case studies. Since a weld/joint can have a profound effect on the performance of a component depending on the in-service conditions it experiences, the influence of service environment will be investigated. At the end of the course students should have the concepts to assist in the selection of processes and parameters to make appropriately designed, sound joints, fit for service in the operating environment.

MECH ENG 4127
Wind Engineering

3 units - semester 1

45 hours lectures, 5 hours practical

Available for Non-Award Study

Assumed Knowledge: MECH ENG 3031

Assessment: Assignments, lab Experiments, final exam

This course provides an introduction of meteorology to describe the atmospheric boundary layer and the climate of wind. It then demonstrates the application of fundamental fluid mechanics principles to basic bluff body aerodynamics in subsequently determining environmental wind effects and dynamic response of a structure in turbulent wind flow. Use of wind tunnel experimental measurements as well as wind codes and Australian Standard AS/NZS 1170.2:2002 to evaluate design wind speeds and structural response are also included

MECH ENG 4128A/B
Aerospace Design Project

6 units - full year

24 hours lectures, 20 hours individual supervision, 180 hours project

Available for Non-Award Study

Incompatible: May not be presented with MECH ENG 4051B

Assessment: Prelim report, exhibition, seminar to present report, 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 4130A/B
Automotive Design Project

6 units - full year

24 hours lectures, 20 hours individual supervision, 180 hours project

Available for Non-Award Study

Incompatible: May not be presented with MECH ENG 4048B

Assessment: Prelim report, exhibition, seminar to present report, fnal 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 4132A/B
Mechanical Design Project

6 units - full year

24 hours lectures, 20 hours individual supervision, 180 hours project

Incompatible: May not be presented with MECH ENG 4041B

Assessment: Prelim report, exhibition, seminar to present report, 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 4134A/B
Mechatronic Design Project

6 units - full year

24 hours lectures, 20 hours individual supervision, 180 hours project

Incompatible: May not be presented with MECH ENG 4050B

Assessment: Prelim report, exhibition, seminar to present report, 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 4136A/B
Sports Engineering Design Project

6 units - Not offered in 2009

24 hours lectures, 20 hours individual supervision, 180 hours project

Assessment: Prelim report, exhibition, seminar to present report, 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 4138A/B
Sustainable Energy Design Project

6 units - Not offered in 2009

24 hours lectures, 20 hours individual supervision, 180 hours project

Assessment: Prelim report, exhibition, seminar to present report, 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.

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

Assumed Knowledge: MATHS1012, PHYSICS1100, PETROENG1001 or 1006,2001,2005, 2009, 3005,3025

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 large assignments

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 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 is 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 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.

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 and Risk Analysis

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 is which you are enrolling

Available for Non-Award Study

Assumed Knowledge: PETROENG 1005, basic probability and statistics, competency in Excel

Incompatible: Cannot be presented with PETROENG 4027, 7009 or 7049

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 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 is a more extensive 3-unit version)

PETROENG 4025
Gas Fields Optimisation

2 units - semester 2

Intensive short course of lectures, tutorials & seminars

Restriction: students in specified programs only, please check Academic Rules of the program in which you are enrolling

Assessment: Assignments, exam

This course will provide a sound understanding of Reservoir Engineering Principles pertaining to Gas Reservoirs and the ability to apply these to solve practical problems relating to Gas Reservoir Development, Surveillance and Management focusing on how these differ from corresponding processes for Oil Reservoirs.

The course will address individual well and total reservoir performance analysis. Various reserve calculation techniques will be discussed such that the participants will have a good understanding of the applicability of the different methods at different points in the life cycle of the reservoir.

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, 7009 or 7049

Assessment: Assignments, group discussions and exam

This course is a 3-unit alternative to PETROENG 4024, Decision Making and Risk Analysis. In addition to the material in 4024, it has more extensive coverage of Monte Carlo Simulation (modelling dependencies and using the @Risk Excel add-in) and Value of Information (3x3 "tree-flips" and sensitivity analysis). In addition, Utility Theory will be introduced as a means of rationally accounting for risk attitudes.

PETROENG 4028
Project Management

2 units - semester 2

Lectures and tutorials

Restriction: students in specified programs only, please check Academic Rules of the program is 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 4029
Reservoir Geology & Geophysics

2 units - semester 1

Intensive short course of lectures, tutorials & seminars

Available for Non-Award Study

Assessment:Exam

Development Geology provides a working knowledge of the main qualitative and quantitative techniques used by development geologists in evaluating subsurface reservoir properties. Commencing with the geological structure and depositional environments, the course covers such practicalities as mapping and well correlation. Geological control is discussed, and case histories review various methods of estimating hydrocarbon volumes. While concentrating on concepts, some state-of-the-art topics, such as seal evaluation, will also be discussed. Practical applications are incorporated in hands-on exercises.

The geophysics component provides a basic understanding of the principles of reflection seismic, such as wave propagation, convolution and seismic velocity and resolution. The acquisition segment covers hardware elements used to acquire data and survey design, including 2D versus 3D, and marine versus land surveying. Data processing includes de-convolution, velocity analysis, stacking and migration. The mechanics of interpretation outlines data display, synthetics, picking, and auto-tracking, velocity anomalies and depth conversion. Sequence stratigraphy is dealt with in conjunction with inversion and seismic attribute analysis. More recent advances are also outlined: reservoir fluids and their movement, e.g. DHIs and AVO, and time lapse seismic. Emphasis is on 3D seismic, with numerous illustrations and case histories.

PETROENG 4031
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

Assumed Knowledge: Not presentable with PETROENG 3002

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, case study and portfolio management. If time permits, there wil be an introduction to real options analysis and its application to valuing flexibility and risk.

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, ELEC ENG 4039A

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 4129A/B
Aerospace Honours Project

6 units - full year

24 hours lectures, 20 hours individual supervision, 180 hours project

Available for Non-Award Study

Incompatible: May not be presented with MECH ENG 4035B

Assessment: Prelim report, exhibition, seminar to present report, 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 4131A/B
Automotive Honours Project

6 units - full year

24 hours lectures, 20 hours individual supervision, 180 hours project

Incompatible: May not be presented with MECH ENG 4047B

Assessment: Prelim report, exhibition, seminar to present report, 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 4133A/B
Mechanical Honours Project

6 units - full year

24 hours lectures, 20 hours individual supervision, 180 hours project

Incompatible: May not be presented with MECH ENG 4007B

Assessment: Prelim report, exhibition, seminar to present report, 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 4135A/B
Mechatronic Honours Project

6 units - full year

24 hours lectures, 20 hours individual supervision, 180 hours project

Incompatible: May not be presented with MECH ENG 4019B

Assessment: Prelim report, exhibition, seminar to present report, 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 4137A/B
Sports Engineering Honours Project

6 units - Not offered in 2009

24 hours lectures, 20 hours individual supervision, 180 hours project

Assessment: Prelim report, exhibition, seminar to present report, 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 4139A/B
Sustainable Energy Honours Project

6 units - Not offered in 2009

24 hours lectures, 20 hours individual supervision, 180 hours project

Assessment: Prelim report, exhibition, seminar to present report, 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.

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.

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 and project thesis

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.

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 range of texts written in the English language and selected from the previous two centuries. Each text illustrates different understandings of what constitutes 'the real' and what literary techniques best represent it. The course examines a variety of genres including fiction, short fiction and poetry. Students are introduced to a range of interpretive practices, and the course is designed to increase their skills in critical reading, analysis, writing and research.

ENGL 1104
Professional English (ESL) I

3 units - semester 1 or 2

3 contact hours per week

Incompatible: Not available to students who have completed Year 12 English Studies or Year 12 English Communications or equivalent (ie native speakers of English), English for Professional Purposes (ESL) I & II or ENGL 2016/3016/2046

Assessment: Short professional communications 10%, grammar tests 10%, referencing assignment 10%, summary & opinion 15%, job application: CV & cover letter 15%, participation 10%, exam 30%

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. The course is designed for students whose first language is not English. Common business documents are studied, as well as grammar, syntax and style.

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 1107
Shakespeare

3 units - semester 2

3 contact hours per week

Available for Non-Award Study

Assessment:Participation 10%, annotated bibliography in preparation for research essay 20%, 1,500 word research essay 30%, exam 40%

This course will look closely at four Shakespeare plays, one each from the major genres of tragedy, comedy, history, and romance. The plays to be studied will vary from year to year depending on participating staff members. Topics covered will include character, form, spectacle, theme, sources, the original conditions of production, and the reproduction of Shakespeare's plays in a contemporary context. Students will be introduced to a range of critical approaches to Shakespeare's plays, and be encouraged to reflect on questions of canonicity, cultural value and authority, and the politics of production and reproduction. Film and TV adaptations of the plays may be used to enhance discussion and reflection. The course is suitable for students with little or no prior knowledge of Shakespeare and also for those wishing to become more familiar with the playwright's work. It may be studied as a 'one off' course or for the sound basis it will provide for studying some of the advanced courses offered by the Discipline of English, such as Renaissance

Writing and Adaptation. The course will run in odd numbered years beginning in 2009, replacing Landmarks in English Literature in those years.

ADVANCED LEVEL

ENGL 2041
The Sixties: From the Beats to the Bongs

3 units - semester 2

3 contact hours per week

Available for Non-Award Study

Prerequisite: 12 units at Level I from any Faculty

Assumed Knowledge: Familiarity with the reading and analysis of literary texts equivalent to first-year English standard.

Incompatible: ENGL 2024/3024

Assessment: Online and in class participation 10%, seminar paper 40%, take-home examination 50%

This course will examine the 1960s in the West as a time of social, political and cultural change. It will encompass both 'high' and 'low' cultural forms in an attempt to expose students to some of the prevailing preoccupations of the decade. Topics will be taken from some or all of the following: fiction, poetry, film, popular music, television and political writings. In addition to specific texts, social and political movements will be discussed. Students will gain an historical overview of significant cultural moments and political movements from the decade through the lens of cultural studies and historical and literary methodologies. They will gain a working understanding of these methodologies.

ENGL 2042
Icons of Decadence

3 units - semester 1

3 contact hours per week

Available for Non-Award Study

Prerequisite: 12 units Level I from any Faculty

Assumed Knowledge: Familiarity with the reading and analysis of literary texts equivalent to first-year English standard.

Incompatible: ENGL 2038/3038

Assessment: 500 word seminar presentation abstract 10%, 2,000 word seminar paper 30%, exam 50%, participation 10%

This course examines a number of novels and short stories published in the period 1880-1910, many of which have had a continuing life in popular culture through films, television adaptations, and rewritings. Students will have an opportunity to explore these texts in their historical and social contexts, including the important concept of 'decadence,' aestheticism, sexualities, the emergence of psychoanalysis, and 'moral panics' about gender roles, immigration, and disease. There will be opportunities to consider the reasons for the continuing influence and popularity of these texts.

ENGL 2043
Medieval English Literature

3 units - semester 1

3 contact hours per week

Available for Non-Award Study

Prerequisite: 12 units Level I from any Faculty

Assumed Knowledge: Familiarity with the reading and analysis of literary texts equivalent to first-year English standard.

Incompatible: ENGL 2012/3012

Assessment: Essay 40%, tutorial participation & presentation 20%, exam 40%

This course offers an opportunity to study some of the major English texts, authors, and genres of the period 1350-1450. Texts studied will include narrative poems (the anonymous Sir Gawain and the Green Knight and a selection of tales from Chaucer's Canterbury Tales), prose (Malory's Morte D'Arthur) and drama (a selection of medieval mystery and morality plays).

ENGL 2044
Renaissance Writing

3 units - semester 2

3 contact hours per week

Available for Non-Award Study

Prerequisite: 12 units Level I in any Faculty

Assumed Knowledge: Familiarity with the reading and analysis of literary texts equivalent to first-year English standard.

Incompatible: ENGL 2018/3018

Assessment: Portfolio of selected in-class exercises & seminar preparation 60%, exam 40%

This subject explores plays, poetry and prose works from the early modern period in Britain. Students will have the opportunity to develop skills necessary for reading early modern works and we will use a single anthology for the set text. The subject considers some of the differing conditions and contexts of reading and writing for men and women, and it introduces debates about the importance of early modern ideas for understanding contemporary culture. We will draw on some of the collections of early modern materials available in South Australia and have the opportunity to explore visual arts, music, food and other examples of our British cultural inheritance during the course.

ENGL 2045
The Short Story

3 units - semester 1

3 contact hours per week

Available for Non-Award Study

Prerequisite: 12 units Level I any Faculty

Assumed Knowledge: Familiarity with the reading and analysis of literary texts equivalent to first-year English standard.

Incompatible: ENGL 2028/3028

Assessment:Continuous participation in writing exercises 20%, 2,500 word short story plus 500 word exegesis 50%, exam 30%

This course is designed as an introduction to the craft and culture of short fiction and creative non-fiction. Students will be introduced to a range of short texts written in English and some significant short stories translated

into English. The course aims to broaden students' understanding and appreciation of the range of writing in short forms and of the contexts of short story production. The short story is particularly appropriate for encouraging comparative analysis between literary cultures and phases of literary development. Students will be expected to apply their understanding of short story forms, contexts and techniques through a series of creative exercises and the production of a short story for assessment.

ENGL 2046
English for Professional Purposes

3 units - semester 1

3 contact hours per week

Available for Non-Award Study

Prerequisite: 12 units Level I in any Faculty

Incompatible: ENGL 2016/3016, ENGL 2104/3104

Assessment: Practical writing & research assignments 70%, public speaking exercise 10%, in-class tests 20%

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 business communications. Common business documents are studied, as well as grammar, syntax, report writing, the construction of an argument and editing. Lectures and workshops focus on business letters, job application packages, formal reports and submissions, media releases as well as written, spoken and electronic forms of communication.

ENGL 2047
World Literatures in English

3 units - semester 1

3 contact hours per week

Available for Non-Award Study

Prerequisite: 12 units Level I in any Faculty

Assumed Knowledge: Familiarity with reading and analysis of literary texts equivalent to first-year English standard

Incompatible: ENGL 2022

Assessment: Participation 10%, seminar presentation 15%, presentation report & annotated bibliography 25%, take-home exam 50%

This course is designed to provide an understanding of a range of recent world literatures in English. The particular countries, authors and genres covered will vary from year to year, depending on staff availability. We will focus on narrative fiction, but will sometimes also include drama, film and poetry. Here you will gain an understanding of literary works in both their local context and their global transformations. We will consider the key questions of postcolonial theory, assess the usefulness of key postcolonial concepts and concerns in relation to the set texts, and at the same time focus on the rich specificities of the selected literary works in order to answer for ourselves why so many of them have been so highly acclaimed internationally, and why each of them is worth studying.

ENGL 2048
Adaptation

3 units - semester 1

3 contact hours per week

Prerequisite: 12 units Level I in any Faculty

Assumed Knowledge: Level I studies in at least one course offered in the Discipline of English, preferably including Film Studies I

Assessment: Participation, research-based seminar presentation and associated annotated bibliography, essay or adaptation piece, exam

This course is designed to give students an understanding of issues involved in adaptation of literary works (narrative, dramatic, poetic) for the cinematic screen. Students will be introduced to specific knowledge about the cultural, industrial, political, social, historic and technological circumstances surrounding the production and reception of the texts, plays and films featured on the course. The course will offer students an opportunity to reflect on questions of fidelity, textual authority and cultural prestige. Students will be introduced to key concepts and practices in the semiotic analysis of verbal and visual media. They will engage with theoretical debates informing the development of adaptation studies as a scholarly field. They may also discuss issues in narratology and writing practice. The course will be structured as a sequence of blocks allowing students to work in detail with a combination of literary and cinematic materials, critical materials, and theoretical readings, all focussed on a particular instance of adaptation.

ENGL 2049
Contemporary Australian Culture

3 units - semester 2

3 contact hours per week

Available for Non-Award Study

Prerequisite: 12 units Level I in any Faculty

Assumed Knowledge: Familiarity with reading and analysis of literary texts equivalent to first-year English standard

Assessment: 500 word seminar presentation abstract 10%, 2,000 word seminar paper 30%, exam 50%, participation 10%

This course introduces students to debates in and about contemporary Australian culture. It will examine a variety of material including literature, film, essays and some material signs of Australian culture. The course will focus on the ways that 'Australianness' and 'the nation' have been conceptualised in recent debates, and the ways in which various understandings of Australia are represented in contemporary culture.

ENGL 2051
Literature and Society in Victorian Britain

3 units - semester 2

3 contact hours per week

Prerequisite: 12 units Level I in any Faculty

Assumed Knowledge: Familiarity with reading and analysis of literary texts equivalent to first-year English standard

Assessment: Seminar presentation plus 500 word annotated bibliography 20%, 2,000 word seminar paper 30%, exam 40%, participation 10%

The nineteenth century witnessed extraordinary social and cultural change in Britain, from the rise of industrial capitalism to the emancipation of women, from the decline of Christian belief to the growth of Empire, from urbanisation to the emergence of mass literacy. This course will introduce students to some significant texts and literary movements of the period, in the wider context of social transformation and emerging literary practices. Issues to be considered will include the establishment of the novel as the dominant literary genre, the ways in which social values are encoded and contested in literary texts, and the relationship of traditional and experimental practices in poetic forms. The course aims to develop students' analytic and critical skills through an engagement with a range of issues and methodologies in literary studies. Students will have an opportunity to develop their independent and team research skills through the identification and competent use of relevant information sources in relation to specific research questions.

CAPSTONE

ENGL 3100
Concepts of Criticism: Readers, Writers, Texts

3 units - semester 2 (Not offered until 2010)

3 contact hours per week

Prerequisite: 15 units in English, of which no more than 6 may be at Level I

Assessment: Portfolio of selected in-class exercises and seminar preparation: equivalent 2,500 words 50%; 3,000 word essay 50%

This capstone course is designed to give students an understanding and an opportunity to reflect on core skills and methods of the discipline of English. It will be structured as a sequence of blocks giving intensive exposure to key concepts of the critical and analytic processes, working in each case with a combination of primary literary or film texts, critical material, and theoretical readings. The concepts to be covered will vary from year to year depending on participating staff members, so that each segment of the course will be conducted by a staff member with directly relevant expertise and current or recent research experience in that area of enquiry. Concepts to be discussed may include: genre; ideology; formalism; and text.

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 Advanced Level courses 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 2009 will be available from the English Office late in 2008 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 a suitable portfolio of creative writing - see Creative Writing Coordinator for details

Assessment: Thesis (12,000 word) piece of creative writing plus 3,000 word exegetical essay

Students wishing to take Honours Creative Writing should consult the Honours Coordinator prior to commencing Advanced Level courses 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 pre-requisite for the course. The portfolio may include creative writing developed and presented in undergraduate studies in English. The work for the year consists of 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 2009 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 I

ENV BIOL 1002
Ecological Issues I

3 units - semester 2

3 x 1 hour lectures per week, 3 hour practical per fortnight, 3 field trips per semester

Incompatible: ENV BIOL 1002RW

Assessment: Exam, written assignments

The principal aim of this course is to provide students with the knowledge that will enable them to participate actively in a rational debate about environmental problems. It introduces the 'scientific method' and illustrates its use via laboratory and field practicals that are written up as reports. The lectures cover the

significant environmental issues of: resource utilisation and waste, ecosystem services and ecological footprints, global cycles, Australian landscapes and soils, biodiversity, grazing and indigenous knowledge, agricultural problems, invasive species, pests and quarantine, freshwater and marine ecosystems, conservation biology and adaptive management. There is the opportunity to discuss problems via tutorials.

LEVEL II

ENV BIOL 2005
Ecology for Engineers II

3 units - semester 2

2 x 1 hour lectures, 3 hour practical per week, 4 day field camp during first week of mid semester break

Restriction: BEngineering, or special permission of Course Coordinator

Incompatible: ENV BIOL 2901A, ENV BIOL 2005 and ENV BIOL 2003

Assessment: Assignments and/or exam - further 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 2500
Botany II

3 units - semester 1

2 x 1 hour lectures , 3 hour practical per week

Assumed Knowledge: BIOLOGY 1101

Incompatible: BIOLOGY 1203RW

Assessment: Exam, practical reports & assignments

A general introduction to the biology of plants. Lectures and practicals cover plant structure, function, classification, diversity, evolution and responses to environmental stress. Provides a valuable basis for future plant-related courses.

ENV BIOL 2501
Evolutionary Biology II

3 units - semester 2

3 x 1 hour lectures per week, 12 x 3 hour practicals/tutorials per semester

Assumed Knowledge: BIOLOGY 1101 and BIOLOGY 1201 or BIOLOGY 1202

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 2502
Ecology II

3 units - semester 2

2 x 1 hour lectures, 3 hour practical per week, 4 day field camp during first week of mid semester break

Prerequisite: BIOLOGY 1202

Assumed Knowledge: BIOLOGY 1101 and BIOLOGY 1202

Assessment: Practical, field work, exam

This course introduces the core principles of modern ecology, provides basic skills for the conduction of field studies, and fosters the development of the skills needed for the scientific analysis of ecological systems. The topics are integrated into a conceptual framework that allows students to analyse real situations. Topics include the description and study of biological populations and communities, the factors that determine their properties and dynamics, the patterns and consequences of species diversity, and the biotic and abiotic factors that control the dynamics of ecological systems. Across these topics, the impact of human activities on ecosystem processes is discussed. Case studies are used to illustrate the underlying theory, and the application of the ecological theory to the management of natural resources for use and conservation. The course is relevant for students interested in furthering their understanding of ecological principles, in the management of rangelands, wildlife, fisheries, forests, and human made systems, and in the conservation of natural ecosystems.

ENV BIOL 2503
Zoology II

3 units - semester 1

3 x 1 hour lectures per week, 8 x 3 hour practicals per semester, 4 day field trip

Assumed Knowledge: BIOLOGY 1101 and BIOLOGY 1201 or BIOLOGY 1202

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 event 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.

LEVEL III

ENV BIOL 3002
Australian Biota: Past, Present and Future III

3 units - semester 2

2 x 1 hour lectures, 4 hour practical per week

Assumed Knowledge: ENV BIOL 2001

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 x 1 hour lectures, 1 hour tutorial, 4 hour practical per week

Assumed Knowledge: 8 units of Level II Environmental Biology courses, SACE Stage 2 Chemistry and/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 x 1 hour lectures, 4 hour practical per week

Assumed Knowledge: 8 units of Level II Environmental Biology courses (Science students) and ENV BIOL 2005 or approval of Head for BE students

Incompatible: WRM 7024

Assessment: Assignments, written test

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

1 x 2 hour lectures, 4 hour practical per week

Assumed Knowledge: 8 units of Level II Environmental Biology courses and STATS 1000 or STATS 1003 or equiv

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 III

3 units - semester 2

2 x 1 hour lectures, 3 hour practical per week, 4-5 days fieldwork (during semester or mid semester break)

Assumed Knowledge: ENV BIOL 2003 or equiv

Incompatible: ENV BIOL 3023 and 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 x 1 hour lectures, 4 hour practical per week, 3 day field trip

Assumed Knowledge: ENV BIOL 2006 or PLANT SC 2001WT

Incompatible: ENV BIOL 3009

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 hour lecture, 4 hour practical per week, 5 day field trip

Assumed Knowledge: 8 units of Level II Environmental Biology courses (or equiv) and 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 III

3 units - semester 1

2 hour lecture, 4 hour practical per week, 5 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 - semester 2

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 III

3 units - semester 1

2 x 1 hour lectures, 3 hour practical per week, 4 day field camp

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 hour lecture, 1 x 3 hour 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 III

3 units - semester 2

4 - 6 hours project work/seminars per week

Restriction: BSc (Evolutionary Biology)

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 III

3 units - semester 1

2 hour lecture, 2 hour tutorial per week

Restriction: BSc (Marine Biology)

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 III

3 units - semester 2

2 hour seminar/discussion, 3-4 hours project/tutorial per week

Restriction: BSc (Sustainable Environments), BSc (Natural Resources)

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 III

3 units - semester 2

2 hour lecture per week, 4 hour practical per week

Restriction: BSc (Marine Biology)

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

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

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.

ENV BIOL 4001A/B
Honours Bachelor of 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

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

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.

ENV BIOL 4002A/B
Honours Botany and Geology

24 units - full year

Prerequisite: At least 6 units of both Botany and Geology at credit standard or better

Assessment: Thesis, seminar

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

The course allows students who have completed the prerequisites 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.

ENV BIOL 4010A/B
Hons Environmental Biology (B Nat Res Mgt)

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

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

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.

Environmental Studies

HONOURS

ENVT 4401A/B
Honours Environmental Studies

24 units - full year

Restriction: B.Environmental Studies (Honours) students only

Prerequisite: Bachelor of Environmental Studies or equivalent

Assessment: 15000-20000 word dissertation; essays/project work for each elective topic totalling 7000-9000 words per topic

Students wishing to take Honours Environmental Studies should consult Honours Coordinator prior to commencing Level II to ensure appropriate course choices are made in preparation for Honours

The course consists of two parts - the first, equivalent to 50% of the course, is a compulsory workshop on research methodology leading to submission of a dissertation. The second part consists of two coursework topics, each equivalent to 25% of the course each studied during a single-semester of lecture/seminars and tutorials/practicals. Details of the Honours coursework topics available each year are given in the Environmental Studies Honours Handbook.

In some circumstances Honours Environmental Studies can be studied part-time over two years or combined with Honours in another discipline.

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.

ADVANCED LEVEL

EUST 2112
Great Literary Texts of Western Civilization

3 units - semester 2

3 contact hours per week

Available for Non-Award Study

Prerequisite: 12 units Level I Humanities/Social Sciences

Incompatible: EUST 2004/3004

Assessment: oral presentation (appraisal of secondary literature) 15%, 1,000 word seminar paper 20%, 2,000 word essay 40%, exam 25%

This course explores a sample of the Great Literary Texts of Western Civilization. All the genres will be represented, so that students may appreciate the intricacies of prose, theatre and poetic language. The texts and themes will be varied and will include works by authors chosen from the following list: Sophocles, Homer, Dante, Rabelais, Shakespeare, Cervantes, Goethe, Stendhal, Dostoyevsky and Proust. The survey of Great Texts will cover the themes and the place in literary history of these writers, but also their innovations in terms of technique (form, texture of the language).

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 & Technology

LEVEL I

FOOD SC 1000RG
Introduction to Food Technology

3 units - semester 2

Average 6 hours per week including lectures, tutorials, &/or practicals

Assessment: Written exam, laboratory reports, assignments, report of industry visits

This course provides an overview of the food processing industry at local national and international levels. Emphasis is at the local (South Australian) level and covers many of the key areas of responsibility of a food technologist. A nationally accredited short course - Hygiene for Food Handlers - is included. Food processing techniques, particularly techniques for analysing and preserving food and processing meat, cereals, milk, fruit and vegetables are described. Management operations including total quality management, plant hygiene and sanitation, occupational health, safety and welfare, HACCP, ISO, and legislation are overviewed. The course includes industry tours and guest lectures by industry representatives.

FOOD SC 1001
Consumers, Food and Health

3 units - semester 1

2 hour lecture, 1 hour 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.

LEVEL II

FOOD SC 2500RG
Food Chemistry II

3 units - semester 2

2 hour lecture, 3 hour practical per week

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 2501RG
Food Engineering Principles II

3 units - semester 1

2 hour lecture, 4 hour practical per week

Assumed Knowledge: CHEM ENG 1001

Assessment: Assignment, reports, practical/theory test

Hydronic systems, refrigeration systems, cold storage, psychrometics, heat loads, heat sterilisation systems, boilers and heat exchange systems, compressed air and vacuum systems, food process engineerøng 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 apptication of food engineering principles.

FOOD SC 2502RG
Food Microbiology II

3 units - semester 2

2 hour lecture, 4 hour practical per week

Assessment: Exam, practical reports, presentation

This course aims to provide instruction in the general principles of food microbiology. It is assumed that students wifl 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; micro biological quality control, and quality schemes.

FOOD SC 2503RG
Food Processing Technology II

3 units - semester 1

2 hour lecture, 4 hour practical per week

Assumed Knowledge: FOOD SC 1000RG

Assessment: Exam, practical report, assignment

Food preservation and packaging. Preservation by fermentation, concentration, drying and dehydration and by chemical agents. Production of a range of foods using these manufacturing techniques and processes. Shelf life and nutritional consequences of preservation. Principles of flexible and rigid packaging of foods. Investigation of packaging types related to use with various food systems and packaging permeability. Passive and active packaging including modified atmosphere packaging and controlled atmosphere storage of foods. Reuse, disposability and printing of packaging. Labelling techniques and legislative requirements for labelling food and beverage products

FOOD SC 2504RG
Sensory Evaluation of Foods II

3 units - semester 2

2 hour lecture, 4 hour practical per week

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.

LEVEL III

FOOD SC 3011RG
Food Chemistry

3 units - semester 1

2 hour lecture, 3 hour practical per week

Assumed Knowledge: BIOCHEM 2106WT

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 III

3 units - semester 2

2 hour lecture, 4 hour practical per week

Assumed Knowledge: FOOD SC 2105RG

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

Contact with supervisor by arrangement

Assessment: Thesis, supervisor mark, final presentation

A research project on a food related topic.

FOOD SC 3021RG
Food Product Development III

3 units - semester 1

2 hour lecture, 4 hour practical per week

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 III

3 units - semester 2

2 hour lecture, 4 hour practical per week

Assumed Knowledge: FOOD SC 2003RG

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 III

3 units - semester 2

2 hour lecture, 4 hour practical per week

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 the 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 tot he 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.

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 equivalent)

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.

ADVANCED LEVEL

FREN 2201
French IIA: Language

3 units - semester 1

3 contact hours per week

Available for Non-Award Study

Prerequisite: FREN 1003

Incompatible: FREN 1012 & FREN 2002

Assessment: Regular tests, assignments, language exam

This course builds on and consolidates the language skills acquired in the first year beginners' course. This will involve the development of written language skills - composition, comprehension, translation, grammar - and spoken language skills - speaking, pronunciation, listening.

FREN 2202
French IIB: Language

3 units - semester 2

3 contact hours per week

Available for Non-Award Study

Prerequisite: FREN 2201

Incompatible: FREN 1012, FREN 2211 or FREN 2003

Assessment: Regular tests, assignments, language exam

This course continues the intensive language training undertaken in French IIA. It similarly aims to develop written language skills - composition, comprehension, translation, grammar - and spoken language skills - speaking, listening, pronunciation.

FREN 2203
French IIA: Culture

3 units - semester 1

3 contact hours per week

Available for Non-Award Study

Prerequisite: FREN 1003

Incompatible: FREN 1012

Assessment: Oral presentation, essay, test

The aim of this course is to develop a deeper understanding and a critical appreciation of France's rich cultural heritage through the study of texts and other cultural artefacts. The course is also designed to develop linguistic skills, taking into account the problems associated with the apprenticeship of reading and analysis in French. Students completing this course will therefore benefit from enhanced reading skills, vocabulary acquisition and writing skills as well as speaking skills. In 2009, this course will focus on contemporary French culture and society (La France contemporaine).

FREN 2204
French IIB: Culture

3 units - semester 2

3 contact hours per week

Available for Non-Award Study

Prerequisite: FREN 1003

Incompatible: FREN 1012

Assessment: Class presentation, class exercises, test, essay

The aim of this course is to develop a deeper understanding and a critical appreciation of France's rich cultural heritage through the study of texts and other cultural artefacts. The course is also designed to develop linguistic skills, taking into account the problems associated with the apprenticeship of reading and analysis in French. Students completing this course will therefore benefit from enhanced reading skills, vocabulary acquisition and writing skills. In 2009, the topic for study

is Varietes du francais (the history of the French language and its varieties in use throughout the world today).

FREN 2211
French IISA: Language

3 units - semester 1
3 contact hours per week
Available for Non-Award Study
Prerequisite: FREN 1012
Incompatible: FREN 1003 or FREN 2011
Assessment: Regular tests, assignments, language exam

Language training in spoken and written French builds on the skills and knowledge acquired in first year. The course will include grammar exercises, written expression, oral expression, discourse analysis and translation.

FREN 2212
French IISB: Language

3 units - semester 2
3 contact hours per week
Prerequisite: FREN 2211
Incompatible: FREN 1003, FREN 2201 or FREN 2012
Assessment: Regular tests, assignments, language exam

Language training in spoken and written French builds on the skills and knowledge acquired in French IISA. The course will include grammar exercises, written expression, oral expression, discourse analysis and translation.

FREN 2213
French IISA: Culture

3 units - semester 1
3 contact hours per week
Available for Non-Award Study
Prerequisite: FREN 1012
Incompatible: FREN 1003
Assessment: Class exercises, essays, class presentations

The aim of this course is to develop a deeper understanding and a critical appreciation of France's rich cultural heritage through the study of texts and other cultural artefacts. The course is also designed to develop linguistic skills, particularly reading and writing skills, but also vocabulary acquisition and speaking skills. In 2009 this course will be devoted to the study of French utopian fiction (see French Discipline handbook for more details).

FREN 2214
French IISB: Culture

3 units - semester 2
4 contact hours per week
Available for Non-Award Study
Prerequisite: FREN 1012
Incompatible: FREN 1003 or FREN 2201
Assessment: Class exercises, essays, class presentations, exam

The aim of this course is to develop a deeper understanding and a critical appreciation of France's rich cultural heritage through the study of texts and other cultural artefacts. The course is also designed to develop linguistic skills, particularly reading and writing skills, but also vocabulary acquisition and speaking skills. In 2009 this course will be devoted to the study of New Millenium Cinema (see French Discipline handbook for more details).

LEVEL III

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.

FREN 3201
French IIIA: Language

3 units - semester 1
3 contact hours per week
Available for Non-Award Study
Prerequisite: 15 units in French including FREN 2202
Incompatible: FREN 2212 or FREN 3002
Assessment: Regular tests, assignments, language exam

Language training in spoken and written French builds on the skills and knowledge acquired in second year (beginners' stream). The course will include grammar exercises, written expression, oral expression, discourse analysis and translation.

FREN 3202
French IIIB: Language

3 units - semester 2
3 contact hours per week
Available for Non-Award Study
Prerequisite: FREN 3201
Incompatible: FREN 2212, FREN 3211 or FREN 3003
Assessment: Regular tests, assignments, language exam

Language training in spoken and written French builds on the skills and knowledge acquired in French IIIA. The course will include grammar exercises, written expression, oral expression, discourse analysis and translation.

FREN 3203
French IIIA: Culture

3 units - semester 1

3 contact hours per week

Available for Non-Award Study

Prerequisite: 15 units in French including FREN 2202

Incompatible: FREN 2212

Assessment:Class exercises, essays, class presentations

The aim of this course is to develop a deeper understanding and a critical appreciation of France's rich cultural heritage through the study of texts and other cultural artefacts. The course is also designed to develop linguistic skills, particularly reading and writing skills, but also vocabulary acquisition and speaking skills. This course will be devoted to the study of French utopian fiction (see French Discipline handbook for more details).

FREN 3204
French IIIB: Culture

3 units - semester 2

3 contact hours per week

Available for Non-Award Study

Prerequisite: 15 units in French including FREN 2202

Incompatible: FREN 2212

Assessment: Class exercises, essays, class presentations, exam

The aim of this course is to develop a deeper understanding and a critical appreciation of France's rich cultural heritage through the study of texts and other cultural artefacts. The course is also designed to develop linguistic skills, particularly reading and writing skills, but also vocabulary acquisition and speaking skills. This course will be devoted to the study of New Millenium Cinema (see French Discipline handbook for more details).

FREN 3211
French IIISA: Language

3 units - semester 1

3 contact hours per week

Available for Non-Award Study

Prerequisite: 15 units in French including FREN 2212

Incompatible: FREN 2202 or FREN 3011

Assessment: Regular tests, assignments, language exam

This course gives tuition in stylistics, advanced grammar and syntax, through regular assignments and class exercises (oral and written). It also seeks to develop research skills for language related questions.

FREN 3212
French IIISB: Language

3 units - semester 2

3 contact hours per week

Available for Non-Award Study

Prerequisite: FREN 3211

Incompatible: FREN 2202 or FREN 3201 and FREN 3012

Assessment: Regular tests, assignments, language exam

This course builds on the work undertaken in French IIISA and gives tuition in stylistics, advanced grammar and syntax, through regular assignments and class exercises (oral and written). It also seeks to develop research skills for language related questions.

FREN 3213
French IIISA: Culture

3 units - semester 1

4 contact hours per week

Available for Non-Award Study

Prerequisite: 15 units in French including FREN 2212 and FREN 2213 or FREN 2214

Incompatible: FREN 2202

Assessment: Participation and oral presentation 20%, 1,000 word journal 20%, 1,500 word essay 30%, exam 30%

The aim of this course is to develop a deeper understanding and a critical appreciation of France's rich cultural heritage through the study of texts and other cultural artefacts. The course is also designed to develop linguistic skills, particularly reading and writing skills, but also vocabulary acquisition and speaking skills. This course will be devoted to the study of Folie et desastre (20th century French novel) - see French Discipline handbook for more details.

FREN 3214
French IIISB: Culture

3 units - semester 2

3 contact hours per week

Available for Non-Award Study

Prerequisite: 15 units in French including FREN 2212

Incompatible: FREN 2202 or FREN 3201

Assessment: Class exercises, essay, class presentation, exam

The aim of this course is to develop a deeper understanding and a critical appreciation of France's rich cultural heritage through the study of texts and other cultural artefacts. The course is also designed to develop linguistic skills, particularly reading and writing skills, but also vocabulary acquisition and speaking skills. This course will be devoted to the topic: Du Texte a l'ecran (see French Discipline handbook for more details).

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 & Social inquiry

LEVEL I

GWSI 1001/1001EX
Social Sciences in Australia

3 units - semester 1

3 contact hours per week

Available for Non-Award Study

Assessment: 1,000 word short, critical assignment 25%, 3,000 word essay 45%, tutorial participation 15%, tutorial presentation 15%

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 1003/1003EX
Gender, Work and Society

3 units - semester 2

3 contact hours per week

Available for Non-Award Study

Assessment: Essays, other written work

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 genders 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, gender-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 recent debates about the Industrial Relations system, the 'work-life collision' and the issue of paid maternity leave.

GWSI 1004
Introduction to Gender Studies

3 units - semester 1

3 contact hours per week

Available for Non-Award Study

Assessment: 1,500 word essay 25%, 2,500 word major essay 50%, tutorial presentation 10%, tutorial participation 15%

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.

ADVANCED LEVEL

GWSI 2102
Gender, Bodies and Health

3 units - semester 2

3 contact hours per week

Available for Non-Award Study

Prerequisite: 12 units Level I Humanities/Social Sciences

Incompatible: GWSI 2004/3004

Assessment: 1,500 word essay 40%, 2,000 word major research report 40%, plus associated practical research tasks (formative) 1,000 words 20%

This course explores the social and historical context of understandings of 'the body', gender and health. In particular it investigates the role that the concept of biology and biological difference plays in the construction of gender, and of health/illness. The course presents a range of understandings of embodiment and their relationship to gender. Topics will include the exploration of changing understandings of reproduction, the immune system, heredity and psychosomosis and in doing so will focus on a number of topical health issues such as, infertility, impotence, cancer, obesity, and anxiety disorders. The course complements studies in public health, psychology and social policy. It draws from the disciplines of sociology, anthropology and the history and philosophy of science. It develops qualitative social research skills as an applied social science course.

GWSI 2105/2105EX
Gender and Race in a Postcolonial World

3 units - semester 1

3 contact hours per week

Available for Non-Award Study

Prerequisite: 12 units Level I Humanities/Social Sciences

Incompatible: GWSI 2005/3005

Assessment: 2,500 word essay 40%, 3,500 word research project 50%, tutorial participation 10%

This course examines the issues of gender and race which emerge in the encounter between Western traditions of thought and non-Western locations and cultures. Central questions will be: How has colonial history influenced concepts of race and gender? How do Western concepts of race and gender need to be rethought in relation to the experiences and ideas of 'other' cultures? What criticisms of white middle-class Western feminist thought have been offered by women from other geographical or political locations? Do contemporary theories of masculinity reflect these debates? How do women, men and transgendered people negotiate with local and global constructions of gendered and/or national identity? The emphasis throughout the course will be on the ways in which cultural and gender identities are never encountered separately but are always constructed in relation to one another. Some topics to be examined will include: human rights, women's rights, development, masculinities and sexualities. Case studies may include material from Asia, Africa, the Pacific, the Middle East and Australia.

GWSI 2107/2107EX
Media and Social Change

3 units - semester 1

3 contact hours per week

Available for Non-Award Study

Prerequisite: 12 units Level I Humanities/Social Sciences

Incompatible: GWSI 2014/3014

Assessment: Critical analysis of media and/or political campaigning techniques: 1 case study to be presented in tutorial plus analytical workbook covering 4 examples (2,000-2,500 words) 50%, essay (3,000-3,500 words) 40%, tutorial participation 10%

The media (both mainstream and alternative media) is increasingly central to how political parties, individuals and social movements campaign for social and political change. From human rights to labour rights, from climate change to saving whales; technologies such as digital video, mobile phones and the internet are vital to communicating the desirability of change, building alliances and enabling action. Established political parties are likewise increasingly aware of the value of alternative media in reaching citizens who are disinterested in traditional political campaigning and reporting of politics.

Students will explore a range of media representations of social and political campaigns including both traditional news media and alternative media. Using a case study approach students will become familiar with media strategies pursued by various social movements and established political parties in communicating with their constituencies, promoting their concerns, and organising campaigns. Issues such as adoption of public relations strategies by social movements, political bias within established media, concentration of ownership of established media, audience use of various media, limitations and possibilities of alternative media, the development of cyber-actions, the reliability of alternative media as a source of information will be amongst those considered within the course.

GWSI 2108/2108EX
Popular Media and Society

3 units - semester 2

3 contact hours per week

Available for Non-Award Study

Prerequisite: 12 units Level I Humanities/Social Sciences

Incompatible: GWSI 2008/3008

Assessment: 1,000 word critical reading/viewing log 25%, 1,200 word critical analysis: theories of individual & society 25%, 3,500 word essay: representations of social issues in film or other popular media 40%, class participation 10%

Films are popular texts and therefore reach mass audiences in ways that academic social science and gender theory writings do not. This course is not a film theory course, but rather uses films and other popular media texts (such as television mini-series) to ask questions about representations of inequality and difference in Australian society. The course explores the capacities and limitations of popular texts, including films, to explore structures which model, and provoke debate around gender, sexuality, race, ethnicity and class in Australian society. Do films and other popular media narratives offer insights into the experience of social inequality in ways that academic research rarely achieves? Are some issues and experiences better served by popular and/or fictionalised treatments than others? What are the limitations of certain popular representations of inequality in building audience knowledge and understanding? What are some of the debates that have arisen in response to some Australian films or television mini-series?

GWSI 2110
Social Research

3 units - semester 2

3 contact hours per week

Prerequisite: 12 units Level I Humanities/Social Sciences

Incompatible: GWSI 2015/3015

Assessment: 1,500 word short, critical assignment 20%, 4,500 word individual research project 50%, tutorial participation 15%, in-class group activities 15%

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 in conducting 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 developing and conducting a survey, interview and participant observation, focus groups, content analysis and discourse analysis. Students will also be taught about ethical considerations in social research as well as how such skills are increasingly and widely applicable to the new world of work.

CAPSTONE

GWSI 3102
Gender, Culture & Society

3 units - semester 1 (Not offered until 2010)

2 hour lecture, 1 tutorial per week, plus film viewing

Prerequisite: 8 units Level I Humanities/Social Sciences

Incompatible: Film, Feminism and Psychoanalysis

Assessment: Short applied paper, analysis of film technique in a flim sequence 600-900 words 20%, tutorial presentation & 1200 word paper 30%, tutorial participating 10%, 5000 word essay 40%

Starting with 'Pretty Woman' and moving to cyberspace of VNS Matric, the course explores spectacles of women in the cinema from classic Hollywood formulas to the intersubjective domains of cybersace. The course introduces students to film grammar, languages and techniqes to enable them to 'read' and perform close analysis of film. It also introduces feminist and psychoanalytic film theory; considers theories of the gaze and fluid spectator positionings; takes up nationalist and post-colonial imaginings in contemporary cinema; studies the genre of flim noir (in particular the figure of the femme fatale and femme castratice); considers concetps like abjection and seduction in relation to film; examines Aboriginal avant garde experimental film as it challenges national and racial mythologies of the past; and explores the possibilities for enacting postgendered subjectivities in cybsespace. Films to be studies include Pretty Woman,Thelma and Louise, Don't Call me Girlie (documentary), Picnic at Hanging Rock, Aliens, Basic Instinct, The Last Seduction, Bad Boy Bubby, Jedda, Night Cries, and Tomb Raider (subject to revision).

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. 6,500-7,500 words 25% each, 15,000-20,000 word thesis 50%

Students wishing to take Honours in Gender, Work and Social Inquiry should consult the Honours Coordinator prior to commencing Advanced level studies to ensure appropriate course choices are made in preparation for Honours.

The Gender, Work and Social Inquiry Honours program consists of two seminar courses and an Honours thesis of 15,000-20,000 words. 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 Honours in Gender, Work and Social Inquiry 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: B.Health Sciences & B.Medicine & B.Surgery 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. The will also gain an understanding of issues connected to identity and cultural diversity as they relate to developments in the relationship between the health professional and the indigenous subject. Furthermore, students will complete the elective with an increased understanding of some of the underlying historical, social and cultural issues, and their relationship to health and wellbeing as defined by Indigenous people.

This course includes a field trip within South Australia, during which student will interact with local Indigenous people, be exposed to Indigenous art, music and culture, and visit Indigenous health services

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.

Syllabus details to be advised.

Genetics

LEVEL II

GENETICS 2102
Genetics IIA (Molecular Biology)

3 units - semester 1

2 x 1 hour lectures, 2 hour tutorial per week, 4 hour practical per fortnight

Restriction: BSc (Molecular Biology)

Prerequisite: BIOLOGY 1101

Incompatible: GENETICS 2510

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 GENETICS 2100.

GENETICS 2107
Genetics IIA (Med Surg)

3 units - semester 1

2 x 1 hour lectures, 2 hour tutorial per week

Restriction: Bachelor of Medicine and Surgery

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 2202
Genetics IIB (Molecular Biology)

3 units - semester 2

2 x 1 hour lectures, 2 hour tutorial per week, 4 hour practical per fortnight

Restriction: BSc (Molecular Biology)

Prerequisite: BIOLOGY 1101

Assumed Knowledge: GENETICS 2102

Incompatible: GENETICS 2520

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 2207
Genetics IIB (Med Surg)

3 units - semester 2

2 x 1 hour lectures, 2 hour tutorial per week

Restriction: Bachelor of Medicine and Surgery

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 2510
Genetics IIA: Foundation of Genetics

3 units - semester 1

2 x 1 hour lectures, 2 hour tutorial per week, 4 hour practical per fortnight

Available for Non-Award Study

Prerequisite: BIOLOGY 1101 and BIOLOGY 1201 or 1202 - students enrolled in BIOLOGY 1101 must contact course coordinator re enrolment

Incompatible: GENETICS 2102 and GENETICS 2511

Assessment: Exam, tutorial and practical component assessment

Genetics IIA 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 genetic linkage and recombination, and discuss mutations and the connection between genotype and phenotype. Further topics include the 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 about enrolling in these practicals.

GENETICS 2511
Genetics IIA: (Biomedical Science)

3 units - semester 1

2 x 1 hour lectures, 2 hour tutorial per week, 4 hour practical per fortnight

Restriction: BSc (Biomedical Science)

Prerequisite: BIOLOGY 1101 and BIOLOGY 1201

Incompatible: GENETICS 2510

Assessment: Exam, tutorial and practical component assessment

Genetics IIA (Biomed.) has the same lecture program as Genetics IIA: Foundation of Genetics. It 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 genetic linkage and recombination, and discuss mutations and the connection

between genotype and phenotype. Further topics include the 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 about enrolling in these practicals.

GENETICS 2520
Genetics IIB: Function and Diversity of Genomes

3 units - semester 2

2 x 1 hour lectures, 2 hour tutorial per week, 4 hour practical per fortnight

Available for Non-Award Study

Prerequisite: BIOLOGY 1101 and BIOLOGY 1201 or BIOLOGY 1202. Students who enrolled in BIOLOGY 1101 only should contact the course coordinator to request permission to enrol

Assumed Knowledge: GENETICS 2510

Incompatible: GENETICS 2202 and GENETICS 2521

Assessment: Exam, tutorial and practical component assessment

Genetics IIB aims to build an appreciation of the power of genetic analysis. Building on the foundation concepts developed in Genetics IIA, topics include concepts in human genetics and genetic dissection of developmental processes. Genetics IIB also provides a foundation to modern genetics analysis of evolutionary processes, including 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 about enrolling in these practicals.

GENETICS 2521
Genetics IIB: (Biomedical Science)

3 units - semester 2

2 x 1 hour lectures, 2 hour workshop, 2 hour tutorial per week

Restriction: BSc (Biomedical Science)

Prerequisite: BIOLOGY 1101 and BIOLOGY 1201 or BIOLOGY 1202

Assumed Knowledge: GENETICS 2511

Incompatible: GENETICS 2520

Assessment: Exam, tutorial and workshop component assessment

Genetics IIB (Biomed.) has the same lecture program as Genetics IIB: Function and Diversity of Genomes. It aims to build an appreciation of the power of genetic analysis. Building on the foundation concepts developed in Genetics IIA, topics include concepts in human genetics and genetic dissection of developmental processes. Genetics IIB also provides a foundation to modern genetics analysis of evolutionary processes, including the genetics of populations.

The workshop component is unique to Genetics IIB (Biomed.) and focusses on combining researching the scientific literature with both written and oral communication skills. The mix of individual and group assignments research the cloning of the gene causing particular human genetic diseases.

LEVEL III

GENETICS 3110
Advanced Molecular Biology IIIA (Genetics)

6 units - semester 1

3 x 1 hour lectures per week, 1 hour tutorial & 3 x 4 hour practicals per fortnight

Restriction: BSc (Molecular Biology)

Prerequisite: BIOCHEM 2510 & 2520, GENETICS 2102 & 2202

Incompatible: BIOCHEM 3000 & 3125, GENETICS 3111

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 III

6 units - semester 1

3 x 1 hour lectures per week, 1 hour tutorial & 3 x 4 hour practicals per fortnight

Available for Non-Award Study

Prerequisite: GENETICS 2510 and GENETICS 2520 or Equiv

Incompatible: GENETICS 3110

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

6 x 1 hour lectures, 1 hour tutorial, 3 x 4 hour practicals per fortnight

Restriction: BSc (Molecular Biology)

Prerequisite: BIOCHEM 2510, BIOCHEM 2520, GENETICS 2102 and GENETICS 2202

Assumed Knowledge: GENETICS 3110

Incompatible: BIOCHEM 3225 and 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 & Human Developmental Genetics III

6 units - semester 2

6 x 1 hour lectures, 1 hour tutorial, 3 x 4 hour practicals per fortnight

Available for Non-Award Study

Prerequisite: GENETICS 2510 and GENETICS 2520 or Equiv

Assumed Knowledge: GENETICS 3111

Incompatible: GENETICS 3210

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 & Hum Devel Genetics (Biomed) III

6 units - semester 2

6 x 1 hour lectures, 1 hour tutorial, 3 x 4 hour practicals per fortnight

Restriction: BSc (Biomedical Science)

Prerequisite: GENETICS 2511 and GENETICS 2521 or Equiv

Incompatible: GENETICS 3211

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/institutions who have passed suitable Level III courses may be considered

Assessment: Details available from School

Intending Honours candidates should consult the Head of Genetics during the final year of the B.Sc.

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.

Geographical & Environmental Studies

LEVEL I

GEST 1001
Globalisation, Justice and a Crowded Planet

3 units - semester 2

3 contact hours per week, fieldwork

Available for Non-Award Study

Incompatible: GEOG 1004

Assessment: Tutorial participation and exercises 20%, workshops 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

Available for Non-Award Study

Assessment: Fieldwork, tutorial and workshop exercises 30%, essay 30%, exam 30%, class participation 10% - 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

Restriction: Not available to B Economics, B Finance or B Commerce students

Available for Non-Award Study

Assessment: Essay 40%, tutorial participation and exercises 20%, end-of-semester exam 40%

This course is a one-semesterised introduction to economic principles with their application to contemporary social issues including environmental pollution. The course introduces important economic concepts, thoughts and philosophy that govern everyday decision-making by consumers, firms and governments, such as opportunity cost, marginal analysis, and economic growth and stability. With graphical and numerical aids, the course demonstrates the application of the economic decision-making principles to private and public private issues. The course explores a variety of micro- and macroeconomic topics including prisoner's dilemma, unemployment, inflation, income distribution, fiscal policy and monetary policy. Newspapers, novels, movies and dramas are often quoted to communicate the subject matter effectively.

GEST 1004
Population and Environment in Australia

3 units - semester 1

3 contact hours per week

Available for Non-Award Study

Assessment: 500 word tutorial paper 15%, tutorial participation 10%, 2,000 word essay 35%, exam 40%

Population and Environment tend to be treated quite separately in Australia yet there are strong and important two-way relationships between them. This course focuses on these interactions and explores their implications for Australia's future. The course begins with a consideration of the theoretical linkages between population and environment and some international dimensions of the relationship before focusing specifically on the Australian context. The contemporary dynamics of population growth, composition and spatial distribution are examined and analysed and the role environmental factors have had in shaping them is explored. Equally too, the impact of population on environment is examined.The constraints that environmental factors, especially water, have placed on the development of the Australian population are investigated. A particular focus is the changing spatial distribution of the population with issues like urbanisation, 'sea change' and rural depopulation and their inter-relationship with the environment being explored. An important focus is on internal and international migration's influence in changing the population size, structure and distribution and how it affects, and is affected by, the environment. Indigenous Australians and their special relationship with the environment is discussed separately. The course then focuses on the issue of climate change and how this is likely to influence Australia's population. There is a strong focus on policy in the latter part of the course and existing policies at national, state and local levels which impinge upon the population-environment relationship are examined. The necessity for developing policies which integrate demographic, social and economic concerns with environment considerations is stressed.

ADVANCED LEVEL

GEST 2029
Introductory Geographic Information Systems

3 units - semester 1

3 contact hours per week

Prerequisite: 12 units Level I Humanities/Social Sciences or other Faculty

Incompatible: GEST 2022/3022

Assessment: Practical report and assignments 60%, exam 40%

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 2030
Managing Coastal Environments

3 units - semester 2

2 lectures, 1 seminar per week, fieldwork

Available for Non-Award Study

Prerequisite: 12 units Level I Humanities/Social Sciences or other Faculty

Incompatible: GEST 2001/3001

Assessment: Assignment 30%, field report 20%, seminar 30%, final paper 20%

This course examines selected strategies for managing coastal environments around the world, although the main focus is the Australian coast. Where appropriate, local examples are used in conjunction with local coastal fieldwork. The course provides an overview of various coastal processes as a background to an understanding of coastal management issues. A major focus of the course is on recent coastal management initiatives in Australia by both the Commonwealth Government and the State Governments.

GEST 2032
Social Science Techniques

3 units - semester 1

2 lectures and 1 workshop per week

Prerequisite: 12 units Level I Humanities/Social Sciences or other Faculty

Incompatible: SOCI 2002 and GEST 2100

Assessment: Workshop participation and exercises, 3 modules of 1200 words each 60%, end-of-semester exam, 3 hour exam 40%

The course aims to provide students with a perspective on the role of social sciences within contemporary society, especially in Australia, and teach a number of basic skills which are expected of professional social scientists in the contemporary world. These skills are an important acquisition for students, whether they seek to gain employment in the public and private sectors or to proceed to higher level research within their chosen social discipline. Students of this course should emerge from it with a sound background in the main sources of social science information and data available in Australia, and the major methods of analysing information from these sources. Computer workshops provide skills in analysis. No prior background or knowledge in computing, mathematics or statistics is assumed. The aim is to teach students a range of techniques of analysis and how to interpret the results.

GEST 2033
Global International Migration

3 units - semester 2

3 contact hours per week

Available for Non-Award Study

Prerequisite: 12 units Level I Humanities/Social Sciences or other Faculty

Incompatible: GEST 2023/3023

Assessment:Tutorial participation 10%, tutorial paper 20%, major essay 30%, end-of-semester exam 40%

At no stage in human history has there been higher mobility between nations and this has important implications for economic, social, demographic, environmental, political and cultural change. This course is designed to introduce students to the scale, composition, characteristics, causes, effects and implications of evolving patterns of population movement between nations. It focuses especially on the relationship between migration on the one hand and economic development, environmental issues and social change on the other, arguing that the relationship is complex and multi-directional. It introduces the concept of diaspora and investigates its increasing significance. While the focus is on global patterns and issues there is a concentration on Australia and the Asia Pacific region to illustrate the main emerging patterns. A number of theories which have been put forward to explain migration are investigated and assessed. There is a particular concentration on the role of policy with respect to both the migration process and the reception of migrants in destination countries. Migration is a strongly gendered process and the migration of women, its distinct causes and implications are examined. Student migration is another topic of interest that will be examined in the course.

GEST 2034
Resource Scarcity and Allocation

3 units - semester 1

3 contact hours per week

Available for Non-Award Study

Prerequisite: 12 units Level I Humanities/Social Sciences or other Faculty

Incompatible: GEST 2021/3021

Assessment: Essays 50%, tutorial participation and exercises 10%, end-of-semester exam 40%

This course is an introduction to natural resource economics. The course examines how society makes decisions about the allocation of scarce resources when human desires for the use of the resources are limitless. Efficiency and equity are the key decision criteria that are employed when natural resource (re)allocation policies, projects or plans are evaluated. The primary concern of the course is over the socially, intertemporally efficient allocation of non-renewable and renewable natural resources, including non-fuel minerals, energy resources, water resources, fisheries, forests and wildlife, in an Australian context. The course also considers social

justice, and environmental or ecological sustainability in the use of natual resources. The basic economic concepts and principles (e.g. opportunity cost, marginal analysis and property rights) that serve as a tool to analyse and evaluate resource allocation options are discussed in the first few weeks. Basic quantitative skills of Year 10 are assumed.

GEST 2035
Urban Futures

3 units - semester 1

3 contact hours per week

Available for Non-Award Study

Prerequisite: 12 units Level I Humanities/Social Sciences or other Faculty

Incompatible: GEST 2020/3020

Assessment: Tutorial/field trip participation and exercises 30%, major essay 30%, take home exam 40%

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 2037
Biogeography & Biodiversity Conservation

3 units - semester 2

4 contact hours per week

Available for Non-Award Study

Prerequisite: 12 units Level I Humanities/Social Sciences or other Faculty

Incompatible: GEST 2011/3011

Assessment: Exam 40%, field report 40%, tutorial exercises 20%

This course provides an introduction to the spatial patterns of plants and animals in relation to the physical environment and anthropogenic forces. 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 biogeographic regions. The impacts that humans are having on global biogeography in modern times will also be examined. Overlying themes will be the conservation of biodiversity at global, regional and local scales and the growing importance of anthropogenic processes for biodiversity conservation. The material presented in lectures will be supported by weekly workshop exercises. The field trip involves a survey of vegetation-environment relations in a context local to the Adelaide-Mt Lofty Ranges, which will inform a report writing exercise.

GEST 2039
Environmental Management

3 units - semester 1

3 contact hours per week

Available for Non-Award Study

Prerequisite: 12 units Level I Humanities/Social Sciences or other Faculty

Incompatible: GEST 2002/3002

Assessment: Tutorial participation and exercises 20%, 2,000 word essay 40%, exam 40%

The course will provide a critical survey of the contemporary field of environmental policy, planning and management in Australian and international contexts. The course is centrally concerned with understanding deliberate efforts to translate environmental knowledge into action in order to achieve particular outcomes in the way landscapes, societies and/or natural ecosystems are used and managed. It will also consider how the objectives for land and resource use are shaped, fashioned and contested in democratic and non-democratic settings. The course will introduce students to the dominant management models that have been applied historically. This work will set the scene for an analysis of contemporary approaches to environmental policy making, planning and management. The course will critically examine contemporary thinking on these environmental themes including: sustainable use practices, political-ecology, decentralised environmental management, NGO and community-based approaches, social learning, and regional and urban planning. A feature of the course's examination of contemporary approaches will be in-depth critical analyses of prominent cases of environmental management, including Regional Forest Agreements and the Murray Darling Basin Authority in the Australian context, and the emerging international environmental challenges for climate change adaptation, agro-ecosystems, biodiversity conservation and megacities.

GEST 2041
Environment and Development

3 units - semester 1

3 contact hours per week

Available for Non-Award Study

Prerequisite: 12 units Level I Humanities/Social Sciences or other Faculty

Incompatible: GEST 2025/3025

Assessment: Essay or research report 40%, tutorial presentation 15%, tutorial preparation and participation 15%, take home exam 30%

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 2042
Climate Change and Catchment Management

3 units - semester 2

3 contact hours per week

Available for Non-Award Study

Prerequisite: 12 units Level I Humanities/Social Sciences or other Faculty

Incompatible: GEST 2026/3026

Assessment: Workshop & 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. 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 Intergovernmental Panel on Climate Change. The impacts of climate change on both society and the physical 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 adapt to the 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 2200
Environmental Policy and Management Internship

6 units - semester 2

3 contact hours per week (except during main work experience)

Restriction: B Env Policy & Mgt and B Env Studies students only

Quota will apply

Prerequisite: 12 units Advanced Level Humanities/Social Sciences including average credit level pass in GEST 2039 (GEST 2002 prior to 2009), and all other Advanced Level GEST 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 or, undertake a two week block of concentrated interaction, 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 can choose or 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.

CAPSTONE

GEST 3102
Geography Matters

3 units - semester 2 (Not offered until 2010)

1 lecture and 2 workshops per week, field Trip.

Assessment: Field trip report 10%, seminar 20%, research report 70%

This is the capstone course for the BA with a major in Geography and Environmental Studies. The course provides students with an opportunity to apply (and further develop) their geography and environmental analytic skills by investigating a practical problem in the field. The centrepiece of the course is a field trip to the area under investigation. Each year, a practical problem or issue is selected. These field problems all require analysis from both social science and physical geography perspectives.

Students form groups and are tasked with investigating and analysing the issue and recommending possible responses. Fieldwork is underpinned by a series of lectures which provide major philosophical and theoretical approaches to geographical and environmental problems. The analysis of data collected in fieldwork and the preparation of group reports is supported by a series of workshops.

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

Students wishing to take Honours Geographical & Environmental Policy & Management should consult the Honours Coordinator prior to commencing Advanced Level studies

The course consists of two parts: a coursework component and a research component, each worth 50%. In the coursework component, students complete a compulsory unit on research methods and theory. Students can choose from a range of electives which reflect more specialist areas of study in Geography, Population and Environment. 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 x 1 hour lectures, 3 hour practical per week, field work

Incompatible: C&ENVENG 1007, GEOLOGY 1104, GEOLOGY 2005 and 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 I

3 units - semester 1

3 x 1 hour lectures, 3 hour practical per week, field work

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 I

3 units - semester 1

3 x 1 hour lectures, 3 hour practical per week, some field work

Restriction: BE (Civil & Struct), BE (Civil & Env), BE (Mining)

Incompatible: GEOLOGY 1100

Assessment: Theory exam, practical work

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 x 1 hour lectures, 3 hour practical per week

Restriction: BSc (Ag.Sc), BSc (NR.Mgt.), BSc (Viti.) and any program outside Faculty of Sciences

Incompatible: GEOLOGY 1103 and 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 2500
Sedimentary Geology II

3 units - semester 1

2 x 1 hour lectures per week, 10 x 4 hour practicals per semester, 8 hour field excursion

Available for Non-Award Study

Assumed Knowledge: GEOLOGY 1100 or GEOLOGY 1103

Assessment: Exam, practicals, field report

Sediments, both ancient and recent, cover much of the earth's surface. Sediments are immensely important economically, as the host of petroleum and mineral deposits, and to the environment, as aquifers, sinks for contaminants, and the home to a large part of the biosphere. The sedimentary record is also the ultimate repository of the annals of Earth's history. By deciphering the clues held in this record, geologists have reconstructed the history of the earth surface environment, traced the evolution of life, and determined past climate changes. The sedimentology component of this course will provide a broad background to 1) the description of sedimentary rocks and recognition of sedimentary structures, 2) processes by which sediments are transported, deposited, and converted into rocks, 3) the tectonic setting and features of environments in which sediments accumulate, and 4) use of stratigraphy as a tool in Earth history. The Paleontology component of this course will be an introduction to the fossil record, with an emphasis on the patterns of evolution during the Phanerozoic and the application of biostratigraphy.

GEOLOGY 2501
Structural Geology II

3 units - semester 1

2 x 1 hour lecture per week, 6 x 4 hour practicals per semester, 8 day field trip

Available for Non-Award Study

Corequisite: GEOLOGY 2500

Assumed Knowledge: GEOLOGY 1100 or GEOLOGY 1103

Assessment: Exam, practicals, field reports

How does the Earth respond to applied force? This course looks at how rocks deform, and how we can recognise and use structures within rocks to determine ancient magnitudes and orientations of stress fields. Students will be introduced to techniques of recording and analysing structural data and taught how to map rock sequences in the field and interrogate a region to determine how it formed and what has happened to the area since formation.

GEOLOGY 2502
Igneous and Metamorphic Geology II

3 units - semester 2

3 x 1 hour lectures, 4 hour practical per week, 6 hour field excursion

Prerequisite: GEOLOGY 1100 or GEOLOGY 1103

Assessment: Practical work, exam

Mineralogy (mineral chemistry, classification and structure), minimum optical mineralogy and crystallography required to use the petrographic microscope. Petrography, mineralogy, classification of igneous and metamorphic rocks. Introduction to methods of rock and mineral analysis (XRD, XRF, electron microprobe).

GEOLOGY 2503
Landscape Processes and Environments II

3 units - semester 2

2 x 1 hour lecturek, 4 hour practical per week, 6 day field trip

Available for Non-Award Study

Assumed Knowledge: GEOLOGY 1100 or GEOLOGY 1103

Assessment: Field reports, practical work

This course will develop skills and knowledge in 'reading' and understanding landscapes and the associated Earth materials 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, sediments, indurated regolith as well as how they interact with other components of the lithosphere, biosphere and hydrosphere. An emphasis will be on describing these materials in the field and collecting field data and its later presentation and interpretation. A field trip to arid zone landscapes in the Fowlers Gap - 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. This can be related to both environmental and mineral exploration applications.

GEOLOGY 2504
Economic & Mine Geology II

3 units - semester 2

3 x 1 hour lectures, 1 x 3 hour practical per week

Restriction: BSc (Mineral Geoscience), BE (Mining)

Assumed Knowledge: C&ENVENG 1011, GEOLOGY 1104 or equiv

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

2 x 1 hour lectures, 5 hours practical work per week

Assumed Knowledge: GEOLOGY 2008 or PHYSICS 1100 and 1200 or PHYSICS 1101 or MATHS 1011 and 1012 or MATHS 1013 and 2004

Incompatible: GEOLOGY 3008 and GEOLOGY 2002

Assessment: Assignments, exam

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

2 x 1 hour lectures, 5 hours practical work per week

Assumed Knowledge: GEOLOGY 2006 and 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 hour lecture, 5 hour practical per week, 8 day field trip

Assumed Knowledge: GEOLOGY 2008 and GEOLOGY 2008

Incompatible: GEOLOGY 3014, GEOLOGY 3009 and 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. 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

1 x 2 hour lecture, 5 hour practical per week, 7 day field trip

Assumed Knowledge: GEOLOGY 2008 and 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

2 x 1 hour lectures, 5 hours practical work per week

Prerequisite: GEOLOGY 2006 or GEOLOGY 2000

Incompatible: GEOLOGY 3004

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

2 x 1 hour lectures, 5 hours practical work per week

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 x 1 hour lectures, 5 hours practical work per week, 4 day field trip

Assumed Knowledge: GEOLOGY 2006

Incompatible: GEOLOGY 3003 and 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 and GEOLOGY 3016

Assumed Knowledge: GEOLOGY 2006 and 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)

Prerequisite: GEOLOGY 2500

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. For detailed information see: 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

Assumed Knowledge: Other Level III courses offered by Geology & 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. For more detailed information see: www.ees.adelaide.edu.au/prospective/honours/programs/geology.html/

GEOLOGY 4003A/B
Honours Bachelor of 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%

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)

A 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).

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

Prerequisite: SACE Stage 2 German or equivalent with scaled score of more than 14/20 or equivalent

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 equivalent

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 2021
German in Germany

3 units - summer semester

Jan - Feb 2009 at Stuttgart Winter University

Prerequisite: 24 units at Level I or equivalent

Assessment: As specified for specific language and culture courses taken as part of the 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.

GERM 2030
German Special Topic II

3 units - semester 1 or 2

4 contact hours per week

Restriction: Not available to students who have completed Level I German

Prerequisite: Sem 1 - 12 units Level I Humanities/Social Sciences; Sem 2 - Language topic (Sem 1)

Incompatible: GERM 2008

Assessment: As for German I/IS

This course offers the opportunity for students in second year to complete a first level German language course. It is particularly appropriate for prospective postgraduates or Honours students who need to develop a reading ability of the German language for research purposes. Students intending to do semester 2 of this topic must normally have completed semester 1.

GERM 2203
German IIA: German Language and Society

3 units - semester 1

3 contact hours per week

Available for Non-Award Study

Prerequisite: GERM 1003 German IB or equivalent

Incompatible: GERM 2002

Assessment: Homework 15%, class tests 25%, end-of-semester test 40%, conversation tutorial (participation, performance, presentation) 20%

Building on the language sections of German IA and IB, this course is aimed to further develop students' proficiency in the four language skills - listening, speaking, reading and writing - through a combination of readings and reproductive and creative exercises. It also aims to enhance students' intercultural understanding through the use of authentic texts that focus on aspects of contemporary society in German-speaking countries and promote comparison and discussion.

GERM 2204
German IIB: German Language and Society

3 units - semester 2

3 contact hours per week

Available for Non-Award Study

Prerequisite: GERM 2002 German IIA or equivalent

Incompatible: GERM 2003

Assessment: Homework 15%, class tests 25%, end-of-semester test 40%, conversation tutorial (participation, performance, presentation) 20%

Building on German IIA, this course is aimed to further develop students' proficiency in the four language skills - listening, speaking, reading and writing - through a

combination of readings and reproductive and creative exercises. It also aims to enhance students' intercultural understanding through the use of authentic texts that focus on aspects of contemporary society in German-speaking countries and promote comparison and discussion.

GERM 2211
German IISA: German Language and Society

3 units - semester 1

3 contact hours per week

Available for Non-Award Study

Prerequisite: GERM 1012 German ISB or equivalent

Incompatible: GERM 2011

Assessment: Homework 20%, mid-semester test 25%, end-of-semester test 35%, conversation tutorial (participation, performance, presentation) 20%

Building on the language sections of German ISA and ISB, this course is aimed to further develop students' proficiency in the four language skills - listening, speaking, reading and writing - through a combination of readings and reproductive and creative exercises. It also aims to enhance students' intercultural understanding through the use of authentic texts that focus on aspects of contemporary society in German-speaking countries and promote comparison and discussion.

GERM 2212
German IISB: German Language and Society

3 units - semester 2

3 contact hours per week

Available for Non-Award Study

Prerequisite: GERM 2011/2211 German IISA or equivalent

Incompatible: GERM 2012

Assessment: Homework 20%, mid-semester test 25%, end-of-semester test 35%, conversation tutorial (participation, performance, presentation) 20%

Building on German IISA, this course is aimed to further develop students' proficiency in the four language skills - listening, speaking, reading and writing - through a combination of readings and reproductive and creative exercises. It also aims to enhance students' intercultural understanding through the use of authentic texts that focus on aspects of contemporary society in German-speaking countries and promote comparison and discussion.

GERM 2221
German Cultural Studies IISA

3 units - semester 1

3 contact hours per week

Available for Non-Award Study

Prerequisite: GERM 1012 or equivalent

Assessment: Class participation 10%, oral presentation 10%, 2,000 word reading journal 30%, 2,500 word essay 50%

This course offers students their first exposure to in-depth analysis of German texts, both written and visual. Guidance will be given on basic methods of textual interpretation and contextualised activities and the gradually increasing level of textual and linguistic complexity will enable students to practise and develop their reading and interpretative skills throughout the semester. While all the texts considered will be studied within the framework of their particular historical and social context, the major focus will be on developing reading strategies and encouraging students to read widely within the topic area. The precise material treated in the course may change from year to year. For details of course content, students should consult the web or the discipline handbook.

GERM 2222
German Cultural Studies IISB

3 units - semester 2

3 contact hours per week

Available for Non-Award Study

Prerequisite: GERM 1012 or equivalent

Assessment: Class participation 10%, 1,500 word presentation 40%, 3,000 word essay 50%

In this course students will be introduced to a range of examples of German popular culture from the past and the present - fairy tales, stories, films, TV shows, popular music. They will explore the meaning of popular culture and its significance, the issues that individual works raise and the insights they provide into German culture. The main focus of the course and the material treated in it may change from year to year. For details of the course content, students should consult the web or the discipline handbook.

GERM 2223
German Cultural Studies IIA

3 units - semester 1

3 contact hours per week

Available for Non-Award Study

Prerequisite: GERM 1003 or equivalent

Incompatible: GERM 1011, GERM 2002

Assessment: Mid-semester test 15%, seminar presentation 20%, 1,500 word written presentation 35%, end-of-semester test 30%

From Adenauer to Schroder, from the Berlin blockade to the fall of the Wall, from post-war greed to the fashions of anorexia, from the miracle of Bern to Berti's shame, from Peter Kraus to Tic-Tac-Two - for Germans in the East and the West, the path into the 21st century has been full of turning-points and events which have shaped the generations. This course provides an overview of essential facts about politics, society and culture from 1945 to the present. The accompanying seminar will provide students with the opportunity to study topics in more depth through the discussion of various texts associated with the historical milestones presented in the lectures.

GERM 2224
German Cultural Studies IIB

3 units - semester 2

3 contact hours per week

Available for Non-Award Study

Prerequisite: GERM 1003 or equivalent

Incompatible: GERM 1012, GERM 2003

Assessment: Mid-semester test 15%, seminar presentation 20%, 1,500 word written presentation 35%, end-of-semester test 30%

This course is designed to extend students' understanding of contemporary Germany. Information will be provided mainly in English but lectures will include film and print material in German and guest speakers will speak in German so students are gradually exposed to more complex issues in German and are thus given the opportunity to improve their listening and comprehension skills. The accompanying seminar will provide students with the opportunity to study topics in more depth through the discussion of various texts associated with issues presented in the lectures.

LEVEL III

GERM 3021
German in Germany

3 units - summer semester

January - February 2009 at Stuttgart Winter University

Prerequisite: GERM 2204 or GERM 2212 or equivalent

Assessment: as specified for specific language and culture courses taken as part of the Stuttgart Winter University program

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. 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 3030
German Special Topic Level III

3 units - semester 1 or 2

4 contact hours per week

Restriction: Not available to students who have completed German language at any level

Prerequisite: Sem 1 - 12 units Level II Humanities/Social Sciences; Sem 2 - Language topic (Sem 1)

Incompatible: GERM 3008

Assessment: As for German I/IS

This course offers the opportunity for students in third year to complete a first level German language course. It is particularly appropriate for prospective postgraduates or Honours students who need to develop a reading ability of the German language for research purposes. Students intending to do semester 2 of this topic must normally have completed semester 1.

GERM 3203
German IIIA: German Language & Society

3 units - semester 1

3 contact hours per week

Available for Non-Award Study

Prerequisite: GERM 2204 or equivalent

Incompatible: GERM 3002

Assessment: Homework 20%, mid-semester test 25%, end-of-semester test 35%, conversation tutorial (participation, performance, presentation) 20%

Building on the language sections of German IIA and IIB, this course is aimed to further develop students' proficiency in the four language skills - listening, speaking, reading and writing - through a combination of readings and reproductive and creative exercises. It also aims to enhance students' intercultural understanding through the use of authentic texts that focus on aspects of contemporary society in German-speaking countries and promote comparison and discussion.

GERM 3204
German IIIB: German Language and Society

3 units - semester 2

3 contact hours per week

Available for Non-Award Study

Prerequisite: GERM 3203 or equivalent

Incompatible: GERM 3003

Assessment: Homework 20%, mid-semester test 25%, end-of-semester test 35%, conversation tutorial (participation, performance, presentation) 20%

Building on the language sections of German IIIA, this course is aimed to further develop students' proficiency in the four language skills - listening, speaking, reading and writing - through a combination of readings and reproductive and creative exercises. It also aims to enhance students' intercultural understanding through the use of authentic texts that focus on aspects of contemporary society in German-speaking countries and promote comparison and discussion.

GERM 3211
German IIISA: German Language and Society

3 units - semester 1

3 contact hours per week

Prerequisite: GERM 2212 or equivalent

Incompatible: GERM 3011

Assessment: Homework 20%, mid-semester test 25%, end-of-semester test 35%, conversation tutorial (participation, performance, presentation) 20%

Building on the language sections of German IISA and German IISB, this course is aimed to consolidate and expand students' German competence and refine their skills in written and oral communication on more complex topics. It also aims to enhance students' intercultural understanding through the use of authentic texts that focus on aspects of contemporary society in German-speaking countries and promote analysis and discussion at a more advanced level.

GERM 3212
German IIISB: German Language and Society

3 units - semester 2

3 contact hours per week

Available for Non-Award Study

Prerequisite: GERM 3211 or equivalent

Incompatible: GERM 3012

Assessment: Homework 20%, mid-semester test 25%, end-of-semester test 35%, conversation tutorial (participation, performance, presentation) 20%

Building on the language sections of German IIISA, this course is aimed to expand students' German competence and refine their skills in written and oral communication on more complex topics. It also aims to enhance students' structural understanding through the use of authentic texts that focus on aspects of contemporary society in German-speaking countries and promote analysis and discussion at a more advanced level.

GERM 3221
German Cultural Studies IIISA

3 units - semester 1

3 contact hours per week

Available for Non-Award Study

Prerequisite: GERM 2212 or equivalent

Assessment: Class participation 10%, 2,000 word presentation 40%, 3,500 word essay 50%

This courses focuses on important epochs in German-speaking cultural history, e.g. Enlightenment, Classicism vs. Romanticism, Viennese decadence and the fin-de-siecle, post-World War II "Stunde Null", German literature and re-unification. Within this framework texts in a wide variety of genres will be considered, including novels, dramas and poems as well as reviews, pamphlets, commentaries etc. Other art forms of the particular epoch such as film, painting, music and architecture will also be discussed. The artworks of each epoch will be interpreted within their historical, social and political context. This enables students to gain concrete and detailed insights into the "worlds" and epochal changes in German-speaking cultural history. The material treated in the course may change from year to year. For details of the course content, students should consult the web or the discipline handbook.

GERM 3222
German Cultural Studies IIISB

3 units - semester 2

3 contact hours per week

Available for Non-Award Study

Prerequisite: GERM 2212 or equivalent

Assessment: Class participation 10%, 2,000 word presentation, 3,500 word essay 50%

This course will focus on some of the great texts of German literature from the time of the French Revolution to the present. Students will read and discuss the texts and examine them in their social and historical context, considering not only social and political developments, but also the life of the author, the genesis of the text and its reception. They will also explore the themes and motifs that link the texts. By locating the text in a specific time, but also examining textual connections over time, the course aims to provide students with an understanding and appreciation of both the texts themselves and the social significance of literature and art in general. The main focus of the course and the material treated in it may change from year to year. For details of the course content, students should consult the web or the discipline handbook.

GERM 3223
German Cultural Studies IIIA

3 units - semester 1

3 contact hours per week

Available for Non-Award Study

Prerequisite: GERM 2204 or equivalent

Assessment: Class participation 10%, oral presentation 10%, 1,500 word reading journal 30%, 3,000 word essay 50%

This course offers students in the beginners' stream their first exposure to in-depth analysis of German texts, both written and visual. Guidance will be given on basic methods of textual interpretation and contextualised activities and the gradually increasing level of textual and linguistic complexity will enable students to practise and develop their reading and interpretative skills throughout the semester. While all the texts considered will be studied within the framework of their particular historical and social context, the major focus will be on developing reading strategies and encouraging students to read widely within the topic area. The precise material treated in the course may change from year to year. For details of course content, students should consult the web or the discipline handbook.

GERM 3224
German Cultural Studies IIIB

3 units - semester 2

3 contact hours per week

Available for Non-Award Study

Prerequisite: GERM 2204 or equivalent

Assessment: Class participation 10%, 1,500 word presentation 40%, 3,000 word essay 50%

In this course students will be introduced to a range of examples of German popular culture from the past and the present - fairy tales, stories, films, TV shows, popular music. They will explore the meaning of popular culture and its significance, the issues that individual works raise and the insights they provide into German culture. The main focus of the course and the material treated in it may change from year to year. For details of course content, students should consult the web or the discipline handbook.

HONOURS

GERM 4401A/B
Honours German Studies

24 units - full year

Prerequisite: Undergraduate 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. A 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% and 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'.

ADVANCED LEVEL

HIST 2052
Migrants, Refugees & the Making of Modern Australia

3 units - semester 1

3 contact hours per week

Available for Non-Award Study

Prerequisite: 12 units Level I Humanities/Social Sciences

Incompatible: HIST 2045/3045

Assessment: 2,500 word research essay, 1,000 word 'museum exhibition' project, 2 hour exam

The Tampa crisis, widespread fears of 'people smuggling', and the revelations about the condition of asylum seekers in detention centres have reignited the debate about Australia's immigration policy and the way that we treat refugees. There is a perception that Australia has already 'done its bit' in generously accepting waves of displaced persons and refugees since World War II, and that further large-scale intakes will destabilise the Australian economy and threaten our 'way of life'. Yet, others argue that Australia's post-war Displaced Persons Scheme was self-serving and oriented towards sourcing cheap labour for dangerous public works projects, and that while Australia opened its border to Asians and East-Europeans for the first time, our preference was always for British migrants who continued to constitute the overwhelming majority of new arrivals. From this perspective, the Australian government's current stringent migrant and refugee intake quota simply reflect the continuation of a long-standing and generally hard-hearted immigration policy. We will examine these different points of view, alongside the testimony of migrants and refugees who left behind

everything and everyone they knew to make a new life in Australia.

HIST 2053
Medieval Europe: Crusades to the Black Death

3 units - semester 1

3 contact hours per week

Available for Non-Award Study

Prerequisite: 12 units Level I Humanities/Social Sciences including 3 units Level I History

Incompatible: HIST 2042/3042

Assessment: Tutorial participation 10%, 1,500 word reading journal 15%, 150 word multiple choice quizzes 10%, 1,500 word research essay 25%, 2-hour exam 40%

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 2055
Food and Drink in World History

3 units - semester 2

3 contact hours per week

Prerequisite: 12 units of Level I Humanities/Social Sciences

Incompatible: HIST 2048/3048

Assessment: 1,500 word mid-semster essay 30%, 3,000 word final essay 60%, tutorial participation and 500 word presentation 10%

Food and drink are essential for our survival, but what does thinking about the food/drink reveal about history and about ourselves? The aim of this course is to explore food/drink in world history, and to pose the following question: what can food/drink tell us about a society at a particular time? The course will allow you to develop your abilities to think critically about everyday practices such as cooking, eating, drinking and meals, and to locate them within their historical context so you can reflect on the roles that such practices have played in the development of various societies. How have food/drink been used to display status? What rituals are associated with drinking and why? What makes a 'national cuisine'? How have changing gender roles influenced the family meal? Has globalisation negatively influenced our eating habits? How do we make 'ethical' food choices? Students should complete the course with an understanding of the role of food/drink over the course of history; an appreciation of the economic, social, and political contexts that have influenced practices associated with the production and consumption of food/drink; and the ability to engage in independent research on an issue relating to the history of food/drink.

HIST 2056
America, Asia and the Cold War

3 units - semester 2

3 contact hours per week

Available for Non-Award Study

Prerequisite: 12 units Level I Humanities/Social Sciences including 3 units of Level I History

Incompatible: HIST 2030/3030

Assessment: Tutorial participation 10%, 1,500 word reading journal 15%, 150 word multiple choice quizzes 10%, 1,500 word research essay 25%, 2 hour exam 40%

We live in what is frequently said to be 'a post-Cold War world'. One in which the issues which dominated the international arena for much of the second half of the twentieth century are said to have been replaced by new agendas of 'global terrorism' and a world-wide struggle between the 'forces of democracy' and their opponents. So what was the Cold War? When and why did it begin? What were the issues involved? When and why did it end (if indeed it has)? And what has been its legacy for the twenty-first century? Events in the Western hemisphere, such as the Berlin blockade and the Cuba missile crisis, have often been highlighted in debates about the Cold War. This is only part of the picture, however. The Cold War in Asia, in which the United States (and Australia) was deeply involved, is equally important. Hence this course will cover such topics as the 'loss of China' to the communists in 1949, the subsequent 'hot' wars in Korea and Vietnam, and the drawing of Indonesia into the Cold War orbit. All these events not only defined the epoch. They had consequences that are still being played out today.

HIST 2057
Fascism and National Socialism

3 units - semester 1

3 contact hours per week

Available for Non-Award Study

Prerequisite: 12 units Level I Humanities/Social Sciences including 3 units Level I History

Incompatible: HIST 2014/3014

Assessment: Tutorial participation 10%, 2,000 word essay 45%, 2 hour exam 30%, 1,500 word tutorial reading reflection 15%

Extreme right wing ideologies of the twentieth century and European movements or parties that claimed to be based on them provide the focus of this course. Broadly, it covers the period 1900-1945. Major themes discussed in lectures and seminars include the intellectual and cultural origins of fascism; political and social dislocation following World War I; Italian fascism, its appeal and its leaders; the distinguishing features of National Socialism in Germany (notably anti-Semitism and policies of exclusion and repression); social and cultural life in Fascist Italy and Nazi Germany; and degrees of cooperation, collaboration and resistance in occupied Europe. We will

also discuss the changing perceptions of Fascism over time and current debates on its nature.

HIST 2061
The Pursuit of Happiness

3 units - semester 1

3 contact hours per week

Check with School for Non-Award Study

Prerequisite: 12 units Level I Humanities/Social Sciences including 3 units Level I History (Europe, Empire & the World or World in Turmoil) or equivalent

Assessment: 1 hour mid-term exam 20%, 2,500 word essay 40%; 2 hour final exam 40%

This course will study the cultural and intellectual history of the pursuit of happiness, focusing on 19th and 20th century Europe. It will examine the intellectual underpinnings of the pursuit of happiness in late Enlightenment thought; the revolutionary implications of the pursuit of happiness for political order and stability; the rise of consumer and leisure culture (advertising, the rise of the department store, and paid vacations) in the 19th century; and the tensions between mass culture and individual happiness. The course will include a wide and eclectic range of readings, including Adam Smith, Mary Wollstonecraft, Alexandra Kollantai, Friedrich Nietzsche and Sigmund Freud, among others.

HIST 2062
Modern America: From Blues to Hip Hop

3 units - semester 2

3 contact hours per week

Available for Non-Award Study

Prerequisite: 12 units Level I Humanities/Social Sciences including 3 units Level I History

Assessment: Tutorial participation 10%, 800 word essay 20%, 300 wordbibliography 5%, 3,500 research essay 35%, final exam 30%

This course will chart the emergence of American imperialism and American freedom. It will analyse the simultaneous creation of an American global empire, a development often viewed with distrust by ordinary people in Africa, Latin America, and Southeast Asia, and the development of liberal reform movements within the nation including the New Deal, Johnson's Great Society programs of the 1960s, and the Civil Rights Movements for women, African-Americans, and for Gay and Lesbian peoples. American popular culture will be analysed at various junctures of the course to illustrate the tensions between American as imperialist and American as a liberal, and sometimes radical, nation of reform. Blues, Jazz, and Rock and Roll have all aided twentieth-century emancipatory projects, but American culture was also put into the service of Cold Warriors in the 1950s and can be viewed as at the centre of American materialism and extreme individualism. Along the way we will view these developments from the perspective of a diverse range of Americans, as well as non-Americans who were increasingly under the influence of American economics and culture.

HIST 2068
Uniting the Kingdoms: Britain 1534-1707

3 units - semester 2

3 contact hours per week

Prerequisite: 12 units Level I Humanities/Social Sciences

Incompatible: HIST 2002/3002

Assessment: tutorial participation 10%, 1,500 word reading journal 15%, 150 word multiple choice quizzes 10%, 1,500 word research essay 25%, 2 hour exam 40%

This course examines England in the sixteenth and seventeenth centuries and its development from a European backwater to the beginning of its emergence as a global power. Particular attention is paid to the British context: the impact of English imperialism on its Anglo-Celtic neighbours, the absorption of Wales, the conquest and colonisation of Ireland, and the conflicts with Scotland which led to the union of 1707.

HIST 2069
Heresy and Witchcraft in Medieval Europe

3 units - semester 2

3 contact hours per week

Prerequisite: 12 units Level I Humanities/Social Sciences

Incompatible: HIST 2033/3033

Assessment: essay plan 10% & bibliography 10% [totalling 1,000 words], 3,000 word essay 50%, tutorial participation 10%, in-class test 20%

This course explores belief and deviancy in medieval Europe. After identifying religious and cultural orthodoxy, it embarks upon an analysis of dissent. Divergence from sanctioned ideology and ritual ranged from the spiritual and social challenge of medieval heresies, through popular beliefs in the magical powers of people and objects, to the witchcraze of the sixteenth and seventeenth centuries. Using a wide variety of original documents and historical interpretations, the course aims to understand and explain conflicting belief systems and the rise of intolerance in the pre-modern world.

HIST 2070
History of the Indigenous Peoples of Australia B

3 units - semester 1

3 contact hours per week

Available for Non-Award Study

Prerequisite: 12 units Level I Humanities/Social Sciences including 3 units Level I History

Incompatible: 2043/3043

Assessment: Tutorial participation 10%, 1,500 word short essay 30%, 3,000 word research essay 40%, two 1,500 word tutorial papers 20%

The aim of this course is to give students an understanding of the Aboriginal experience of life in twentieth century Australia. Topics include government policy, institutionalisation, Aboriginal art and literature, and Aboriginal political movements. A central concern of the course will be to present Aboriginal perspectives. It should be noted that while this is a history course it is interdisciplinary in nature. As well as examining conventional historical issues it will also look at literature,

art and film. This diversity of approaches will be reflected in a wide range of tutorial exercises and essay topics.

HIST 2071
The Origins of Modern America

3 units - semester 1

3 contact hours per week

Available for Non-Award Study

Prerequisite: 12 units Level I Humanities/Social Sciences including 3 units Level I History

Incompatible: 2019/3019

Assessment: Tutorial participation 20%, final exam 20%, bibliography 5%, 1,000 word short essay 20%, 3,500 word research essay 35%

This course is based around the themes of American freedom and American slavery. The course will determine how and why democratic traditions developed and related to the various oppressions of African-Americans, women, Native Americans, and wage workers. These themes will intersect with a variety of topics including: a comparison of early American colonies and their development, Native American-colonist relations, the "Terrible transformation" towards slavery, the Salem witch trials, the social world of pirates, Benjamin Franklin and the American ethos of the self-made man, and the coming of the American Revolution. Later on we will analyse how the industrial revolution changed American culture, Jacksonian democracy, and analyse antebellum slavery through the eyes of runaway slave Frederick Douglass and southern nationalist George Fitzhugh. The Civil War and its aftermath, a clear turning point in the history of American democracy, will occupy our attention in the final weeks of the semester.

HIST 2076
Portraiture and Power

3 units - semester 2

3 contact hours per week

Prerequisite: 12 units Level I Humanities/Social Sciences

Assessment: 3,500 word major research essay 40%, 500 word visual analysis 20%, 1,000 word seminar presentation/minor essay 30%, tutorial participation 10%

This advanced level course complements and expands conventional studies of the representation of power in historical and political textual sources by focusing on the enduring genre of portraiture in past and present visual culture. It explores the evolution of the making and meaning of the human likeness in art and examines the complex relationship between artist, sitter and viewer. While the form and function of portraits is closely examined, the idea of artistic portraiture as a valuable primary source of historical and political information is demonstrated to be of equal significance as its literary counterpart. Students are provided with a unique opportunity to develop understanding of key aesthetic, social and psychological perspectives to critically analyse the construction, dissemination and reception of political image and identity and its agency in the broadest sense across time and place.

CAPSTONE

HIST 3100
The Practice of History

3 units - semester 2 (Not offered until 2010)

3 contact hours per week

Prerequisite: 15 units in History with no more than 6 units at Level I

Assessment: 4,500 word major research essay 50%, 500 word research proposal 20%, 1,000 word seminar presentation 20%, tutorial participation 10%

This is the History Discipline's Capstone course, designed to allow students to hone their skills as historians by undertaking a major research project of their own choosing. The course will introduce students to the key historiographical, theoretical, methodological and ethical issues faced by historians.

The course will have a dual focus on the use of primary source material and on major 'controversies in history'. The subject matter will be drawn from a wide range of fields and periods of history, and will enable students to explore subjects with which they are already familiar, as well as introducing them to new ones. A major aspect of the course will deal with the practical aspects of researching and writing history and will run in parallel to the development of a research project.

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) in semester 1, 15000 word thesis written in semester 2 (lists of special courses & thesis supervisors are in Honours handbook)

Application forms for admission to Honours and a detailed brochure on the course are available from the History Office; students with questions about the course or eligibility should consult the Honours Coordinator

Honours work includes the writing of a thesis, a common course on the principles and practice of historical research and writing, and an elective. Students may choose their elective from a list published in the Honours handbook.

Honours in History can be studied part-time or can be combined with Honours in another discipline, subject to the approval of the Head of Discipline.

Horticulture

LEVEL III

HORTICUL 3000WT
Production Horticulture III

3 units - semester 2

2 hour lecture, 4 hour practical per week

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 III

3 units - semester 1

1 x 2 hour lecture, 4 hour practical per week

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 III

3 units - winter semester

5 x 4 hour lectures, 5 x 4 hour practicals for 2 weeks in 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 a 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 2500
Internet Commerce II

3 units - semester 2

2 lectures, 1 tutorial, 8 hours self-directed study per week

Restriction: Cannot be counted with WINEMKTG 3047EX

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.

ECOMMRCE 3500
Electronic Commerce III

3 units - semester 1 (Not offered until 2010)

2 lectures, 1 tutorial, 8 hours self-directed study per week

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

Syllabus details to be advised.

International Business

LEVEL II

INTBUS 2500
International Business II

3 units - semester 2

2 hour lecture, 1 hour tutorial per week

Assessment: Typically 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 hour tutorial per week

Assessment: final exam 65%, mid-semester business report 30%, tutorial participation 5%

This course gives students an insight into how to anticipate and deal with some of the major challenges faced in the international business arena. Topics include: an 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 while dealing with trade law and the WTO; external challenges - how a company navigates corporate legal obligations, consumer concerns, labour and human rights issues, poverty, sustainable development and environmental issues.

INTBUS 3001
Legal Aspects of International Business III

4 units - semester 1

Assessment: Exams, participation and assignmenta as determined at the first lecture

This course would introduce students to the legal aspects of doing business abroad. Topics include: the different legal systems; tax and regulation of trade; the enforceability of contracts; and judgements and dispute management across borders. The course will also introduce students to the issues of intellectual property protection and antidumping regulations.

INTBUS 3500
Legal Aspects of International Business III

3 units - semester 1 (Not offered until 2010)

Assessment: mid-semester test 10%, class participation 10%, group assignment 20%, final exam 60%

This course introduces students to the legal aspects of doing business abroad. Topics include: the different legal systems; tax and regulation of trade; the enforceability of contracts; and judgements and dispute management across borders. The course also introduces students to the issues of intellectual property protection and antidumping regulations.

International Studies

CAPSTONE

INST 3100
International Studies Core Course

3 units - semester 2

3 contact hours per week

Available for Non-Award Study

Prerequisite: 15 units in Politics with no more than 6 units at Level I

Incompatible: INST 2001

Assessment: Closed-book multiple choice test 20%, 1,500 word paper 20%, 3,000 word major essay 50%, participation 10%

The course is designed to draw together a variety of areas dealt with in International Studies. The study of the international system is first and foremost one of perceptions and perspectives. Indeed, the very depiction of the world as a single international system is a facet of perspective. The course sets out to test these boundaries and forms of perception, by first of all examining holistic approaches to looking at the world ('global systems' and 'New World Orders' etc.), and then turning to perspectives from individual states and groups of states. Elements of Politics, Political Economy, History and Area Studies are at the heart of the course, with the theoretical and methodological foundations of how these blend together being a key dimension to its delivery.

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 Advanced Level 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: Beginner I

3 units - semester 1

3 contact hours per week

Available for Non-Award Study

Prerequisite: Approval from Coordinator

Assessment: Continuous assessment, exam(s)

The Japanese IA: Beginner I 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: i) to enhance and consolidate the introductory grammar; ii) to expand knowledge and use of vocabulary in both conversational and written contexts; iii) to develop communication skills/strategies; iv) to become familiar with hiragana, katakana and basic kanji; v) to become efficient and independent language learners.

JAPN 1002
Japanese IB: Beginner II

3 units - semester 2

3 contact hours per week

Available for Non-Award Study

Prerequisite: JAPN 1001 (or equivalent)

Assessment: Continuous assessment, exam(s)

The Japanese IB: Beginner II 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: i) to enhance and consolidate the introductory grammar; ii) to expand knowledge and use of vocabulary in both conversational and written contexts; iii) to develop communication skills/ strategies; iv) to become familiar with new kanji; v) to become efficient and independent language learners.

JAPN 1011
Japanese 1SA: Higher Elementary I

3 units - semester 1

3 contact hours per week

Available for Non-Award Study

Prerequisite: Continuers Japanese (at 15 or better) or equivalent

Assessment: Continuous assessment, exam(s)

The Japanese ISA: Higher Elementary I course continues instruction and practice in the four skills of reading, writing listening and speaking to further develop students' Japanese language competence at the higher elementary level. Throughout the course, emphasis is placed on enhancing students' communication skills in both spoken and written Japanese to consolidate a solid foundation at the higher elementary level. The aims of the course are: : i) to build and consolidate the higher elementary grammar; ii) to expand knowledge and use of vocabulary in both conversational and written contexts; iii) to develop communication skills/strategies; iv) to develop reading and writing skills using a substantial number of characters and their combinations; v) to become efficient and independent language learners.

JAPN 1012
Japanese 1SB: Higher Elementary II

3 units - semester 2

3 contact hours per week

Available for Non-Award Study

Prerequisite: JAPN 1011 (or equivalent)

Assessment: Continuous assessment, exam(s)

The Japanese ISB: Higher Elementary II course completes the higher elementary grammar and further extends students' knowledge of vocabulary and Kanji, in order to progress to the intermediate level. Through instruction and practice in the four skills of reading, writing, listening and speaking, increased emphasis is placed on enhancing students' communication skills in both spoken and written Japanese to further consolidate a solid foundation at the higher elementary level. The aims of the course are: i) to complete the higher elementary grammar and to enhance the knowledge in advanced usages of various grammatical combinations; ii) to expand knowledge and use of vocabulary in both conversational and written contexts; iii) to develop communication skills/strategies; iv) to develop reading and writing skills using a substantial number of characters and their combinations; v) to become efficient and independent language learners.

LEVEL II

JAPN 2201
Japanese 2A: Lower Elementary I

3 units - semester 1

3 contact hours per week

Available for Non-Award Study

Prerequisite: JAPN 1002 or equivalent

Incompatible: JAPN 2001

Assessment: Continuous assessment, exam(s)

Japanese 2A: Lower Elementary I course continues to build upon knowledge of the grammar, vocabulary and kanji introduced at the lower elementary level, whilst offering instruction and practice in the four skills of reading, writing, listening and speaking. Throughout the course, emphasis is placed on developing students' communication skills in both spoken and written Japanese to consolidate a solid foundation at the lower elementary level. The aims of the course are: (i) to build upon and consolidate the lower elementary grammar; ii) to expand knowledge and use of vocabulary in both conversational and written contexts; iii) to develop communication skills/strategies; iv) to become familiar with new kanji characters and their combinations; v) to become efficient and independent language learners.

JAPN 2202
Japanese 2B: Lower Elementary II

3 units - semester 2

3 contact hours per week

Available for Non-Award Study

Prerequisite: JAPN 2001/2201

Incompatible: JAPN 2002

Assessment: Continuous assessment, exam(s)

Japanese IIB: Lower Elementary II course continues instruction and practice in the four skills of reading, writing, listening and speaking, while further enhancing the knowledge of grammar, vocabulary and kanji at the lower elementary level. To complete the lower elementary grammar, vocabulary and kanji in this course, increased emphasis is placed on developing students' communication skills in both spoken and written Japanese to further consolidate a solid foundation at the lower elementary level. The aims of the course are: i) to enhance and complete the lower elementary grammar; ii) to expand knowledge and use of vocabulary in both conversational and written contexts; iii) to develop communication skills/strategies; iv) to become familiar with new kanji characters and their combinations; v) to become efficient and independent language learners.

JAPN 2211
Japanese 2SA: Intermediate I

3 units - semester 1

3 contact hours per week

Prerequisite: JAPN 2012 (or equiv)

Incompatible: JAPN 2011

Assessment: Continuous assessment, exam(s)

This course aims to develop students' Japanese language competence at the (lower) intermediate level. A substantial number of vocabulary, kanji and grammar points at the intermediate level are introduced using function-based textbooks, whilst enabling students to review and integrate their prior knowledge of vocabulary and grammar. This course also offers practical communication practice to build students' ability to converse and discuss on a wide range of topics. At the same time, strong emphasis is placed on developing reading and writing skills using practical materials used for different functions and situations in Japanese.

JAPN 2212
Japanese 2SB: Intermediate II

3 units - semester 2

5 contact hours per week

Prerequisite: JAPN 2011/2211 (or equiv)

Incompatible: JAPN 2012

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 2213
Japanese 2SB: Practical Japanese

3 units - semester 2

3 contact hours per week

Prerequisite: JAPN 2211

Assessment: Research projects, assignments and tests

This course is a complementary course for Japanese IISB Intermediate II, and in order to facilitate students' progress from the intermediate to the advanced level, this course further extends students' language skills, by continuing to use authentic on-line Japanese language source materials for their language learning. By building upon the knowledge and language skills developed in JAPN 2211, students will further develop necessary skills to conduct small-scale research projects. In this course, increased emphasis is placed upon enhancing the following language skills: i) to demonstrate their understanding of research topics/issues in Japanese; ii) to identify and form a research question in Japanese; iii) to retrieve both on-line and printed reference sources in Japanese; iv) to assess and analyse Japanese language reference sources critically by scanning and skimming retrieved texts (v) to arrive at answers to research questions in Japanese; vi) to present their research findings in oral presentations.

In order to develop students' ability to form and express their own opinions using appropriate register, a selection of Japanese texts on issues and topics related to Japan and certain aspects of language use will be used as discussion materials. Some of these discussions will take place with Japanese native speakers who will be invited to talk about a certain issue/topic in class.

LEVEL III

JAPN 3201
Japanese 3A: Higher Elementary I

3 units - semester 1

3 contact hours per week

Available for Non-Award Study

Prerequisite: JAPN 2002/2202 or JAPN 1012

Incompatible: JAPN 3001

Assessment: Continuous assessment, exam(s)

The course continues instruction and practice in the four skills of reading, writing, listening and speaking to further develop students' Japanese language competence at the higher elementary level. Throughout the course, emphasis is placed on enhancing students' communication skills in both spoken and written Japanese to consolidate a solid foundation at the higher elementary level. The aims of the course are: i) to build and consolidate the higher elementary grammar; ii) to expand knowledge and use of vocabulary in both conversational and written contexts; iii) to develop communication skills/strategies; iv) to develop reading and writing skills using a substantial number of characters and their combinations; v) to become efficient and independent language learners.

JAPN 3202
Japanese 3B: Higher Elementary II

3 units - semester 2

3 contact hours per week

Available for Non-Award Study

Prerequisite: JAPN 3201

Incompatible: JAPN 3002

Assessment: Continuous assessment, exam(s)

Japanese IIIB: Higher Elementary II course completes the higher elementary grammar and further extends students' knowledge of vocabulary and Kanji, in order to progress to the intermediate level. Through instruction and practice in the four skills of reading, writing, listening and speaking, increased emphasis is placed on enhancing students' communication skills in both spoken and written Japanese to further consolidate a solid foundation at the higher elementary level.

The aims of the course are: i) to complete the higher elementary grammar and to enhance the knowledge in advance usages of various grammatical combinations; ii) to expand knowledge and use of vocabulary in both conversational and written contexts; iii) to develop communication skills/strategies; iv) to develop reading and writing skills using a substantial number of characters and their combinations; v) to become efficient and independent language learners.

JAPN 3203
Japanese 3B: Practical Japanese

3 units - semester 2

3 contact hours per week

Available for Non-Award Study

Prerequisite: JAPN 3001/3201

Incompatible: JAPN 3002/3202

Assessment: Research Projects, assignments and tests

The course is a complementary course for Japanese IIIB: Higher Elementary II and, in order to facilitate students' progress from the higher elementary to the intermediate level, this course aims to extend students' language skills by using authentic Japanese language sources, including on-line materials. In this course, emphasis is placed on the application of students' language training developed so far, particularly in the areas of vocabulary, grammar and Kanji, to the retrieval of information on a selection of issues and topics. By the end of this course, students will be equipped with the necessary language skills and linguistic knowledge for accessing a variety of websites written in Japanese, using search engines, on-line dictionaries, translation tools and so forth. At the same time, emphasis is also placed on developing students' language skills to be able to scan, skim and critically analyse Japanese language texts available on-line, whilst searching for relevant information. In order to develop students' ability to form and express their own opinions using appropriate register in Japanese, a selection of Japanese texts on issues and topics related to Japan and certain aspects of language use, will be used as discussion materials.

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 Kanji if written in Japanese)

Students wishing to take Honours in Japanese Studies are encouraged to consult the Honours Coordinator prior to commencing Advanced Level studies to ensure that appropriate course choices are made in preparation for Honours. In order to fulfil 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 III

LATN 3002
Latin IIIA

6 units - semester 1 (Not offered beyond 2010)

3 contact hours per week

Restriction: Available only to students completing a major in Latin

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 (Not offered beyond 2010)

3 contact hours per week

Restriction: Available only to students completing a major in Latin

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.

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: Four short & two long, or one long & two short texts assessed by exam and/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 sem. 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 1501
Foundations of Law

3 units - semester 1 or 2

36 hours

Incompatible: LAW 1001

Assessment: Typically will include group work in seminars, written assignments during the semester, and an exam

This course provides an introduction to legal education, the concept of law and the development and operation of the Australian legal system. Topics include the historical background and the development of the Australian legal system; an introduction to the Australian Constitution and system of government, an introduction to legal theory, both traditional jurisprudence and critical legal thinking, and an introduction to legal ethics and the legal profession. The course will also provide a grounding in the core legal scholarship skills of case reading and analysis, legal research, statutory interpretation and problem solving.

LAW 1502
Law of Torts 1

3 units - semester 1

24 hours

Prerequisite: LAW 1501

Corequisite: LAW 1501

Incompatible: LAW 1007

Assessment: Typically to include group work, participation in seminars, individual and group written work and final exam

This course provides a general introduction to the law of torts with a specific focus on negligence. It considers: general and specific duty categories; standard of care; causation and remoteness; damages; defences; vicarious liability; and an introduction to statutory interpretation and the interaction between statute and common law, with specific emphasis on locating and explaining judicial consideration of the Civil Liability Act 1936 (SA). Students will also be introduced to group work and legal problem solving skills.

LAW 1503
Contracts

6 units - semester 1

60 hours

Prerequisite: LAW 1501

Corequisite: LAW 1501

Incompatible: LAW 1003

Assessment: Typically to include a combination of a take-home exam (mid-semester), final exam and one or more online quizzes

The course acquaints students with 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 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 course will introduce students to various theories of contracting and explore the influence of concepts such as 'freedom of contract', 'good conscience' and 'good faith' in the development and application of the law. Reference will also be made to the various regimes for regulating contracts that have an international dimension.

The following topics will be covered: formation; terms and interpretation; privity of contract, agency and assignment of obligations; vitiating factors; statutory remedies for unfair commercial conduct; performance and discharge of obligations; enforcement, compensation and restitutionary remedies.

LAW 1504
Principles of Public Law

3 units - semester 1 or 2

36 hours

Prerequisite: LAW 1501

Corequisite: LAW 1501

Assessment: Typically will include participation in seminars and other activities, written work and exam

An Introduction to the role and content of public law in the Australian Legal System. Selected topics will include: introduction to Federal and State Constitutions, both written and in common law; historical background and theories of constitutionalism, including an introduction to the doctrine of separation of powers and the nature of legislative, executive and judicial power at both Commonwealth and State levels; representative and responsible government, including the relation of citizens and their parliaments and the structure of government administration, and the relation of executive government to the parliaments; courts and parliament and courts and the executive; an introduction to International Law and its relation to the Australian legal system; human rights in Australian and International Law; and introduction to administrative law theory, including basic administrative law principles. It provides a foundation for Australian Constitutional Law and Administrative Law.

LAW 1505
Law of Torts 2

3 units - semester 2

36 hours

Prerequisite: LAW 1502

Incompatible: LAW 1007

Assessment: Typically will include research paper and final exam

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 torts law, beyond negligence principles, including defamation, recovery for economic loss, intentional torts, breach of statutory duty and concurrent liability (proportionate liability and contribution claims). The course will include a critical analysis of the role of policy in the development of the law and provide an opportunity for students to critically analyse the developments of the law.

The specific skills of legal research and writing will be introduced. Students will be expected to explore legislative enactment through consideration of explanatory memoranda, background papers and Hansard.

LAW 1506
Property Law

6 units - semester 2

72 hours

Prerequisite: LAW 1503

Assumed Knowledge: LAW 1502

Incompatible: LAW 1005

Assessment: Typically will include group work, participation in seminars, individual and group written work and final exam

This course will discuss the theoretical nature and justification of property and 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: the theoretical nature and justification of common, private and public/state property; 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, including assignments of property; the Torrens system of land title registration; leases; easements; and restrictive covenants.

LEVEL II

LAW 2501
Australian Constitutional Law

3 units - semester 1

36 hours

Prerequisite: LAW 1501

Corequisite: LAW 1504

Incompatible: LAW 2003

Assessment: Typically will include particpation in seminars, interim written assessment and exam

The Australian constitutional system. Selected topics will include: 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; the implications in the State and Federal constitutions drawn from representative and responsible government; the Commonwealth and the States as a social and an economic union; and the law relating to constitutional guarantees.

LAW 2502
Equity

3 units - semester 1

36 hours

Prerequisite: LAW 1506

Incompatible: LAW 2005

Assessment: Typically to include an interim written assignment & final exam

Historical basis of equity, as well as equitable rights, titles and interests in property, will be considered. The course will examine in detail major equitable doctrines or principles: 1) unconscionable conduct (which include estoppel and unconscionable transactions ; 2) fiduciary relationships; 3) trust: express (which discusses trust accounting), resulting and constructive. In trusts particular reference will be paid to the various types of trusts and the manner and form of their creation and variation. Further, the duties, rights and powers of trustees will be included, as will be the consequences of breach of trust. 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 2503
Criminal Law and Procedure

6 units - semester 1

60 hours

Prerequisite: LAW 1501

Assumed Knowledge: LAW 1503

Incompatible: LAW 1004

Assessment: Typically will include an assignment or test (Criminal Procedure), class participation and a final exam

The course in Criminal Law and Procedure opens with an examination of the nature and purposes of the criminal law and the general principles of criminal responsibility at common law and in the Commonwealth Criminal Code. It continues with a consideration of selected issues in criminal procedure, with particular reference to prosecutorial practice and the requirements of fair trial. The procedural section of the course is presented in conjunction with the law of non fatal offences against the person. The topics that follow include a selection of substantive offences: the unlawful homicides, sexual offences and offences of dishonesty. These are followed by an examination of the general defences of self defence, necessity and duress. The extended forms of liability for attempt, complicity and statutory offences of preparation and association are covered before moving to a consideration of strict and absolute liability in state and federal criminal law. The course concludes with an examination of denials of criminal responsibility on the ground of incapacity resulting from infancy, mental illness or impairment, physical or psychological trauma and intoxication.

LAW 2504
Administrative Law

3 units - semester 2

36 hours

Prerequisite: LAW 1504

Assumed Knowledge: LAW 2501

Incompatible: LAW 2002

Assessment: Typically to include class participation, interim essay & final exam

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 of 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: State and Commonwealth avenues of review; the distinction between judicial review and review 'on the merits'; error of law and error of fact; justiciability and standing; procedural fairness; ultra vires and abuse of discretion; jurisdictional error, privative clauses and judicial review remedies.

LAW 2505
Corporate Law

6 units - semester 2

48 hours

Prerequisite: LAW 1501

Assumed Knowledge: LAW 2502

Incompatible: LAW 2004

Assessment: Typically to include exam and essay style assessment

This course deals with the following topics: ii) types of commercial/trading associations; ii) incorporation under the Corporations Act including the incorporation process and the types of corporations that may be incorporated; iii) the consequences of incorporation including the concept of corporate personality; iv) the regulation of the internal affairs of a corporation including the role of the corporate constitution and the way in which a corporation is managed and administered; v) dealing with a corporation including the contractual liability of a corporation; vi) share capital and company membership; vii) debt capital including credit and security arrangements; viii) the duties and liabilities of directors and other officers of a corporation; ix) the legal remedies and powers of members of a corporation; x) the regulation of corporations in financial difficulty including the administration and the winding up processes.

LAW 2507
Australian Legal History

3 units - semester 1 or 2

24 hours

Prerequisite: LAW 1501

Assumed Knowledge: LAW 1504, LAW 1502, LAW 1503, LAW 1505

Incompatible: LAW 2006

Assessment: Typically will include essay and exam

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 2508
Comparative Law

3 units - semester 1

24 hours

Prerequisite: LAW 1501

Assumed Knowledge: LAW 1503 and LAW 1502

Incompatible: LAW 3016

Assessment: Typically to include optional research essay and end of semester exam

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; the impact of ideological, religious and constitutionally entrenched values upon legal systems; conflicts of values, particularly in multicultural societies; 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, differing standards of interpretation of statute law, the courts' approaches to novel issues and 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 2509
Commercial Law and the Market

3 units - semester 1

24 hours

Prerequisite: LAW 1503

Incompatible: LAW 2020

Assessment: Typically to include a research essay and class participation

This course examines the relationship between commercial law and the market. The course begins with 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 2510
Consumer Protection and Unfair Trading

3 units - semester 1

24 hours

Prerequisite: LAW 1501, LAW 1503

Incompatible: LAW 2022

Assessment: Typically to include class participation, oral presentation, optional essay, optional test, final exam

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 2511
Environmental Law

3 units - semester 1

24 hours

Prerequisite: LAW 1501

Assumed Knowledge: LAW 2501

Incompatible: LAW 2070

Assessment: Typically to include class participation & written work

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 2512
Family Law

3 units - semester 1

24 hrs

Prerequisite: LAW 1501

Assumed Knowledge: LAW 1506

Incompatible: LAW 2015

Assessment: Typically to include an essay, final exam, and seminar participation

The law of marriage and divorce within the constitutional context and the Family Law Act. Child welfare including custody, access. Matrimonial property and spousal maintenance. Legal ethics in the practice of Family Law.

LAW 2513
Human Rights:International & National Perspectives

3 units - semester 2

24 hours

Prerequisite: LAW 1501

Incompatible: LAW 2085

Assessment: Typically to include class participation and an essay

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 2514
Intellectual Property Law

3 units - semester 1

24 hours

Prerequisite: LAW 1506

Incompatible: LAW 2059

Assessment: Typically to include class participation and an exam

This course aims, through a treatment of laws relating to patents, trademarks, confidential information and copyright, to examine the protection provided by the law in regard to ideas, inventions, information and other forms of creative effort. The course also aims to explore how the law must balance interests and protect investment while taking into account 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 2515
Law of the Person

3 units - semester 1 or 2

24 hours

Prerequisite: LAW 1501

Incompatible: LAW 2099

Assessment: Typically to include class participation, research essay

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 2516
Medical Law and Ethics

3 units - semester 1

24 hours

Prerequisite: LAW 1501

Incompatible: LAW 2021

Assessment: Typically to include class participation, research essay, exam

The course provides an introduction to ethics generally and more specifically to medical ethics, examining in particular the principle of autonomy, which informs much of medical law. 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. Selected medico-legal issues over a human life are also examined. These may include reproductive technologies, foetal rights, research on human subjects, organ donation, the rights of the dying and the legal definition of death.

LAW 2517
Minerals and Energy Laws

3 units - semester 1 or 2

24 hours

Prerequisite: LAW 1506

Incompatible: LAW 2096

Assessment: Typically to include class participation & written work

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 2518
Moot Court

3 units - summer semester or semester 1 or 2

24 hours

Restriction: Students are only able to undertake Moot Court once during their studies.

Team by selection only

Prerequisite: LAW 1501

Assessment: Typically to include preparation of written memorial and Moot presenations

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 2519
Native Title Internship Program

3 units - summer semester or semester 1 or 2

24 hours

By selection only - selected students will have secured an Aurora Project Native Title Internship

Prerequisite: LAW 1506

Assessment: Typically to include the preparation of a portfolio related to the placement and a research essay

The course places students in “internships” with native title representative bodies and other organisations which deal with native title in Australia for a period of six weeks. The internships enable students to build on their understanding of the theory of native title law by gaining an appreciation of its practical operation. The course aims to give depth and context to students existing knowledge of native title law.

Associated with the internship students will be asked to complete an agreed research task under the supervision of the course coordinator. The research task might involve research into a specific aspect of native title law or procedure. The research task will be negotiated with the student and the course coordinator, and will build on the work the student completes within the host organisation. It is expected that students will also be involved in day-to-day activities of their host organisation and gain a broad understanding of how such organisations operate and of the operation of native title law generally.

LAW 2520
Public International Law

3 units - semester 2

24 hours

Prerequisite: LAW 1501

Incompatible: LAW 2520

Assessment: Typically to include a research essay, class participation

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.

LAW 2521
Property Theory

3 units - semester 1 or 2

24 hours

Prerequisite: LAW 1506

Incompatible: LAW 2074

Assessment: Typically to include group work, participation in seminars, individual and group written work and a final essay

This course considers historical and current legal, political and philosophical theories of property and their applicability to social context. Theorists such as John Locke, William Blackstone, JW Harris, CB Macpherson, Stephen Munzer, Margaret Jane Radin, Carol Rose, Joseph William Singer and Laura Underkuffler will be

examined. Using these theories of property, the course explores the role and justification of property-as law and as theory. The course will make use of inter- and cross-cultural and interdisciplinary resources.

LAW 2522
Roman Law

3 units - semester 1 or 2

24 hours

Prerequisite: LAW 1506

Incompatible: LAW 2023

Assessment: Typically to include participation and essay

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? This will be explored using the Roman law as a starting point. The historical Roman law itself and its comparison with the operation of modern common and civil law traditions will be explored in the first two-thirds of the subject, with canon law comprising the final third.

LAW 2523
Succession

3 units - semester 2

24 hours

Prerequisite: LAW 1506

Incompatible: LAW 2062

Assessment: Typically to include a problem style assignment , and essay style assignment, and an exam

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, and the choice of law principles that govern the law applicable to succession issues which are connected to more than one jurisdiction.

LAW 2524
Criminology

3 units - semester 2

24 hours

Prerequisite: LAW 1501

Incompatible: LAW 2122

Assessment: Typically to include a research essay, final exam, and seminar participation

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 analysis and uses of criminal statistics.

LAW 2526
Legal Theory

3 units - summer semester

24 hours

Prerequisite: LAW 1501

Incompatible: LAW 2064

Assessment: Typically to to include essay and class participation

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 2555
Principles of Administrative Law

1 units - semester 2

8 hours

Prerequisite: LAW 2003

Incompatible: LAW 2002

Assessment: Typically to include a written research assignment

This transition course will be offered in the first four weeks of the semester. Enrolment will be restricted to students who have already completed the old curriculum Australian Constitutional Law (Law 2003) but have outstanding the old curriculum Administrative Law (Law 2002).

The primary emphasis will be on the legal and political mechanisms for holding Commonwealth and State governments accountable, the role of the courts in holding governments accountable through the mechanism of judicial review, freedom of information law, and the role of the Commonwealth ombudsmen and the Auditor-General in the accountability framework.

LAW 2556
Criminal Procedure

2 units - semester 1

16 hours

Prerequisite: LAW 1004

Incompatible: LAW 3002

Assessment: Typically to include writing a research paper

This transition course will be presented in Weeks 3 [or 4] and 4 [or 5] of the Criminal Law and Procedure course. Enrolment will be restricted to students who have already complete Law of Crime and will not have the opportunity to study Civil and Criminal Procedure in 2009.

The primary emphasis will be on charge selection, charge negotiation and the prosecutorial obligations relating to fair trial. It is anticipated that the Nemer case will be used as a case study, for it usefully straddles: (a) the role and constitution of the DPP's Office; (b) charge selection; (c) reform of the law of offences against the person and (d) guilty plea negotiation.

LEVEL III

LAW 3505
Aboriginal Peoples and the Law

3 units - semester 1 or 2 (Not offered until 2010)

24 hours

Prerequisite: LAW 1501

Incompatible: LAW 2026

Assessment: Typically to include group work and an essay or exam

A critical analysis of the legal and historical relationships between Aboriginal and non-Aboriginal peoples. The course will consider the theory, policy and law relating to Aboriginal sovereignty, self-government, native title, cultural heritage protection, customary law and identity. It will look at Aboriginal challenges to government law and policy, including reparations for the stolen generations and claims of genocide. The course will analyse these topics predominantly through a series of major case studies, and studies of particular legislative schemes.

LAW 3506A/B
Adelaide Law Review

3 units - full year (Not offered until 2010)

12 hours a semester

Prerequisite: LAW 1501

Incompatible: LAW 2027 and LAW 2028

Assessment: Typically to include editorial activities, case notes, participation

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 3508
Australian Federal Criminal Law

3 units - semester 1 or 2 (Not offered until 2010)

24 hours

Prerequisite: LAW 1501

Assumed Knowledge: LAW 2503

Incompatible: 2032

Assessment: Typically to include Class participation , Group presentation, and either exam or research essay on an approved topic

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 contains 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; Terrorism, 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 3509
Anti-discrimination and Equality Law

3 units - semester 2 (Not offered until 2010)

24 hours

Prerequisite: LAW 1501

Assumed Knowledge: LAW 1504, LAW 2501 and LAW 2504

Incompatible: LAW 3014

Assessment: Typically will include class participation and essay

The course will cover important aspects of Australian anti-discrimination and equality law at both Federal and State levels. Analysis of the law will be placed in a broader context: justifications for anti-discrimination law and the principle of non-discrimination will be examined. The scope of existing Federal and State prohibitions

on discrimination, and exceptions to prohibitions, will be examined, as will mechanisms for enforcing the legislation and remedies. The course will make clear the assumptions that underlie traditional thinking concerning anti-discrimination legislation, and expose these to critical scrutiny.

LAW 3510
Clinical Legal Education

3 units - summer or semester 1 or 2 (Not offered until 2010)

24 hours*

Prerequisite: LAW 2504

Assumed Knowledge: LAW 3501

Incompatible: LAW 3080

Assessment: Typically to include placement performance , class participation, project (no word limit) & journal (no word limit)

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 offered over summer course entails 2 days of placement each week for 6 weeks between January and end of February.

LAW 3511
Commercial Equity

3 units - semester 2 (Not offered until 2010)

24 hours

Prerequisite: LAW 2502

Incompatible: LAW 2100

Assessment: Typically to include essay and exam

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 3512
Conflict of Laws

3 units - semester 2 (Not offered until 2010)

24 hours

Prerequisite: LAW 1503, LAW 1502, LAW 1501, LAW 1504

Assumed Knowledge: LAW 1506, LAW 2501

Incompatible: LAW 2104

Assessment: Typically to include the choice of a major research essay or an exam and class participation

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.

Because questions of jurisdiction are quite thoroughly covered in the compulsory course on civil procedure, that topic is given light coverage in this course. The central thrust of the course is the law governing choice of applicable law.

LAW 3513
Financial Transactions

3 units - semester 1 (Not offered until 2010)

24 hours

Prerequisite: LAW 1501

Assumed Knowledge: LAW 1506, LAW 2502, LAW 2505

Incompatible: LAW 2031

Assessment: Typically to include an optional essay, and an exam

The course introduces students to legal and commercial issues arising from selected transactions that directly or indirectly generate finance and /or credit. The specific topics covered in the course are as follows:

Bank financing through overdrafts on current account and term loans; letters of credit and performance bonds; finance/bank bills; lease financing; provision of credit or finance through reservation of title clauses or Quistclose trust; financing against receivables; letters of credit and performance bonds; securing financial obligations; guarantees.

LAW 3514
Human Rights Internship Programme

3 units - summer or semester 1 or 2 (Not offered until 2010)

24 hours

Prerequisite: LAW 1501

Assumed Knowledge: LAW 2513

Incompatible: LAW 2017

Assessment: Typically to require a portfolio details which will be supplied before commencement of the 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 and supervision 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 3515
Immigration and Refugee Law

3 units - semester 2 (Not offered until 2010)

24 hours

Prerequisite: LAW 1501

Assumed Knowledge: LAW 1503

Incompatible: LAW 3022

Assessment: Typically to include class participation, research essay, exam

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 3516
Jessup Moot

3 units - summer semester (Not offered until 2010)

24 hours

Prerequisite: LAW 1501

Assumed Knowledge: LAW 2520

Incompatible: LAW 2084

Assessment: Typically to include preparation of written memorials, and Moot presentations.

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 3517
Law of Work

3 units - summer semester (Not offered until 2010)

24 hours

Prerequisite: LAW 1501

Assumed Knowledge: LAW 1503, LAW 1502, LAW 1505, LAW 2501

Incompatible: LAW 3044

Assessment: Typically to include class participation and an essay

This course examines the law governing work as it is evolving in the global era. It explores a range of regulatory mechanisms deployed in this area, including 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 Australian regulatory system; 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; legislated safety net conditions and awards; security at work, including dismissal law; freedom of association; workplace bargaining, and resolving conflicts at work under the law.

LAW 3519
Remedies

3 units - semester 2 (Not offered until 2010)

24 hours

Prerequisite: LAW 1506

Incompatible: LAW 2132

Assessment: Typically to include written work & exam

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) compensation (vi) account of profits.

LAW 3520
Sentencing and Criminal Justice

3 units - semester 2 (Not offered until 2010)

24 hours

Prerequisite: LAW 2503

Incompatible: LAW 2009

Assessment: Typically to include class participation, group presentation, and exam or research essay

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 course will then go on to 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.

LAW 3521
Taxation Law

3 units - semester 1 or 2 (Not offered until 2010)

24 hours

Prerequisite: LAW 1501

Assumed Knowledge: LAW 2505

Incompatible: LAW 2011, LAW 2018, LAW 3021

Assessment: Typically to include essay and exam

This course will cover the constitutional aspects of taxation and the distinction between capital and income receipts and deductions. 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 3522
Disclosure Obligations of Companies

3 units - semester 1 or 2 (Not offered until 2010)

24 hours

Prerequisite: LAW 1501

Corequisite: LAW 2505

Assumed Knowledge: LAW 1503, LAW 2502

Incompatible: LAW 2097

Assessment: typically to include a research essay and an exam

This course deals with the following topics: i) Continuous Disclosure of Material Investment Information (Corporations Act Ch 1, Part 1.2A and Ch 6CA; ASX Listing Rules); ii) Accounts and Audit Obligations of Companies (Corporations Act Ch 2M); iii) Disclosure When Corporate Securities Offered For Subscription or Purchase (Corporations Act Ch 6D); iv) Constraints on the Marketing of Corporate Securities.

LAW 3523
Company Merger and Acquisition Law

3 units - semester 1 (Not offered until 2010)

24 hours

Prerequisite: LAW 1501

Corequisite: LAW 2505

Assumed Knowledge: LAW 2502

Incompatible: LAW 2097

Assessment: Typically to include: optional research essay fully redeemable by primary exam. (hypothetical problem-type; no choice of question)

The Regulation of Changes of Control in Companies (Corporations Act Chapters 6 and 6B), The Use of Schemes of Arrangements to Effect Changes of Control (Corporations Act Chapter 5, Part 5.1). Compulsory Acquisitions of Corporate Securities and Compulsory Securities Buy-Outs (Corporations Act Chapters 6A and 6B). Disclosure of Interests in Listed Companies (Corporations Act Chapter 6C)

LAW 3599
Law Research Dissertation

6 units - semester 1 or 2 (Not offered until 2010)

48 hours

Prerequisite: LAW 2504, LAW 2505

Incompatible: LAW 3099

Assessment: 10-12,000 word supervised Dissertation

Students wishing to write a research dissertation will be selected into this elective upon the basis of their academic records - only available where School can provide appropriate supervision for research proposed

Students are required to write a supervised research dissertation on an approved topic. The dissertation will be written and assessed in accordance with procedures approved from time to time by the Dean of Law.

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 identity the subject of their dissertation, and gain the skill necessary to enable them to undertake preliminary preparatory to the writing of the honours dissertation.

LAW 3099
Dissertation Honours Law

6 units - semester 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.

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.

ADVANCED LEVEL

LING 2036
Language, Communication and Society

3 units - semester 2

3 contact hours per week

Available for Non-Award Study

Prerequisite: 12 units Level 1 Humanities/Social Sciences

Assessment: 2,500 word essays, 3,500 word research project report

It can be argued that who we are and what we are able to achieve socially is determined by the range of different forms of language which we have at our disposal. If we want to be convincing in a tutorial we have to be able to sound "academic", and if we want to work as a lawyer we must first master legal language. This course explores the ways in which language varies according to subject area, social setting, communicative purpose and the social roles and identities of those involved. It examines the workings of various forms of speaking and writing - casual conversation, interviews and interrogations, public speaking, emailing and mobile phone texting and mass media articles, to cite just some examples. Students will study the nature of meaning, how we usually convey more than we actually say or write, the role of "politeness" in verbal communication, the necessarily "cooperative" nature of most forms of communication, and what makes texts cohesive and coherent. Students will develop skills in describing the stylistic properties of texts, in characterizing the interpersonal stances adopted by speakers and writers, and in identifying and classifying the various genres or texts types which operate in particular social settings.

LING 2038
Cross Cultural Communication

3 units - semester 1

3 contact hours per week

Available for Non-Award Study

Prerequisite: 12 units Level I Humanities/Social Sciences

Assessment: 3 practical assignments (equiv to 2,000 words), 4,000 word essay or equiv report

Misunderstandings often arise when speakers of different languages, or indeed speakers of the same language communicate. Some misunderstandings are easily identified and rectified or may be of little consequences. At other times there can be a complete breakdown in communication. Serious miscommunication can even result when neither party is aware that there is any problem. Both parties may think that the other is understanding perfectly what they are saying, though a major misunderstanding is unfolding resulting in misdiagnosis, mistreatment, gross injustice, financial penalty or the like. The course seeks to identify and make explicit sources of misunderstanding through practical investigation of interactions in a range of contexts. It will specifically address the use of interpreters, the role of dialectal differences and different cultural scripts (including subcultures within the same language group). Practical means of identifying and minimising misunderstandings will be promoted.

This course will be of interest to a wide range of students, including students of Linguistics, Medicine, Nursing and other health professions, Law, Media, Education, Social Work, languages etc.

LING 2039
Reclaiming Languages: A Kaurna Case Study

3 units - semester 2

3 contact hours per week

Available for Non-Award Study

Prerequisite: 12 units Level I Humanities/Social Sciences

Incompatible: LING 2007/3007

Assessment: 3 practical assignments (equiv to 2,000 words), take home (open book) exam (equiv to 2,000 words), 2,000 word essay or equiv report

The course explores issues around the reclaiming of languages by reference to the case of Kaurna, the South Australian indigenous language spoken in what is now known as the Adelaide region. The course gives a fascinating insight into the ways in which Kaurna sources are being used to forge a new Kaurna identity and develop an associated language which is being used to address contemporary needs. This course will allow you to: learn some Kaurna language; develop an understanding of the structure of the Kaurna language; understand the context (or ecology) in which the Kaurna language existed at the time of colonisation in the 1830s and 1840s; and appreciate the circumstances under which the Kaurna language is being revived. Parallels and contrasts will be drawn between efforts to re-introduce Kaurna and similar efforts in neighbouring languages, elsewhere in Australia and overseas.

LING 2040
Phonology

3 units - semester 1

3 contact hours per week

Prerequisite: 12 units Level I Humanities/Social Sciences including LING 1101 Foundations of Linguistics

Incompatible: LING 2012/3012

Assessment: 5 practical assignments (equiv to 4,500 words) 75%, exam (equiv to 1,500 words) 25%

Almost all of us use spoken language everyday. We express ourselves through speech in a multitude of ways. Pronunciation immediately identifies each of us as belonging to a certain ethnic group, social class, locality, age group and gender. This course investigates the nature of speech sounds, the mechanisms of speech production and perception and the ways by which these sounds are classified into a fixed inventory of meaningful sounds, the phoneme inventory, by speakers of a language. Students will learn how to transcribe speech sounds using phonetic symbols (International Phonetic Alphabet or IPA). Students will compare and contrast the sound systems of a variety of languages. A particular focus of this course will be developing understandings of the relationship between speech and writing in a range of languages, including English. This course is essential for all linguistics students, language teachers (English or otherwise) and newsreaders. The course will also be of interest to many students of psychology, anthropology and social inquiry.

CAPSTONE

LING 3100
Linguistic Data, Description and Analysis

3 units - semester 2 (Not offered until 2010)

3 contact hours per week

Prerequisite: 15 units in Linguistics, of which no more than 6 units may be from Level I, including at least one of Language and Meaning or Discourse, Communication and Culture, and at least one of Phonology or Morphology and Syntax

Assessment: Practical exercises equivalent to 2,000 words, essay or research project equivalent to 4,000 words

Language is largely a subconscious phenomenon, most of which cannot be directly observed. Linguistics has developed a profusion of theories and methods. This course will provide students with criteria for assessing the suitability of available approaches to specific research tasks. They will be alerted to the interrelationship between theories and data, the difference between primary and secondary data and the problem of neglecting significant data because of the limitations of the theoretical framework employed.

Students will be introduced to the methods employed in the collection of introspective and empirical data and the task of designing research instruments and methodologies. Students will be able to choose from a range of tasks according to their research interests and previous background in linguistic studies, including an archival/library task, practical fieldwork, text/discourse analysis, a corpus linguistic investigation, a language learning investigation, and so on.

Both qualitative and quantitative approaches to the analysis of linguistic data will be dealt with. The various ways of presenting data (prose, tables, charts, maps etc.) and their appropriateness for different purposes will be introduced and practised.

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 Advanced Level 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 2500
Organisational Behaviour II

3 units - semester 2

2 lectures, 1 tutorial, 9 hours self-directed study per week

Assumed Knowledge: one semester of university study

Assessment: Typically exam 60%, mid-semester test 15%, essay 20%, tutorial participation 5%

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 2501
Management II

3 units - semester 1

2 lectures, 1 tutorial, 9 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, COMMGMT 2501 or AGRIBUS 2016

Assessment: Exam, essays, test and tutorial participation as determined at the first lecture

This course introduces students to the roles and functions of managers. The content includes an introduction to organisations and the need for and nature of management. It examines the evolution of management theory, organisational environments, and corporate social responsibility and ethics. The course also includes a detailed investigation of the four functions of management: planning and decision making, organising, leading and motivating, and controlling.

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 or COMMGMT 2501

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 or COMMGMT 2500, at least 50%

Assessment: Written exam not less than 50%, assignments as determined at first lecture

It is generally agreed that, while most serious competitors in any given industry are likely to have attained nearly the same level of technological sophistication, what can set these organisations apart is the quality of their people. Thus, other things being equal, the most effective organisations (in terms of productivity, customer service, reputation etc.) are likely to be those that have the most dedicated and talented employees. Human Resource Management (HRM) is that part of management which is concerned with how organisations can make the most effective use of their human resources - their people - in order to achieve organisational and individual goals. The aim of this course is to provide students with an understanding of contemporary HRM and the important strategic role that it plays in helping an organisation build and maintain competitive advantage. More specifically, the course will examine HR policies, practices, and systems in the areas of: planning and recruitment; employee selection; training and development; performance management; compensation; employee relations; equal opportunity; employee security and safety; employee separation; and international HRM.

COMMGMT 3015
Organisational Dynamics III

4 units - semester 2

2 lectures, 1 tutorial per week

Available for Non-Award Study

Prerequisite: COMMGMT 2008 or COMMGMT 2501

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.

COMMGMT 3500
International Management III

3 units - semester 1 (Not offered until 2010)

2 lectures, 1 tutorial, 8 hours self-directed study per week

Assumed Knowledge: COMMGMT 2008 OR COMMGMT 2501

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 3501
Strategic Management III

3 units - semester 2 (Not offered until 2010)

2 lectures, 1 tutorial, 8 hours self-directed study per week

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 3502
Human Resource Management III

3 units - semester 1 (Not offered until 2010)

2 lectures, 1 tutorial, 8 hours self-directed study per week

Prerequisite: COMMGMT 2007 or COMMGMT 2500 (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 3503
Organisational Dynamics III

3 units - semester 2 (Not offered until 2010)

2 lectures, 1 tutorial per week

Prerequisite: COMMGMT 2008 OR COMMGMT 2501

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 2500
Marketing II

3 units - semester 1

2 lectures, 1 tutorial, 9 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, MARKETNG 2500 or WINEMKTG 1013

Assessment: Typically final exam 60%, group audit 20%, participation 10%, class test 5%, group presentation 5%

This course is designed to provide students with an understanding of the principles of Marketing. There will be a focus on the management of the marketing activities and how marketing relates to overall organisational functioning, including the management of exchange processes between business units and consumers and between firms. It will include topics such as environmental analysis, industry and competitor analysis, objective setting, marketing strategies, market mix components, and finally implementation and control mechanisms. Additionally, the course will provide opportunities for the practical implementation of the main concepts covered and the development of problem solving skills through the use of case studies and an audit of a firm's marketing function.

MARKETNG 2501
Consumer Behaviour II

3 units - semester 2

2 lectures, 1 tutorial, 8 hours self-directed study per week

Available for Non-Award Study

Assumed Knowledge: MARKETNG 2009 OR MARKETNG 2500

Incompatible: not to be counted with MARKETNG 3013 or WINEMKTG 2033

Assessment: Typically exam 50% , individual assignment 20%, group presentation 10%, mid-semester test 10% tutorial participation 7%, discussion board participation 3%

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 or MARKETNG 2500

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 or MARKETNG 2500

Assumed Knowledge: MARKETNG 2011or MARKETNG 2501

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 3020
Market Research III

4 units - semester 2

2 lectures, 1 tutorial

Prerequisite: MARKETNG 2009 or MARKETNG 2500

Assumed Knowledge: MARKETNG 2011 or MARKETNG 2501

Incompatible: MARKETNG 3017

Assessment: Typically final exam 50%, research report & client presentation 40%, case study 10%

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. 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.

MARKETNG 3021
Market Strategy and Project III

4 units - semester 2

2 lectures, 1 tutorial, 8 hours of self-directed study per week

Prerequisite: MARKETNG 2009 or MARKETNG 2500 or MARKETNG 2011 or MARKETNG 2501 or MARKETNG 3020;

Corequisite: MARKETNG 3020

Incompatible: MARKETNG 3017

Assessment: Typically final exam 50%, research report & client presentation 40%, case study 10%

This is a capstone course for students completing the Bachelor of Commerce (Marketing). The course integrates market theory and management practices, within the context of marketing strategies and different competitive situations. Students will develop a marketing plan for a live client firm, on the basis of market theory, market research and the potential strategic directions available to their client. Students will be responsible for presenting their findings in both written and oral form to their clients.

MARKETNG 3500
Marketing Communications III

3 units - semester 1 (Not offered until 2010)

2 lectures, 1 tutorial, 8 hours self-directed study per week

Prerequisite: MARKETNG 2009 or MARKETNG 2500

Assessment: Exam, assignments as per course outline

Syllabus details to be advised.

MARKETNG 3501
International Marketing III

3 units - semester 2 (Not offered until 2010)

2 lectures, 1 tutorial, 8 hours self-directed study per week

Available for Non-Award Study

Prerequisite: MARKETNG 2009 OR MARKETNG 2500

Assumed Knowledge: MARKETNG 2011 OR MARKETNG 2501

Incompatible: WINEMKTG 2014

Assessment: Group work on case studies, major project, final exam

Syllabus details to be advised.

MARKETNG 3502
Market Research III

3 units - semester 1 (Not offered until 2010)

2 lectures, 1 tutorial

Prerequisite: MARKETNG 2009 OR MARKETNG 2500

Assumed Knowledge: MARKETNG 2011 OR MARKETNG 2501

Incompatible: not to be counted with MARKETNG 3012 or WINEMKTG 2011

Assessment: Final exam 50%, research report, client presentation 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. 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.

MARKETNG 3503
Market Strategy and Project III

3 units - semester 2 (Not offered until 2010)

2 lectures, 1 tutorial per week

Prerequisite: MARKETNG 2009 OR MARKETNG 2500, MARKETNG 2011 OR MARKETNG 2501, MARKETNG 3502

This is a capstone course for students completing the Bachelor of Commerce (Marketing). The course integrates market theory and management practices, within the context of marketing strategies and differenent competitive situations. Students will develop a marketing plan for a live client firm, on the basis of market theory, market research and the potential strategic directions available to their client. 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 per week and some computer practicals using the 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 and permutations and combinations; 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. Math Sci, B.Ma.& Comp. Sc. or B Comp Sci

Available for Non-Award Study

Incompatible: cannot be presented with ECON 1005I, 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. This course includes 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. Math Sci, B.Ma.& Comp. Sc. or B.Comp Sci

Available for Non-Award Study

Prerequisite: MATHS 1009

Incompatible: MATHS 1011/1012, 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: 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: MATHS 1007A/B or MATHS 2004 or MATHS 2105

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 to 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.

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, ECON 1008, STATS 2004, APP MTH 2009, APP MTH 2010 or STATS 1504

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.

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 Mathematical Applications or Mathematical Methods or Mathematics I

Assessment: Exam, assignments, major project

This course is an introduction to the quantitative methods used in agriculture and nature resource management. Statistical topics include the organisation, description and presentation of data; the design of experiments; the use of inference to draw conclusions from data; tests of significance for mean and proportions; confidence intervals; goodness of fit tests; regression and analysis of variance. Biomathematical topics include the construction and use of mathematical models, and an introduction to calculus.

STATS 1004
Statistical Practice I (Life Sciences)

3 units - semester 2

3 lectures, 1 tutorial, 1 hour practical per week

Available for Non-Award Study

Assumed Knowledge: SACE stage 2 Mathematical Methods or equiv

Incompatible: Cannot be counted with STATS 1000, ECON 1008, STATS 2004, APP MTH 2009, APP MTH 2010 or STATS 1504

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.

STATS 1504
Statistical Practice I (Life Sciences) (Pre-Vet)

3 units - semester 2

3 lectures, 1 tutorial, 1 hour practical per week

Restriction: B Science (Animal Science: Pre-Vet)

Assumed Knowledge: SACE stage 2 Mathematical Methods or equiv

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

APP MTH 2105
Optimisation and Operations Research

3 units - semester 2

30 hrs lectures, 6 hrs practical, 6 hrs tutorials

Available for Non-Award Study

Prerequisite: MATHS 1012 or MATHS 2004

Incompatible: Cannot be presented with APP MTH 2008

Assessment: Final exam, practicals and/or assignments

Operations Research (OR) concerns using a variety of mathematical techniques to improve business and industry. The term operations research derives from its early use in military operations, but it is often used synonymously with management science, though the latter might concentrate more on the business processes, rather than mathematics. OR is an interdisciplinary topic drawing from mathematical modelling, optimisation theory, game theory, decision analysis, statistics, and simulation to help make decisions in complex situations. This course concentrates on mathematical modelling and optimisation: for example maximising profit, production capacity, or minimising risk, costs, delays, etc. It has applications in every major Australian industry, and the developing sophistication of the available mathematical tools coupled with the increasing power of computers has led to most major companies applying some aspects of optimisation in their daily operations. This course is a first introduction focusing on linear optimisation problems involving both continuous, and integer variables. The course covers a variety of mathematical techniques for optimisation, and the theory behind them. Examples will be presented from important application areas, including telecommunications, transportation, and manufacturing.

APP MTH 2106
Financial Computing II

3 units - semester 1

54 hrs lectures and computer practicals

Prerequisite: SACE Stage 2 Mathematical Studies or equiv

Assumed Knowledge: Spreadsheets, as from STATS 1000 or ECON 1008

Incompatible: 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.

MATHS 2100
Real Analysis

3 units - semester 2

36 hrs lectures, 6 hrs tutorial

Available for Non-Award Study

Prerequisite: MATHS 1012 or MATHS 2004

Incompatible: PURE MTH 2003, PURE MTH 3017 or Real Analysis (Pre 2001)

Assessment: Assignments, and/or Practicals, 3 hour final exam

This course is an introduction to the fundamentals of mathematical analysis in the setting of the real line, followed by some basic metric space theory, concluding with a proof of an existence and uniqueness theorem for solutions of ordinary differential equations.

The course also serves as an introduction to mathematical proofs and arguments. Topics discussed will include: Basic set theory. The real numbers, least upper bounds, completeness and its consequences. Sequences: convergence, subsequences, Cauchy sequences. Open, closed, and compact sets of real numbers. Continuous functions, uniform continuity. Differentiation, the Mean Value Theorem. Sequences and series of functions, pointwise and uniform convergence. Power series and Taylor series. Metric spaces: basic notions generalised from the setting of the real numbers. The space of continuous functions on a compact interval. The Contraction Principle. Picard's Theorem on the existence and uniqueness of solutions of ordinary differential equations.

MATHS 2101
Multivariable & Complex Calculus

3 units - semester 1

36 hrs lectures, 6 hrs tutorials

Available for Non-Award Study

Prerequisite: MATHS 1012 or MATHS 2004

Incompatible: PURE MTH 2005, PURE MTH 3016, MATHS 2202 or Real Analysis prior to 2002

Assessment: Assignments, practicals, final exam

This course presents students with the core material on multivariable calculus followed by an introduction to complex calculus. Topics discussed will include: Differentiation of vector-valued functions and applications; classical vector calculus; the Implicit Function Theorem and Lagrange multipliers. Multiple integrals; Green's, Stokes' and the Divergence theorems. Complex numbers and functions; complex differentiation; conformal mappings and Cauchy's theorem.

MATHS 2102
Differential Equations

3 units - semester 1

36 hrs lectures, 6 hrs tutorials

Available for Non-Award Study

Prerequisite: MATHS 1012 or MATHS 2004

Incompatible: APP MTH 2007, APP MTH 2000, APP MTH 2010, APP MTH 2010, MATHS 2201

Assessment: Final exam, practicals and/or assignments

This course is an introduction to the fundamentals of the theory and application of differential equations. Topics discussed will include: ordinary differential equations, initial value problems, separable, linear and exact differential equations; Linear higher order ODEs, existence, uniqueness, Wronskian test for linear independence; inhomogeneous versus homogeneous, method of underdetermined coefficients, variation of parameters, vibrational models. Laplace transforms and application to ODEs; partial differential equations, examples of heat equation, wave equation, Laplace's equation. Euler-Cauchy equation. Method of separation of variables. Fourier series, the Fourier integral and Fourier transforms. Waves on a string and solution using Fourier series, waves on a circular membrane, Bessel's equation. Linear odes with variable coefficients, power series solutions, ordinary versus singular points. Solution of PDEs using Laplace transforms, D'Alembert's solution. Systems of ODEs.

MATHS 2103
Probability & Statistics

3 units - semester 1

36 hrs lectures, 6 hrs tutorials

Available for Non-Award Study

Prerequisite: MATHS 1012 or MATHS 2004

Incompatible: STATS 2002, STATS 2003, STATS 2011

Assessment: Final exam, practicals and/or assignments

This course is intended to provide an introduction to the core ideas of probability theory, random variables and Markov processes. Throughout, the emphasis is on theory and application of probability and random variables as tools for modelling rather than on the more technical distributions that arise in statistical theory. Topics discussed include: Set notation, probability axioms; Conditional probability; Bayes' Theorem; Discrete random variables; Moments; Standard discrete distributions; Bounding probabilities for discrete random variables, Markov's inequality; Probability generating functions; Continuous random variables. Uniform, normal, Cauchy, exponential, gamma and chi-square distributions. Point processes; Transformations of random variables; Discrete bivariate distributions, marginal and conditional distributions; Continuous bivariate distributions, independence of random variables; Covariance and correlation. Mean and variance of linear combination of two random variables; The bivariate normal distribution, marginal and conditional distributions, linear combinations of independent random variables; Sequences of independent random variables and the weak law of large numbers; The central limit theorem; Definition and properties of a Markov chain and probability transition matrices; methods for solving equilibrium equations, absorbing Markov chains.

MATHS 2104
Numerical Methods

3 units - semester 2

This course develops the mathematical foundations of the numerical approximation and solution of equations represented in the form of either algebraic equations or ordinary differential equations. Topics covered included: errors, approximation and convergence, numerical linear algebra (excluding numerical determination of eigenvalues and eigenvectors), quadrature, numerical solution of odes (initial value problems), Numerical solution of non-linear systems of equations, interpolation and extrapolation, numerical linear algebra (including numerical determination of eigenvalues and eigenvectors), random numbers, simulation.

MATHS 2105
Mathematics IIM

3 units - summer semester or semester 1 or 2

4 lectures, 2 tutorials per week

Available for Non-Award Study

Prerequisite: MATHS 1011, MATHS 1013 (Pass)

Incompatible: MATHS 1012

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.

MATHS 2201
Engineering Mathematics 1

3 units - semester 1

36 hrs lectures, 6 hours tutorials

Available for Non-Award Study

Prerequisite: MATHS 1012 or MATHS 2004

Incompatible: APP MTH 2000, APP MTH 2007, APP MTH 2010, MATHS 2102, STATS 2004, STATS 1000

Assessment: Final exam, assignments and/or practicals

This course introduces students to the fundamentals of engineering mathematics, through the solution of differential equations and basic probability and statistical methods. 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. Probability and statistical methods: Sampling and probability, descriptive statistics, random variables and probability distributions, mean and variance, linear combinations of random variables. Statistical inference for means and proportions. Linear regression.

MATHS 2202
Engineering Mathematics II

3 units - semester 2

36 hrs lectures, 6 hrs tutorials

Available for Non-Award Study

Prerequisite: MATHS 1012 or MATHS 2004

Assumed Knowledge: MATHS 2102 or APP MTH 2000 or APP MTH 2007

Incompatible: APP MTH 2002, APP MTH 2006 or MATHS 2101

Assessment: Final exam, assignments and/or practicals

This course introduces students to the fundamentals of engineering mathematics, with the study of vector and integral calculus, complex analysis and Laplace transforms. Topics covered include: 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. Laplace transforms of derivatives and integrals, applications to differential equations.

PURE MTH 2106
Algebra

3 units - semester 1

36 hrs lectures, 6 hrs tutorials

Available for Non-Award Study

Prerequisite: MATHS 1012 or MATHS 2004

Incompatible: Cannot be presented with PURE MTH 2002

This course will introduce students to the basics of abstract algebra through an introduction to group theory and to linear algebra. Topics discussed will include: Groups: symmetry, permutation groups, subgroups, Lagrange's theorem. Linear algebra: Vector spaces, bases, dual spaces, quotient spaces, bilinear forms, canonical forms.

STATS 2107
Statistical Modelling and Inference

3 units - semester 2

30 hrs lectures, 6 hrs tutorials, 6 hrs practicals

Available for Non-Award Study

Prerequisite: MATHS 1012 or MATHS 2004

Assumed Knowledge: STATS 1000 or STATS 1004, MATHS 2103

Incompatible: Cannot be presented with STATS 2011

Assessment: Final exam, assignments and/or practicals

This course provides an introduction to the principles of statistical inference and the application of linear statistical models. The emphasis is both on the systematic mathematical development of the fundamental material and an extensive illustration of its practical application including detailed examples and case studies. The use of a high level statistical package is introduced through a sequence of computer practicals. Topics discussed will include: Point estimates, unbiasedness, mean-squared error, confidence intervals, tests of hypotheses, power calculations, derivation of one and two-sample procedures. Simple linear regression, regression diagnostics, prediction. Linear models, ANOVA, multiple regression, factorial experiments, analysis of covariance models, model building. Likelihood methods for estimation and testing, goodness of fit tests. Sample surveys, population means, totals and proportions, simple random samples, stratified random samples.

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 2000 or 2010 or MATHS 2201 & computer programming language such as Matlab, Fortran or C

Assessment: 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: Markov Chains such as in APP MTH 2008 or MATHS 2103

Assessment: 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 2007 or 2010 or MATHS 2201 or 2102, APP MTH 2002 or 2006 or MATHS 2202 or 2101

Assessment: Assignments 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 3004
Mathematical Biology III

3 units - Not offered in 2009

36 hours lecture and tutorials

Available for Non-Award Study

Prerequisite: Pass in MATHS 1012 or MATHS 2004

Assumed Knowledge: APP MTH 2000 or 2007 or 2010 or MATHS 2201 or 2102

Assessment: 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 on how to develop (and interpret) good biological models. No previous exposure to biology is necessary.

APP MTH 3005
Mathematical Programming III

3 units - semester 2

36 hours lectures, tutorials

Available for Non-Award Study

Prerequisite: Pass in MATHS 1012 or MATHS 2004

Assumed Knowledge: Duality theory as in APP MTH 2008 or 2105

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 - semester 2

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 or MATHS 2102 or 2201

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 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: Assignments 15%, final exam 85%

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 2007 or 2010 or MATHS 2201 or 2102

Assessment: 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: Linear programming as in APP MATH 2008 or 2105

Assessment: 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 Annealling or Genetic algorithms; constrained optimisation, including Kuhn-Tucker conditions and the Gradient Projection Method. Other topics such as penalty methods, quasi-convexity, etc, will be covered as time permits.

APP MTH 3016
Telecommunications Systems Modelling III

3 units - semester 2

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 or MATHS 2103

Incompatible: APP MTH 3015

Assessment: Assignments 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 or 2

36 hours lectures, tutorials

Available for Non-Award Study

Prerequisite: Pass in MATHS 1012 or MATHS 2004

Assumed Knowledge: APP MTH 2000, 2007 or 2010 or MATHS 2201 or 2102

Assessment: 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.

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: CHEM ENG 3004, C&ENVENG 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: 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 - Not offered in 2009

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 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 or PURE MTH 2106

Incompatible: 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, MATHS 2100, 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. Further topics from integration and differentiation, Fourier series, measure and 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 or PURE MTH 2106

Incompatible: 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, PURE MTH 2002 or PURE MTH 2106 should see the Pure Mathematics Head of Discipline

Incompatible: 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.

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 2004, APP MTH 2009, APP MTH 2010, MATHS 1504 or MATHS 2201

Assessment: 2 hour exam, class exercises, practicals, project work

Reliability definitions, types of failure, confidence levels, mtbf concepts, predication of reliability from life test data. Quality control and assurance: definition of quality, data presentation, quality control methods. Total quality management: measurement and audit methods. Quality improvement.

STATS 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 2004, APP MTH 2009, APP MTH 2010, MATHS 1504 or MATHS 2201

Assumed Knowledge: STATS 2011 or STATS 2107

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 2009

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 2004, APP MTH 2009, APP MTH 2010, MATHS 1504 or MATHS 2201

Assumed Knowledge: At least one of STATS 2002, STATS 2003, STATS 2011 or STATS 2107

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 2004, APP MTH 2009, APP MTH 2010, MATHS 1504 or MATHS 2201

Assumed Knowledge: At least one of STATS 2002, STATS 2003, STATS 2011 or STATS 2107

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 2004, APP MTH 2009, APP MTH 2010, MATHS 1504 or MATHS 2201

Assumed Knowledge: STATS 2011 or STATS 2107

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, APP MTH 2010, MATHS 1504 or MATHS 2201

Assumed Knowledge: At least one of STATS 2002, 2003, 2011 or 2107

Incompatible: CSTATS 3005

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

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: 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 as in APP MTH 2009 or 2004, Fluid Mechanics such as APP MTH 3002

Assessment: Written & 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: 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 2009

30 hours lectures, tutorials

Available for Non-Award Study

Prerequisite: Pass in MATHS 1012 or MATHS 2004

Assessment: Written & 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 4044
Game Theory

2 units - not offered in 2009

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 2009

Available for Non-Award Study

Prerequisite: MATHS 1012 or MATHS 2004

Assessment: Written assignments 10%, final exam 90%

Syllabus details to be advised.

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.

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, APP MTH 2010, APP MTH 2009, MATHS 2201

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

APP MTH 4011A/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 Maths & Statistics

24 units - full year

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 and 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 4004A/B
Honours Comp Science & Pure Mathematics

24 units - full year

Prerequisite: At least 10 units Level III Pure Maths courses, at least one of PURE MTH 3007 & PURE MTH 3012, at least one of PURE MTH 3002 & PURE MTH 3009, or 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: (At least 10 units of Level III Pure Maths at Credit average or better, at least one of PURE MTH 3007 or PURE MTH 3012, 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 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.

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 with a different background of third-year courses may be accepted at the discretion of the Head of Statistics.

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

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 a different prerequisite background at Level II & III may be accepted at the discretion of the 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 Schools. 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.

Media

LEVEL I

MDIA 1002
Introduction to Media: Digital Revolutions

3 units - semester 1

3 contact hours per week

Restriction: B Media students only

Assessment: Diagnostic exercises 10%, research group presentation 25%, e-portfolio 25%, final assignment 30%, participation 10%

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. Forms of media interactivity and 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.

MDIA 1004
Broadcast: Television & Radio

3 units - semester 2

3 contact hours per week

Restriction: B Media students only

Assessment: First assignment 10%, research assignment 30%, essay assignment including creative assessment or policy assessment option 50%, class participation and attendance 10%

This course examines the history and contemporary forms of broadcast television and radio, and develops an understanding of the impact of digitization, which students gained in the introductory media course, Digital Revolutions. It compares public, commercial, and community models of broadcast media organisations by examining 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. 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 2301
Media Policy and Media Law

3 units - summer semester or semester 1

3 contact hours per week

Available for Non-Award Study

Prerequisite: 12 units Level I Humanities/Social Sciences including MDIA 1002 and at least one other compulsory Level I Media course, or with permission of Head of Discipline

Incompatible: MDIA 2202

Assessment: Tutorial presentation 25%, short essay 20%, attendance, participation 15%, 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 2302
Media Research Methods

3 units - winter semester or semester 2

3 contact hours per week

Restriction: B Media students only

Available for Non-Award Study

Prerequisite: 12 units Level I Humanities/Social Sciences including MDIA 1002 and at least one other compulsory Level I Media course

Incompatible: MDIA 2204

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 2303
Global Media: Policies and Practices

3 units - semester 1 or winter semester

3 contact hours per week

Available for Non-Award Study

Prerequisite: 12 Units Level I Humanities/Social Sciences including MDIA 1002 and one other compulsory Level I Media course, or with permission of Head of Discipline

Incompatible: MDIA 2207

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 2306
Media Theory

3 units - semester 2

3 contact hours per week

Restriction: B Media students only

Prerequisite: 12 units Level Humanities/Social Sciences including two Media core courses

Incompatible: MDIA 3303

Assessment: Participation and planning 10%, seminar exercises 20%, minor essay 20%, final essay 50%

This course examines the different traditions within media theory. It maps the major theoretical traditions of the field including postmodernism, post-colonialism, political economy and communication theories. It also investigates the social and cultural processes implicated in the production and consumption of media forms. Issues range from media as creative and cultural industry, the political economy of the media, techno-transformation/ post-modernity, consumers, audiences and the public, to media products as agents of globalisation. Students will consider a number of key concepts, and examine the writings of several key thinkers working in and around this field. They will also be encouraged to compare and contrast different approaches, so that they are able

to recognise the different theoretical concerns and emphases in play. Discussion will range across a selection of themes and issues, from the more traditional (e.g. debates about ideology and signification) to the more contemporary (e.g. debates about globalisation and the arrival of so-called new media).

MDIA 2322
Radio Production A

3 units - semester 2

3 contact hours per week

Restriction: B Media students only

Prerequisite: 12 units Level I Humanities/Social Sciences including MDIA 1002 and at least one other compulsory Level I Media course

Incompatible: MDIA 2203

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. Students are expected to enrol in the two-course sequence.

MDIA 2325
Video Production A

3 units - semester 2

3 contact hours per week

Restriction: B Media students only

Quota applies

Prerequisite: 12 units Level I Humanities/Social Sciences including MDIA 1002, ENGL 1105, SOCI 1002

Incompatible: MDIA 2206

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 if 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. Students are expected to enrol in the two-course sequence.

MDIA 2327
Multimedia Production A

3 units - semester 2

3 contact hours per week

Restriction: B Media students only

Quota applies

Prerequisite: 12 Units Level I Humanities/Social Sciences including MDIA 1002 and at least one other Media Level 1 core course

Incompatible: MDIA 2205

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. Students are expected to enrol in the two-course sequence.

LEVEL III

MDIA 3310
Professional Practice

3 units - semester 2

3 contact hours per week

Restriction: B Media students only

Prerequisite: 12 units Level I Humanities/Social Sciences including two Media core courses

Incompatible: MDIA 3301

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 3311
Media Industry Placement

6 units - summer semester or semester 1 or 2

Students enrolling for semester 1 or 2 will be required to attend some on-campus classes - details confirmed during information session in Week 1

Restriction: B Media students only

Prerequisite: 12 units Level I Humanities/Social Sciences including two Media core courses

Incompatible: MDIA 3302

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 the Media Industry Placement convenor and Head of School. 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 3312
Media Democracies and E-Participation

3 units - semester 1

3 contact hours per week

Restriction: B Media students only

Prerequisite: 12 units Level I Humanities/Social Sciences

Assessment: Short assignment on selected histories of global journalism 20%, seminar presentation and essay 30%, portfolio: investigative project to be published to a distribution platform 50%

This course develops understandings of mainstream media's crucial constitutive and dynamic role in 'information society democracies' like Australia, the UK, USA, NZ and Singapore. It also teaches the skills of citizen journalism and other forms of media participation. The specific characteristics of reported public life and events - the 'daily miracle' of news - provide the material for grounded analyses of the global social and political trends of increased information flows, and higher public expectations of the transparency and accountability of media and governmental power. Illustrative cases for analysis include, for example, mainstream treatments of global indigenous affairs, the developing web, global terrorism, political campaigns and party political media organisations, sustainable energy and food sources, environmental politics, celebrity profiling, the changing concepts of privacy and civil liberties, and the conduct of war. Factors such as advertising revenue, media editorial policy, and differing levels of government control of media will be considered. The course moves from theoretical concepts of mass 'public spheres' in which news has a nation-building place, to the changing realities of fragmented 'publics' and the contradictions and complexities - of trends (operating globally, locally and virtually) towards outsourcing, remediating and redistributing media content. The impact of digital uptake amongst 'information society democracies' is assessed in relation to the unfolding of national and international media 'events'.

MDIA 3313
Screens: Special Topic: Asian Screen Media

3 units - semester 1

3 contact hours per week

Restriction: B Media students only

Prerequisite: 12 units Level I Humanities/Social Sciences

Assessment: Tutorial participation and planning 10%, 3,500 word major written work 60%, 1,500 word small project experimenting with the technology 30%

Screen-based technologies increasingly dictate what we 'know' about the world around us. From the humble ATM, mobile phone, CCTV, video games, MTV, to in-flight navigation devices, convergent televisual forms, the screen both informs and reflects our everyday interaction with those around us, how we work, and the environments we live in.

This theoretically informed course drawn from the research expertise of a particular member of staff addresses specific areas of interest in the genre of screen-based technologies. Typically this will include the genres and uses of information visualisation, games, anime, mobile technologies, web media, and film. Theoretical, practical, and ethical issues will be covered in this comprehensive but specific special topic course. In 2009, Asian Screen Media is the focus of the course.

MDIA 3322
Radio Production B

3 units - semester 1

4 contact hours per week

Restriction: B Media students only

Prerequisite: 12 units Level I Humanities/Social Sciences and MDIA 2203/2322 Radio Production A

Incompatible: MDIA 3304

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 builds 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 3325
Video Production B

3 units - semester 1

3 contact hours per week

Restriction: B Media students only

Prerequisite: 12 units Level I Humanities/Social Sciences and MDIA 2206/2325 Video Production A

Incompatible: MDIA 3206

Assessment: 4 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 3327
Multimedia Production B

3 units - semester 1

3 contact hours per week

Restriction: B Media students only

Prerequisite: 12 units Level I Humanities/Social Sciences and MDIA 2205/2327 Multimedia Production A

Incompatible: MDIA 3205

Assessment: 4 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.

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 streams 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 Exam

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

Aattachments, 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

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 5009AHO/BHO
Acute and Chronic Care

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.

MEDIC ST 5014AHO/BHO
Anaethesia, Pain Medicine & Intensive Care V

2 units - full year

Attachments, common program & research

Restriction: MBBS students only

Prerequisite: Year 4 MBBS Exam

Assessment Based on attendance, participation in discussions & knowledge

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.

LEVEL VI

MEDIC ST 6000
Final (Sixth Year) MBBS Assessment

0 units - semester 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 (6th Year) Assessment:

MEDIC ST 6001HO Clinical Elective and Specials Week VI

MEDIC ST 6002HO Medicine Internship and Common Program VI

MEDIC ST 6003HO Surgery Internship VI

MEDIC ST 6004HO Emergency Medicine Internship VI

MEDIC ST 6005HO Primary Care SCAP VI

MEDIC ST 6006HO Psychological Health SCAP VI

MEDIC ST 6007HO Medicine SCAP VI

MEDIC ST 6008HO Surgery SCAP VI

Each of the above courses is valued at 1.5 units and available only to MBBS students. Assessment for each course will be advised at the beginning of the year.

MEDIC ST 6009AHO/BHO
Medicine Internship & Common Program VI

4 units - full year

Restriction: MBBS students only

Prerequisite: Year 5 MBBS exam

Assessment: To be advised at the start of the year

Details to be advised.

MEDIC ST 6010AHO/BHO
Surgery Internship VI & Specials Week VI

4 units - full year

Restriction: MBBS students only

Prerequisite: Year 5 MBBS exam

Assessment: To be advised at the start of the year

Details to be advised.

MEDIC ST 6011AHO/BHO
Emergency Department Internship VI

4 units - full year

Restriction: MBBS students only

Prerequisite: Year 5 MBBS exam

Assessment: To be advised at the start of the year

Details to be advised.

MEDIC ST 6012AHO/BHO
Medicine/Surgery SCAP VI

4 units - full year

Restriction: MBBS students only

Prerequisite: Year 5 MBBS exam

Assessment: To be advised at the start of the year

Details to be advised.

MEDIC ST 6013AHO/BHO
Primary Care SCAP VI

4 units - full year

Restriction: MBBS students only

Prerequisite: Year 5 MBBS exam

Assessment: To be advised at the start of the year

Details to be advised.

MEDIC ST 6014AHO/BHO
Psychiatry SCAP VI

4 units - full year

Restriction: MBBS students only

Prerequisite: Year 5 MBBS exam

Assessment: To be advised at the start of the year

HONOURS

ANAES&IC 4000AHO/BHO
Honours Anaesthesia and Intensive 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.

MEDICINE 4000AHO/BHO
Honours Medicine

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.

OPHTHAL 4000A/B
Honours Ophthalmology

24 units - full year

Restriction: B.Med.Sc .& B.Hlt.hSc. 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

ORT&TRAU 4000AHO/BHO
Honours Orthopaedics and Trauma

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.

PAEDIAT 4000AHO/BHO
Honours Paediatrics

24 units - full year

Restriction: BMedSc students. appropriately qualified BHlthSc 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 2500
Microbiology II

3 units - semester 1

3 x 1 hour lectures, 1 hour tutorial, 3 hour practical per week

Available for Non-Award Study

Prerequisite: BIOLOGY 1101 and BIOLOGY 1201 or BIOLOGY 1202

Incompatible: MICRO 2502 and MICRO 2504

Assessment: Exam on lecture material, 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 2501
Immunology & Virology II

3 units - semester 2

3 x 1 hour lectures, 1 hour tutorial, 3 hour practical per week

Available for Non-Award Study

Prerequisite: BIOLOGY 1101 and BIOLOGY 1201 or BIOLOGY 1202

Assumed Knowledge: MICRO 2500, MICRO 2502 and MICRO 2504

Incompatible: MICRO 2503 and MICRO 2505

Assessment: Exam on lecture material, tutorial & practical assessment

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 2502
Microbiology II (Biomedical Science)

3 units - semester 1

3 x 1 hour lectures, 1 hour tutorial, 3 hour practical per week

Restriction: BSc (Biomedical Science)

Prerequisite: BIOLOGY 1101 and BIOLOGY 1201

Assumed Knowledge: CHEM 1100 or CHEM 1101 and CHEM 1200 or CHEM 1201

Incompatible: MICRO 2500 and MICRO 2504

Assessment: Exam on lecture material, tutorial & practical assessment

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 2503
Immunology & Virology II (Biomedical Science)

3 units - semester 2

3 x 1 hour lectures, 1 hour tutorial, 3 hour practical per week

Restriction: BSc (Biomedical Science)

Prerequisite: BIOLOGY 1101 and BIOLOGY 1201

Assumed Knowledge: MICRO 2502

Incompatible: MICRO 2501 and MICRO 2505

Assessment: Exam on lecture material, tutorial & practical assessment

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 2504
Microbiology II (Biotechnology)

3 units - semester 1

3 x 1 hour lectures, 1 hour tutorial, 3 hour practical per week

Restriction: BSc (Biotechnology)

Prerequisite: BIOLOGY 1101 and BIOLOGY 1201 or BIOLOGY 1202

Assumed Knowledge: CHEM 1100 or CHEM 1101 and CHEM 1200 or CHEM 1201

Incompatible: MICRO 2500 and MICRO 2502

Assessment: Exam on lecture material, 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 2505
Immunology & Virology II (Biotechnology)

3 units - semester 2

3 x 1 hour lectures, 1 hour tutorial, 3 hour practical per week

Restriction: BSc (Biotechnology)

Prerequisite: BIOLOGY 1101 and BIOLOGY 1201 or BIOLOGY 1202

Assumed Knowledge: MICRO 2504

Incompatible: MICRO 2501 and 2503

Assessment: Exam on lecture material, tutorial & practical assessment

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 IIIA

6 units - semester 1

3 x 1 hour lectures per week, 1 hour tutorial & 3 x 5 hours practical per fortnight

Available for Non-Award Study

Prerequisite: MICRO 2500 and MICRO 2501 or equiv

Incompatible: MICRO 3102

Assessment: Exam on lecture material, tutorial & practical assessment

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 IIIB

6 units - semester 2

3 x 1 hour lectures per weekl, 3 x 5 hours practical per fortnight, 3 x 2 hour tutorial per semester

Available for Non-Award Study

Prerequisite: MICRO 2500 and MICRO 2501 or equiv

Incompatible: MICRO 3202 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 x 1 hour lectures, hour tutorial, 6 hours practical per week

Available for Non-Award Study

Prerequisite: PATHOL 2000 or Year 1 MBBS

Incompatible: MICRO 2000A/B, MICRO 2001A/B and MICRO 2003A/B or MICRO 2002

Assessment: Written exams, practical exercises

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 IIIA (Biomedical Science)

6 units - semester 1

3 x 1 hour lectures per week, 1 hour tutorial & 3 x 5 hours practical per fortnight

Restriction: BSc (Biomedical Science)

Available for Non-Award Study

Prerequisite: MICRO 2503 and MICRO 2504 or equiv

Incompatible: MICRO 3000

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 IIIB (Biomedical Science)

6 units - semester 2

3 x 1 hour lectures per weekl, 3 x 5 hours practical per fortnight, 3 x 2 hour tutorial per semester

Restriction: BSc (Biomedical Science)

Available for Non-Award Study

Prerequisite: MICRO 2502 and MICRO 2503 or equiv

Incompatible: MICRO 3001

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

Intending Honours candidates should consult the Discipline Leader of Microbiology and Immunology during the final year of the B.Sc.

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.

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

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 1001A/B
A Kind of Blue 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: 8784 Large Vocal Ensemble I

Assessment: Ensemble achievement in rehearsals/performances and individual contribution - 100% attendance required except in cases of illness or approved leave

Rehearsal and performance of accompanied and unaccompanied choral works in a variety of jazz styles: on-going development of choral, musical and ensemble skills to a high level.

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

Prerequisite: Audition

Incompatible: ENS 1001A, 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

Prerequisite: Audition

Incompatible: ENS 1005A, ENS 1006A, 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 - other students may audition for limited number of places

Prerequisite: Audition

Assessment:Individual graded assessments of relevant repertoire; 100% attendance and participation 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

Prerequisite: Audition

Incompatible: 9300

Assessment: Individual graded assessments of relevant repertoire; 100% attendance and participation required except in cases of illness or approved leave - further information available 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

Prerequisite: Audition

Incompatible: ENS 1012B Jazz Guitar Band Two I part 2; 5889 Large Jazz Ensemble I

Assessment: Ensemble achievement in rehearsals/performances and individual contribution -100% attendance required except in cases of illness or approved leave

Develops musicianship in the large ensemble context by focussing on the skills of reading, listening, stylistic interpretation, intonation, blend. Rehearsals and performances 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

Prerequisite: Audition

Incompatible: 3665

Assessment: Ensemble achievement in rehearsals/performances and individual contribution - 100% attendance and participation required except in cases of illness or approved leave

Rehearsal and performance of repertoire for percussion ensemble.

ENS 1023A/B
Chamber Orchestra

3 units - full year

2.5 hours classes, supervised rehearsals per week

Restriction: priority to music degree students - other students may audition for limited number of places

Prerequisite: Audition

Incompatible: 8341

Assessment: Individual graded assessments of relevant repertoire. 100% attendance and participation required except in cases of illness or approved leave - further assessment 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 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: enrolment subject to audition & number of places. Priority given to music degree students but course is also available to non-music students

Prerequisite: Audition

Incompatible: 8784

Assessment: individual graded assessments of relevant repertoire; 100% attendance and participation 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: enrolment subject to audition & number of places. Priority given to music degree students but course is also available to non-music students

Prerequisite: Audition

Assessment: individual graded assessmenst of relevant repertoire; 100% attendance and participation required except in cases of illness or approved leave - further assessment 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: enrolment subject to audition & number of places. Priority given to music degree students but also available to non-music students

Prerequisite: Audition

Assessment: individual graded assessments of relevant repertoire; 100% attendance and participation 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 and participation 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.

Note: Students wishing to take this course are encouraged to form a group prior to enrolment. Confirmation of enrolment will be dependanct upon the availability of a place within a viable 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 1030 Chamber Music IA or audition

Incompatible: 3269 Chamber Music I

Assessment: satisfactory attendance and participation 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.

Note: Students wishing to take this course are encouraged to form a group prior to enrolment. Confirmation of enrolment will be dependanct upon the availability of a place within a viable ensemble.

GENMUS 1001
From Elvis to U2 I

3 units - semester 1

1 x 2 hour & 1 x 1 hour lectures per week

Restriction: Ability to play or 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 & 1 x 1 hour lectures per week

Available for Non-Award Study

Prerequisite: 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

3 units - semester 2

1 x 2 hour, 1 x 1 hour lectures per week

Available for Non-Award Study

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 - other students may audition for limited number of places

Available for Non-Award Study

Prerequisite: GENMUS 1026A

Assessment: Papers/presentations 35%, exams 65%

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 it's associated fields. Areas explored include the physics and psychophysics of sound; acoustics; electronic synthesis and processing; and audio and MIDI theory.

JAZZ 1000A/B
Jazz Performance I

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

Prerequisite: Audition

Incompatible: 1662, ENS 1019A/B

Assessment: semester 1 - 20 min technique/perfomance 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 (including 1 hour Afro-American rhythms)

Restriction: Music degree students only

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.

MUSCORE 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

Incompatible: 1268, 5549I, 7705, 7320, 2107

Assessment: Choir - demonstration of individual sight singing ability & involvement in 1 performance per semester 30%; aural - as required for stream/level 30%; workshop (50% assignments & assessment, 50% exam) 40%. Note: must pass theory component to pass overall

Aural: Refer to MUSCORE 1007. Choir: Development of music aural skills through choral singing, emphasis on sight-reading, aural development and vocal skills. Workshop: study of jazz theory as applied through the keyboard and taught in the keyboard laboratory including guidelines for critical listening, study and practical application of scales (tetrachords, modes of the major and minor scales, blues scale), major and minor harmony concepts including diatonic chord function and chord voicing, chord and scale relationship, smooth voice leading, diatonic and tritone substitution, chord extensions, reading and playing chord progressions. Introduction to acoustics and the perception of sound.

MUSCORE 1006
Music in Context I: Jazz

3 units - semester 2

1 hour aural, 1 hour choir, 2 hour workshop per week

Restriction: Music degree students only

Prerequisite: MUSCORE 1005

Incompatible: 5549, 7705, 7320, 2107

Assessment: Choir - demonstration of individual sight singing ability & involvement in 1 performance per semester 30%; aural - as required for stream/level 30%; workshop (50% assignments & assessment, 50% exam) 40%. Note: must pass theory component to pass overall

Aural: Refer to MUSCORE 1007. 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.

MUSCORE 1007
Introduction to Theory & Analysis of Music I

3 units - semester 1

1 hour lecture, 1 hour tutorial, 1 hour aural per week

Incompatible: MUSCORE 1001, MUSCORE 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

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 notatingmelodic, 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

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

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.

MUSPED 1001
Pedagogy Studies 1

3 units - semester 1

1 hour lecture, 2 hour tutorial per week

Restriction: Music degree students only

Assumed Knowledge: Well established instrumental/vocal performance skills and theoretical knowledge

Assessment: Written exam 50%, folio of materials and teaching resources 50%

Participants are introduced to the theoretical principles of music education and the processes whereby such principles can form the foundations of instrumental/vocal learning that is meaningful to beginning pupils of various ages and in various delivery modes. Tutorials allow for discussions concerning teaching and learning particular insturmental and vocal specialties in a variety of styles and genres and participants are required to research and catalogue available music materials that are appropriate for the acquisition of skills, knowledge and understanding specific to particular age groups and modes of learning.

MUSST 1000A/B
Studies In Music I

6 units - full year

1 x 2 hour & 1 x 1 hour lectures, 1 hour tutorial per week

Incompatible: GENMUS 1001 & 1003

Assessment: Exam & essay as per GENMUS 1001 & 1003 75%, brief tutorial research and/or presentation 25%

Studies in Music Pt 1 & 2 combines lectures and assessments from the courses GENMUS 1001 From Elvis to U2 and GENMUS 1003 Musics of the World, with an additional weekly tutorial. The tutorial and related assessments are designed to extend understanding of music in its social and performative contexts, and to provide increased focus on music research and communicaton skills.

MUSST 1010A/B
Studies in Composition I

3 units - full year

1.5 hour technical studies seminar, 1.5 hour practical workshop per week

Prerequisite: basic score reading skills

Incompatible: COMP 1001/1002

Assessment: Semester : 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

Assessment: 2 written assignments (30% each); essay 40%

An in-depth study of the Conservatorium's current opera, music theatre project and/or major choral works.

MUSTECH 1003A/B
Music Technology

6 units - full year

2 x 1 hour seminars & 2 hour workshop for 12 weeks

Restriction: Music degree students only

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
Functional 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

For pianists: 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).

For guitarists: Development of practical skills in the areas of sight reading, harmonic analysis, rapid learning and ensemble playing.

PERF 1500A/B
Classical Performance I

9 units - full year

30 hours tuition; Classical Performance Forum 1.5 hours per week/24 wks; technique/repertoire class, organised according to instrumental/vocal specialisation, 360 hours (usually 1.5 hours per week/24 wks)

Restriction: Music degree students only

Prerequisite: Audition

Assessment: Semester 1: 20 minute 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, 360 hours (usually 1.5 hours per week/24 wks)

Restriction: Music degree students only

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)

Practical study (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

Prerequisite: COMP 2500A

Incompatible: COMP 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

Prerequisite: Audition

Incompatible: ENS 2001B A Kind of Blue II part 2; 8784 Large Vocal Ensemble II

Assessment: Ensemble achievement in rehearsals/performances and individual contribution - 100% attendance required except in cases of illness or approved leave

Rehearsal and performance of accompanied and unaccompanied choral works in a variety of 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

Prerequisite: Audition

Incompatible: ENS 2005B, ENS 2006B, 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 Orchestra per week, additional rehearsals for concerts may be required

Restriction: Priority given to music degree students - other students may audition for limited number of places

Prerequisite: Audition

Assessment: individual graded assessments of relevant repertoire; 100% attendance and participation 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

Prerequisite: Audition

Incompatible: 6358

Assessment: Individual graded assessments of relevant repertoire; 100% attendance and participation 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

Prerequisite: Audition

Incompatible: ENS 2012B, 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

Prerequisite: Audition

Incompatible: 4717

Assessment: Ensemble achievement in rehearsals/performances and individual contribution - 100% attendance & participation 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 - other students may audition for limited number of places

Prerequisite: Audition

Incompatible: 9199

Assessment: Individual graded assessments of relevant repertoire. 100% attendance and participation 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 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: Subject to audition & number of places - priority given to music degree students but places available to other students

Prerequisite: Audition

Incompatible: 8463 Large Vocal Ensemble II

Assessment: Individual graded assessments of relevant repertoire; 100% attendance and participation 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

3 units - full year

2.5 hours rehearsal per week; plus performances as scheduled; additional rehearsals for concerts may be required

Restriction: Subject to audition & number of places - priority given to music degree students but places available to other students

Prerequisite: Audition

Assessment: Individual graded assessments of relevant repertoire; 100% attendance and participation 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: Subject to audition & number of places - priority given to music degree students but places available to other students

Prerequisite: Audition

Assessment: Individual graded assessments of relevant repertoire; 100% attendance and participation 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 Chamber

Assessment: Satisfactory attendance and participation 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.

* Students wishing to take this course are encouraged to form a group prior to enrolment. Confirmation of enrolment dependant upon the availability of a place within a viable 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 and participation 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.

* Students wishing to take this course are encouraged to form a group prior to enrolment. Confirmation of enrolment dependant upon the availability of a place within a viable ensemble.

GENMUS 2005
Music, Media & Contemporary Society II

3 units - semester 2

3 hour lecture per week

Available for Non-Award Study

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 music performance and consumption practices 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 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 - other students may audition for limited number of places

Prerequisite: GENMUS 2026A

Assessment: Papers/project 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. Areas explored may include computer music, electroacoustics, music concrete and sound art.

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

Prerequisite: JAZZ 2000A

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 (including 1 hour Afro-American rhythms)

Restriction: Music degree students only

Prerequisite: JAZZ 2006A

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

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: Music degree students only

Prerequisite: JAZZ 2600A

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 hour aural, 1 hour theory lecture, 1 hour theory tutorial, 1 hour history lecture, 1 hour history tutorial per week

Restriction: Music degree students only

Prerequisite: MUSCORE 1005, MUSCORE 1006

Incompatible: 1222I, 1930, 2008, JAZZ 2003A/B

Assessment: Aural - as required for stream 20%, theory (50% weekly assignments & tests, 50% exam) 40%, history (15% study skills assignment, 15% annotated bibliographic survey, 35% essay, 35% exam) 40%. Both history & theory must be passed to pass course overall

Aural: Refer to MUSCORE 2005. Theory: development of an advanced knowledge of jazz harmony and melody. Considers the harmony of jazz standards (topics include minor key harmony, modal interchange, secondary and substitute dominants, tonicisation and modulation), theoretical aspects of the bebop style (rhythmic aspects, synchronised lines, harmonic super-imposition), symmetrical scales and diminished harmony, and the function of diminished chords in jazz harmony. History: Facilitate understanding of social, economic and political factors involved in the development of Afro-American music from its West African roots to the present day; develop the ability to analyse the specific stylistic features of each historical period of jazz, including transitional and related forms, and to identify major trends in the development of the music; develop ability to assess and place into historical perspective the innovations and developments of the major contributors from early jazz to contemporary styles. Topics include: analysis of various styles of jazz ranging from New Orleans to contemporary; musical concepts in jazz styles; roles of instruments; study of set works.

MUSCORE 2004
Music in Context IIB: Jazz

3 units - semester 2

1 hour aural, 1 hour theory lecture, 1 hour theory tutorial, 1 hour history lecture, 1 hour history tutorial per week

Restriction: Music degree students only

Prerequisite: MUSCORE 2003

Incompatible: 1222, 1930, 2008, JAZZ 2003A/B

Assessment: Aural - as required for stream 20%, theory (50% weekly assignments & tests, 50% exam) 40%, history (10% tutorial assignments, 30% group oral presentation, 35% essay, 25% exam) 40%. Both history & theory must be passed to pass course overall

Aural: Refer to MUSCORE 2005. 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.

MUSCORE 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

Restriction: Music degree students only

Prerequisite: MUSCORE 1007, MUSCORE 1008

Incompatible: MUSCORE 1004

Assessment: Theory 15% - assignments 25%, 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.

MUSCORE 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

Restriction: Music degree students only

Prerequisite: MUSCORE 2005

Incompatible: MUSCORE 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 Education degree students only

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 Education degree students only

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 (with Mus Educ Level III), 1 hour lecture per week

Restriction: Music Education degree students only

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.

MUSPED 2001
Pedagogy Studies II

3 units - semester 2

1 hour lecture, 2 hour tutorial per week

Restriction: Music degree students only

Prerequisite: MUSPED 1001

Assumed Knowledge: Well established instrumental/vocal performance skillls and theoretical knowledge

Incompatible: MUSST 2003

Assessment: Written examination 50%, folio of materials and teaching resources 50%

The educational significance of skills and understanding in general musicianship is explored in the context of pupil's overarching experience as learners. As part of this process, participants are also introduced to the principal established generic music teaching and learning methodologies including the Dalcroze, Orff, Suzike and Yamaha approaches. Tutorials allow for discussion concerning teaching and learning particular instrumental and vocal specialities in a variety of styles and genres and participants are required to research and catogue available music materials that are appropriate for the acquisition of skills, knowledge and understanding specific to particular age groups and modes of learning at elementary to advancing levels of skill attainment.

MUSST 2001
Approaches to Music IIA

3 units - semester 1

2 hour lecture/discussion, 1 hour tutorial per week

Available for Non-Award Study

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

Available for Non-Award Study

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: usually Music degree students only

Available for Non-Award Study

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 if its recognised methodologies. Tutorials in string, wind, keyboard and other instruments concentrate on instrumental specific approaches at elementary levels with a pupil-centred focus.

MUSST 2006
Orchestration II

3 units - semester 2

2 hour workshop per week

Restriction: Music degree students only

Prerequisite: MUSCORE 1004

Incompatible: MUSCORE 1003, 7736, 4851

Assessment: Written test in week 5 focussing on practical matters of instrumentation 20%; piano reduction from a full score 30%; orchestration from a full score 50%

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

Assessment: 2 written assignments (30% each); essay 40%

An in-depth study 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, 2 hour workshop per week for 12 weeks

Restriction: Music degree students only

Prerequisite: MUSTECH 2003A

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 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 and 1 hour movement class per week

Restriction: Music degree students only

Prerequisite: PERF 2003A

Incompatible: 7255

Assessment: 1000 word essay on an aspect of music theatre (to be negotiated) 30%, attendance & participation 20%

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

Incompatible: 3135

Assessment: Language class assignments 40%, attendance and participation in repertoire class 10%

Repertoire class; language (Italian).

PERF 2023
Conducting IIA

1.5 units - semester 1

2 hour workshop per week

Restriction: Music degree students only

Incompatible: GENMUS 2023

Assessment: 2 practical assessments of elementary conducting techniques and rehearsal observation and review

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 per week

Restriction: Music degree students only

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, 360 hours (usually 1.5 hours per wk /24 wks)

Restriction: Music degree students only

Prerequisite: PERF 2500A

Assessment: Semester 1:25 minute technique assessment or equiv 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, 360 hours (usually 1.5 hrs per wk/24 wks)

Restriction: Music degree students only

Prerequisite: PERF 2600A

Assessment: Semester I: 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)

Practical study (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

0.5 hour individual tuition, 1.5 hour seminar in technical studies; 1.5 hour practical workshop per week

Restriction: Music degree students only

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

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 - other students may audition for limited number of places

Prerequisite: Audition

Incompatible: 8163

Assessment: Individual graded assessments of relevant repertoire; 100% attendance and participation 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 assessments of relevant repertoire; 100% attendance and participation 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

Prerequisite: Audition

Incompatible: ENS 3012B, 8964

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 3017A/B
Percussion Ensemble III

3 units - full year

2 hours supervised rehearsals per week

Restriction: Music degree students only

Prerequisite: Audition

Incompatible: 8677

Assessment: Ensemble achievement in rehearsals/performances, individual contribution - 100% attendance & participation 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 - other students may audition for limited number of places

Prerequisite: Audition

Incompatible: 7399

Assessment: Individual graded assessments of relevant repertoire. 100% attendance and participation 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: Subject to audition & number of places - priority given to music degree students but places available to other students

Prerequisite: Audition

Incompatible: 5106

Assessment: Individual graded assessments of relevant repertoire; 100% attendance and participation 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: Subject to audition & number of places - priority given to music degree students but places available to other students

Prerequisite: Audition

Assessment: Individual graded assessments of relevant repertoire; 100% attendance and participation 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: Subject to audition & number of places - priority given to music degree students but places available to other students

Prerequisite: Audition

Assessment: Individual graded assessments of relevant repertoire; 100% attendance and participation 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 and participation 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.

* Students wishing to take this course are encouraged to form a group prior to enrolment. Confirmation of enrolment dependanct upon the availability of a place within a viable 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 and participation 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.

* Students wishing to take this course are encouraged to form a group prior to enrolment. Confirmation of enrolment dependanct upon the availability of a place within a viable ensemble.

GENMUS 3011
Village Voices: Greenwich Village in the 1960s III

3 units - semester 1

3 hour lecture per week

Available for Non-Award Study

Assessment: 2,500 word essay 60%, 1000 word critical commentary 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, Judson Dance Theatre; Poetry in Action: political activism in the work of Bob Dylan, Allen Ginsberg and The New York School; 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, Underground Cinema; Pop Art and Art Rock: Andy Warhol, The Velvet Undergound, Lou Reed, The Fugs; Jazz at the Village Vanguard: Albert Ayler, Ornette Coleman, Cecil Taylor and Free Jazz.

GENMUS 3013
Music & Ideology II/III

3 units - biennial course

3 hour lecture per week

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 3026A/B
Perspectives in Music Technology III

3 units - full year

2 x 1 hour seminar per week for 12 weeks

Restriction: priority to music degree students - other students may audition for limited number of places

Prerequisite: GENMUS 3026A

Assessment: Papers/project 50%, exams 50%

Seminar 1: Theoretical and practical research into new technologies and their application to music. Areas explored may include software control systems, musical instruments, recording and production, electronics, synthesis, psychoacoustics and algorithmic compositon. Seminar 2: Specific scientific analysis and understanding of innovative sound and music technologies. Areas explored may include 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

Prerequisite: JAZZ 3000A

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

Prerequisite: JAZZ 3005A

Incompatible: 8075

Assessment: Ongoing assignments 40%; end of semester exams - written 20%, practical 40%

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

Prerequisite: JAZZ 3600A

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.

MUSCORE 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

Prerequisite: MUSCORE 2003, MUSCORE 2004, JAZZ 2007B

Incompatible: 4838

Assessment: Theory (25% weekly assignments & tests, 75% exam) 50%; jazz arranging (100% small assignments) 50%. Both theory and history components must be passed to pass the course overall

Jazz Theory: extensive study of chords, scales and modes and their relationships; research of standard harmonic progression and standard tunes; advanced chord substitution and polytonality. Jazz arranging and composition: further development of jazz arranging techniques and skills for medium to large ensembles (eg Big Band).

MUSCORE 3003
Music in Context IIIB: Jazz

3 units - semester 2

1 hour theory lecture, 2 hour tutorial, 1 hour jazz arranging lecture per week

Restriction: Music degree students only

Prerequisite: MUSCORE 3002

Incompatible: 4838

Assessment:Theory (25% weekly assignments & tests, 75% exam) 50%; jazz arranging (50% small assignments, 50% major assignment) 50%. Both theory and history components must be passed to pass the course overall

Jazz Theory: Advanced level study of the tonal organisation and rhythmic structure of contemporary jazz. Topics include: Investigation and study/application of the 'Lydian Chromatic Concept' by George Russell; study of other techniques/systems such as 12 tone techniques, Eastern scales/techniques, and systems used by 20th century composers - Bartok, etc. Jazz arranging and composition: further development of jazz arranging techniques and skills for medium to large ensembles (eg Big Band) - submission of big band arrangement and compositions

MUSCORE 3005
Western Music in Theory & Practice III: 1950 onward

3 units - semester 1

2 x 1 hour lectures, 1 hour tutorial , 1.5 hour workshop per week

Restriction: Music degree students only

Prerequisite: MUSCORE 2005/2006

Incompatible: MUSCORE 3001, MUSCORE 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

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 Education degree students only

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 per week (may be taught in condensed format to accommodate Music Education Practicum III)

Restriction: Music Education degree students only

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 Education Level II), 1 lecture per week

Restriction: Music Education degree students only

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 Education degree students only

Prerequisite: MUSED 3001

Incompatible: 5364

Students will undertake one placement of supervised teaching practice (equivalent to 30 days/6 weeks) in a school. Students who successfully complete the course are given a non-graded pass.

MUSED 3005
Primary Music Curriculum

3 units - biennial course - may not be offered every year

1 x 3 hour workshop per week

Restriction: Music Education degree students only

Assessment: Curriculum project 50%; observation journal 20%; teaching resources 30%

Primary Music Curriculum is offered as a 3-unit elective in the Bachelor of Music Education program. This elective seeks to broaden the scope of the program to incorporate primary school music specialist training in addition to the existing secondary school focus. The elective is also available as an elective for students in the Bachelor of Music and Bachelor of Music Studies programs. The purpose of the course is to enable students to develop their knowledge of music education principles and practices for primary school level, through a mixture of focussed lecture/workshops and field placement. Students will be required to plan, prepare and present a folio of primary music curriculum materials based on their experiences at Ischools and during the workshops.

MUSPED 3001A/B
Pedagogy Studies IIIB

3 units - full year

1 hour lecture per week, 12 hours workshop participation and 12 hours total teaching practice per semester

Restriction: Music degree students only

Prerequisite: MUSPED 3001A or equiv, National Police Clearance

Assumed Knowledge: Well established instrumental/vocal performance skillls and theoretical knowledge

Incompatible: MUSST 3004

Assessment: Teaching practice 50%, workshop ensemble rehearsal or 2nd instrumental teaching folio 25%, written examination (Educational Psychology) 25%

This course is designed to assist participants to undertake, confidently, weekly supervised teaching practice with a variety of pupils in various settings on and off campus. Participants are introduced to the broad principles of Educational Psychology that underpin successful instrumental/vocal learning and teaching. They also extend their skills and knowledge either though performing contemporary popular music on their main or a second instument in regular ensemble workshop rehearsals, or by undertaking pedagogy studies in a second instument.

MUSST 3001
Approaches to Music III

3 units - semester 1

2 hour lecture/discussion, 1 hour workshop per week

Restriction: Music degree students only

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 3004
Instrumental Music Pedagogy III

3 units - semester 2

1 hour workshop, 1 hour tutorial per week

Restriction: Usually Music degree students only

Available for Non-Award Study

Prerequisite: MUSST 2003 or equivalent 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 hour seminar per week

Restriction: Music degree students only

Assessment: Compostional exercise (treatments of metred rythyms) 25%; compositional exercise (treatments of unmetred rythyms) 25%; written analytical project (approved topic) approximately 2000 words 50%

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

Assessment: 2 written assignments 30% each, essay 40%

An in-depth study 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, 1 hour workshop for 12 weeks

Restriction: Music degree students only

Prerequisite: MUSTECH 3003A Music Technology III part 1

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 3003A/B
Stagecraft III

3 units - full year

2 hour workshop, 1 hour movement class per week

Restriction: Music degree students only

Prerequisite: PERF 3003A

Assessment: 1000 word essay on an aspect of music theatre (to be negotiated) 30%, attendance & participation 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

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 per week

Restriction: Music degree students only

Prerequisite: PERF 2024 at Credit level or higher

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 per week

Restriction: Music degree students only

Prerequisite: PERF 3023

Incompatible: GENMUS 2024, 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

9 units - full year

30 hours tuition; Classical Performance Forum 1.5 hours per wk, technique/repertoire class, organised on instrumental/ vocal specialisation, 360 hours (usually 1.5 hours per wk/24 wks)

Restriction: Music degree students only

Prerequisite: PERF 3500A Classical Performance III part 1

Assessment: Semester 1: 30 minute technique assessment or equiv 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, 360 hours (usually 1.5 hours/24 wks)

Restriction: Music degree students only - consult relevant Academic Program Rules

Prerequisite: PERF 3600A

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.

LEVEL IV

MUSED 4002A/B
Music Education Project IV

3 units - full year (may not run every year)

12 x 1 hour workshops

Restriction: Music Education degree students only

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 pf 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.

HONOURS

ETHNO 4003A/B
Honours Ethnomusicology

24 units - full year

Prerequisite: See Program Rule 6.5

Assessment: 5000 word research seminar paper 20%, 30 min. oral presentation 5%, negotiated project- variety of assessments by negotiation with supervisor & Honours Coordinator 25%, 10,000 word thesis 50%

A program of seminars and individual supervision in the theory and practice of ethnomusicology. Students will complete: 1) research seminar (6 units): theory and methods of ethnomusicology including major concepts, research issues, transcription and editing, analysis, case studies. 2) negotiated project (6 units): an activity that complements major study e.g. editing, professional activity (such as affiliation with a professional society), fieldwork, a research project, a recording project, performance project or component from another Music Honours program. 3) major research project (12 units) - topic of choice as approved by Honours Coordinator.

MUSCOMP 4010A/B
Honours Composition

24 units - full year

Restriction: approved honours music students only

Prerequisite: See Program Rule 6.5

Assessment: Analytical project 25%, negotiated project 25%, final portfolio 50% - pass mark must be achieved in all three components to pass the course overall

The work undertaken through individual supervision each semester will focus primarily on the conception and realisation of original creative works. There is no particular sylistic or aestheitic requirement. Candidates are encouraged to develop their own, original creative 'voice'. Candidates will be encouraged to plan projects that might be realised with the performing forces available within the Elder Conservaotium of Music. Projects designed for external groups and organisations will also be encouraged. Practical assistance will be given, where possible to rehears/perform/record candidates' pieces; but live performance is not guaranteed.

Each candidate will complete a composer attachment or internship negotiated by the Head of Composition with either an internal orchestra, large ensemble or choir, or a suitable external group or organisation. The duties of such an attachment will include; assisting the conductor/director of the ensemble; regular attendance at rehearsals; assistance with the preparation and editing of performance materials (eg checking parts against the conductor's score, editing string bowings and other performance articulation, transposing parts if necessary, etc).

MUSICED 4006A/B
Honours Music

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 ea), 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 4011A/B
Honours Musicology

24 units - full year

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: 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 supported by fortnightly performance workshops of 1.5 hours duration - both provide emphasis on style and interpretation

Restriction: Approved honours music students only

Prerequisite: See Program Rule 6.4

Assessment: Recital assessments in the form of public recitals, negotiated projects assessed as satisfactory/unsatisfactory - all components must be passed in order to pass the course

The course consists of a number of topics : Recital 1 (12 units) (65 minute recital)- content and format will not be prescribed as the repertoire may include solo works, chamber music, orchestral material, concerti, accompaniment etc. Recital programs will be subject to approval. Recital 2 (6 units) (35 minute recital) - content and format will not be prescribed as the repertoire may consist of solo works, chamber music, orchestral material, concerti, accompaniment etc. Recital programs will be subject to approval. Negotiated Project (6 units or 2x3 units) - this is intended to allow for a variety of activities, including (but not limited to) ensemble work (small or large), professional activity (such as ASO), research project, concerto, recording project, involvement in some form of stage production or a course/component from another Music Honours program.

PERF 4006AB
Honours Music Pedagogy

24 units - full year

Restriction: Approved honours music students only

Prerequisite: See Program Rule 6.4

Assumed Knowledge: MUSST 2003 / 3004 or equivalent

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.

Music - VET

LEVEL I

VETMUS 1501
Music Industry & Business Management

1 units - semester 2

6 hours lectures

Restriction: VET music students only

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 units - semester 1 or 2

6 hours workshops

Restriction: VET music students only

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 units - semester 1

5 x 1 hour workshops

Restriction: VET music students only

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

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 units - semester 2

4 x 1 hour workshops

Restriction: VET music students only

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

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 (Certificate IV)

2 units - full year

1 hour class per week

Restriction: VET music students only

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 six progressive streams for varying skill levels and areas of particular development.

VETMUS 1605A/B
Ensemble (Certificate IV)

2 units - full year

2 hours rehearsal per week

Restriction: VET music students only

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 1606A/B
History of Commercial Music

2 units - full year

1 hour class per week

Restriction: VET music students only - consult relevant Academic Program Rules

Assessment:Assignments 70%, exam 30%

The history and development of jazz, rock and other forms of popular music are studied in order to develop of understanding of the various styles and artists who have significantly contributed to the evolution of commercial music. The development of research skills is emphasised.

VETMUS 1607A/B
History of 20th Century Music

2 units - full year

1 hour lecture per week

Restriction: VET music students only

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 (Certificate IV)

2 units - full year

1 hour seminar per week

Restriction: VET music students only

Assessment: Exam at the end of each semester

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 (Certificate IV)

4 units - full year

12 hours individual tuition per year

Restriction: VET music students only

Assessment: End of year exam 60%, teacher's report 5%

Students will develop to appropriate levels on an instrument or voice their technical skill, scope of repertoire, stylistic awareness and interpretive ability.

VETMUS 1610A/B
Individual Tuition (Certificate III)

3 units - full year

12 hours individual tuition per year

Restriction: VET music students only

Assessment: End of year exam 60%, teacher's report 5%

Students will develop to appropriate levels on an instrument or voice their technical skill, scope of repertoire, stylistic awareness and interpretive ability.

VETMUS 1611A/B
Aural Development (Certificate III)

2 units - full year

1 hour class per week

Restriction: VET music students only

Assessment: aAs 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 six progressive streams for varying skills levels and areas of particular development.

VETMUS 1612A/B
Ensemble (Certifcate III)

2 units - full year

2 hours rehearsal per week

Restriction: VET music students only

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 (Certificate III)

2 units - full year

1 hour seminar per week

Restriction: VET music students only

Assessment: Exam at the end of each semester

Students will develop secure basic knowledge, understanding and written skills in elementary level music theory and song writing in various genres.

VETMUS 1614A/B
Aural Development (Diploma)

2 units - full year

1 hour class per week

Restriction: VET music students only

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 six progressive streams for varying skills levels and areas of particular development.

VETMUS 1615A/B
Concepts of Music (Certificate IV)

6 units - full year

1 hour lecture, 1 hour tutorial, 1 hour aural per week

Restriction: VET music students only

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

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

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

Corequisite: VETMUS 1702A/B Jazz Theory 1

Assessment: Assignments, projects, exercises 25%, written & practical semester exams 75%

This course aims to provide sufficient stylistic knowledge and technique to allow the student to use keyboard as a means of 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

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

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 (Jazz Certificate IV)

2 units - full year

3 hours rehearsal per week (1 hour supervised)

Restriction: VET music students only

Assessment: Exams (30 minutes playing time) 50%, continuous assessment 50%

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

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 units - full year

1.5 hours workshop per week

Restriction: VET music students only

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

Assessment:Semester 1: teacher assessment 5%, 10 minute practical exam 30%; semester 2: teacher assessment 5%, 15 minute 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

Corequisite: VETMUS 1755 and 1756 Sound Production A and B

Assessment: 2 exams (30 minutes playing time) 50%; continuous assessment 50%

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

Assessment: Weekly class exercises & participation 50%, written & practical exam at end of each semester 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 units - full year

1.5 hours jazz performance forum per week

Restriction: VET music students only

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

Assessment: Weekly class exercises/participation 50%, practical exam end of each semester 50%

Students will study jazz rhythm section instruments including basic piano skills in chord voicing and accompaniment and basic skills on the drum kit playing a variety of styles and rhythmic patterns. Students will develop knowledge of jazz accompaniment through listening and discussion, and will practically apply their learning through opportunities to act as accompanists in ensembles on both keyboard and drum kit.

VETMUS 1755
Sound Production A

2 units - semester 1

1 hour seminar and 1 hour workshop per week

Restriction: VET music students only

Assessment: Technical and creative assignments and exams

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

1 hour seminar and 1 hour workshop per week

Restriction: VET music students only

Assessment: Technical and creative assignments and exams

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

Assessment: End of semester submission of a non-serial composition using 20th/21st century styles/techniques (written, performed & recorded) 50%

Development of practical composition skills based on styles and techniques from 1900 to the present day. Compsitional models will be examined and analysed to identify the compositional techniques and stylistic features to be applied and explored through students' own original creative work.

VETMUS 1802A/B
Keyboard Musicianship (Certificate IV) Major

2 units - full year

1 hour workshop per week

Restriction: VET music students only

Assessment: Exam at end of each semester

Students will expand their skills and knowledge in applied harmony, keyboard musicianship (sight reading, reading from chord symbols, transposition, score reading), keyboard technique and stylistic performance practice.

VETMUS 1804A/B
Performance Class

2 units - full year

1.5 hours class per week

Restriction: VET music students only

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

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 (Certificate IV) Minor

2 units - full year

1 hour workshop per week

Restriction: VET music students only

Assessment: Exam at end of each semester

Students will expand their skills and knowledge in applied harmony, keyboard musicianship (sight reading, reading from chord symbols, transposition, score reading), keyboard technique and stylistic performance practice.

VETMUS 1850A/B
Individual Tuition (Classical Diploma)

4 units - full year

12 hours individual tuition

Restriction: VET music students only

Assessment: End of year exam 30%, teacher's report 5%

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 and 1756 Sound Production A and B

Assessment: Regular performances in appropriate ensemble

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 units - full year

1.5 hours VET/Practical Study Forum

Restriction: VET music students only

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 per week

Restriction: VET music students only

Assessment: 2 x exams at the end of each semester

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 Diploma) Minor

2 units - full year

1 hour workshop per week

Restriction: VET music students only

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 Diploma) Major

2 units - full year

1 hour workshop per week

Restriction: VET music student only

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 1911A/B
Audio Studies (Certificate IV)

4 units - full year

1 hour seminar, 1 hour workshop per week

Restriction: VET music students only

Assessment: Technical and creative assignments and exams

Students will study music software for digital audio sequencing, editing, processing and production. Students will gain technical knowledge whilst achieving creative outcomes in the area of digital audio. Areas explored 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 (Certificate Level)

4 units - full year

1 hour seminar, 1 hour workshop per week

Restriction: VET music students only

Assessment: Technical and creative assignments and exams

Students will study music software for MIDI sequencing and editing. Students will gain practical skills and technical knowledge whilst achieving creative outcomes in the area of MIDI. Areas examined include the MIDI protocol, systems setup, software and hardware implementation, virtual instrumentation, MIDI scoring and performance and advanced techniques. Software may include Cubase, GarageBand, Logic, ProTools, Reason and Live.

VETMUS 1913A/B
Music Technology Forum (Certificate IV)

3 units - full year

2 hour seminar per week

Restriction: VET music students only

Assessment: Technical and creative assignments and presentations

Students will embrace and extend their practical skills, technical knowledge and creative development in the area of music technology. This will be achieved through a range of methods including specialist workshop topics, project participation, performance, industry and artist talks and presentations.

VETMUS 1951A/B
Concepts of Music (Diploma)

3 units - full year

1 hour lecture, 1 hour aural session per week

Restriction: VET music students only

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

1 hour seminar and 1 x 2 hour workshop per week

Restriction: VET music students only

Assessment: Technical and creative assignments and exams

Students will gain practical skills and technical knowledge in the area of studio sound engineering, recording and production. Areas covered include signal flow and gain structure, studio equipment, microphone placement and selection, recording, mixing effects, film sound, post-production, mastering and session management.

VETMUS 1953A/B
Audio Studies (Diploma)

4 units - full year

1 hour seminar, 1 hour workshop per week

Restriction: VET music students only

Assessment: Technical and creative assignments and exams

Students will study music software for digital sequencing, editing, processing and production. Students will gain practical skills and technical knowledge whilst achieving creative outcomes in the area of digital audio. Areas explored include recording, tracking, mixing, post-production, mastering, looping and sound-design. Software used includes Pro Tools, Bias Peak, Logic and Live.

VETMUS 1954A/B
MIDI Studies (Diploma)

4 units - full year

1 hour seminar, 1 hour workshop per week

Restriction: VET music students only

Assessment: Technical and creative assignments and exams

Students will study music software for MIDI sequencing and editing. Students will gain practical skills and technical knowledge whilst achieving creative outcomes in the area of MIDI. Areas examined include the MIDI protocol, systems setup, software and hardware implementation, virtual instrumentation, MIDI scoring and performance and advanced techniques. Software may include Cubase, GarageBand, Logic, ProTools, Reason and Live.

VETMUS 1955A/B
Music Technology Forum (Diploma)

3 units - full year

2 hour seminar per week

Restriction: VET music students only

Assessment: Technical and creative assignments and presentations

Students will embrace and extend their practical skills, technical knowledge and creative development in the area of music technology. This will be achieved through a range of methods including specialist workshop topics, project participation, performance, industry and artist talks and presentations.

VETMUS 1956
Sound Engineering (Live)

2 units - semester 1 or 2

1 hour seminar and 1 x 2 hour workshop per week

Restriction: VET music students only

Assessment: Technical and creative assignments and exams

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.

Nursing Science

LEVEL I

NURSING 100)
Human Sciences 1A

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 1A

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, palpatation, 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 1B

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 pharmocokinetics 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 1B

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: Human Science 1A/1B

Assessment: To be advised

This course will build on the learning from Human Sciences and Nursing Practice 1A & 1B. It will be comprised of the following modules that will facilitate student learning: (i) Human Pathophysiology A: human pathopyhsiology, 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

Prerequisite: Nursing Practice 1A, Nursing Practice 1B

Assessment: To be advised

This course will build on the learning from Human Sciences and Nursing Practice 1A & 1B. 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 1A 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: Human Science 1A/1B

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

Prerequisite: Nursing Practice 1A/ 1B

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: Human Sciences 2A/2B

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 Practice 2A/2B

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 of Clinical Nursing 3A, Communication & Psychosocial 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: Human Sciences 2A/2B and Human Sciences 3A

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 Practice 2A/2B and Nursing Practice 3A

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.

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.

Oenology

LEVEL I

OENOLOGY 1000EX
Introductory Grape and Wine Knowledge I

3 units - semester 1

External, 5 day Residential School in Mid Semester Break

Restriction: B Wine Marketing, Dip Wine Marketing

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
Vineyard and Winery Operations I

3 units - semester 2

External, 5 day Residential School in Mid Semester Break

Restriction: B Wine Marketing, Dip Wine Marketing

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 1018
Foundations of Wine Science I

3 units - semester 1

1 x 2 hour Lecture per week, 3 x 3 hour Practical per Semester, 5 day residential school in Mid Semester Break

Restriction: BSc (Viticulture), B Oenology

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
Vineyard and Winery Operations II

4 units - semester 1

Residential school during mid semester break

Restriction: B. Wine Marketing students or Diploma in Wine Marketing students

Prerequisite: OENOLOGY 1001NW/1001EX

Assessment: To be advised

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 2500EX
Vineyard and Winery Operations II

3 units - semester 1

External, 5 day Residential School in Mid Semester Break

Restriction: B Wine Marketing, Dip Wine Marketing

Prerequisite: OENOLOGY 1001NW or OENOLOGY 1001EX

Assessment: Exam, practical tests, reports

Characteristics of major red wine grape varieties; principles and practices of red wine production; major red wine styles of the world; red wine faults; 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 2501WT
Microbiology for Viticulture and Oenology II

3 units - semester 1

1 hour Lectures, 1 hour Tutorial, 4 hour Practical per week

Restriction: BSc (Viticulture)

Assumed Knowledge: BIOLOGY 1202, BIOLOGY 1101 and OENOLOGY 1018NW

Assessment: Practical attendance, reports,exam, tutorial exercises

An introduction to the biology of microorganisms and invertebrates of importance in agriculture and natural ecosystems with particular emphasis on viticulture and oenology. 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 and occurrence of Botrytis, yeasts and bacteria associated with the vineyard and winery, and their infleunce on grape and wine quality; interactions between wine yeast and bacteria; spoilage and selected strains of yeast in wine; nutritional requirements and wine processing parameters affecting growth and activity of wine yeast; practical skills for manipulating microorganisms and invertebrates and studying their activities.

OENOLOGY 2502WT
Sensory Studies II

3 units - semester 2

2 x 1 hour Lectures, 4 hour Practical per week

Restriction: B Oenology, BSc (Viticulture)

Assumed Knowledge: BIOLOGY 1202, BIOLOGY 1101, OENOLOGY 1018NW, CHEM 1100 or CHEM 1101, CHEM 1102 or CHEM 1201

Assessment: Exams, written exercises, presentations, practicals

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 and wine faults 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, and wine and food interactions.

OENOLOGY 2503WT
Introductory Winemaking II

3 units - semester 2

1 x 2 hour Lecture, 4 hour Practical per week

Assumed Knowledge: BIOLOGY 1202, BIOLOGY 1101, OENOLOGY 1018NW, CHEM 1100 or CHEM 1101, CHEM 1200 or CHEM 1201

Assessment: Practical Reports, Assignments, Exam

Introduction to the Australian wine industry. Chemistry and uni processes of winemaking. Production of table wines, including dry floral fruity white, full bodies white, sweet white, rose, medium and full bodied red wines. Introduction to wine stabilization and maturation processes.

LEVEL III

OENOLOGY 3001WT
Research Project: Oenology III

3 units - semester 1 or 2

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 III

3 units - semester 1 or 2

2 lectures, 4 hours practicals/field trips per week

Restriction: UWA students only

Prerequisite: OENOLOGY 3007WA and OENOLOGY 3047WA

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 III

3 units - semester 1

Up to 6 hours per week including lectures and practicals

Restriction: UWA students only

Prerequisite: OENOLOGY 2024WA

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 III

3 units - semester 1

Average of 6 hours per week including lectures, tutorials, practicals &/or field work

Restriction: UWA students only

Prerequisite: OENOLOGY 2024WA

Corequisite: OENOLOGY 3047WA

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) III

4 units - semester 1

10 weeks work experience

Prerequisite: OENOLOGY 7010WT, OENOLOGY 7047WT and 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 receival and weighbridge; crushing; draining and pressing; fermentation and postfermentation operations and quality control procedures. Furthermore, an understanding of the contribution of each of the specified unit operations to the overall winemaking process is required.

OENOLOGY 3037WT
Distillation, Fortified & Sparkling Winemaking III

3 units - semester 2

Up to 6 hours per week including lectures and practicals - some practical components may be held in mid semester break

Restriction: UWA students only

Prerequisite: OENOLOGY 2024WA, OENOLOGY 2022WA and OENOLOGY 3016WA

Assessment: Practical reports, assignments, written exam

Distillation principles and wine distillation practices. Production of Australian and overseas grape spirits for fortified wine and brandy production. Production of potable distilled beverages other than brandy. Legal requirements of fortified wine production and distillation. Production of Australian and overseas sparking wine styles. Sensory evaluation of spirits, fortified and sparkling wines.

OENOLOGY 3045WT
Advances in Oenology III

3 units - semester 2

Average of 6 hours per week including lectures, tutorials, practicals &/or field work

Restriction: UWA students only

Assumed Knowledge: OENOLOGY 2024

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 III

3 units - semester 2

Average of 6 hours per week including lectures, tutorials, practicals &/or field work

Restriction: UWA students

Prerequisite: OENOLOGY 2024WA and OENOLOGY 2022WA

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 III

3 units - semester 1

Average of 6 hours per week including lectures, tutorials, &/or practicals

Restriction: UWA students only

Prerequisite: OENOLOGY 2024WA and OENOLOGY 2022WA

Corequisite: OENOLOGY 3016WA

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 Dental and Health Science IOH, 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 oro-facial 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 communication and learning, computing, evidence-based dentistry and behavioural science. Communication and learning introduces students to the educational philosophy and various study skills of the BOH program and emphasises the need to be proficient in all modes of communication. Computing will provide the student with a basic understanding of computing fundamentals, electronic record keeping and literature searches. 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. 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 IIOH

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/BHOH, 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 IIOH

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 IIOH

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 IIOH

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

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 IIIOH

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 IIIOH

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 2200
Biology of Disease II

3 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: 2.5 hour written exam 60%, 4 written assignments 40% continuous assessment

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 by course coordinator)

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 provided 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 2100
Drugs, Chemicals and Health

3 units - semester 1

2 lectures, 1 tutorial and 1 workshop per week

Restriction: B.Hlth.Sci, B.Psych.(Hons.) students, B Eng (Pharmaceutical Engineering)

Prerequisite: At least one of the following ANAT SC 1102 Human Biology 1A or GENETICS 1000A/B Molecular and Cell Biology or ENV BIOL 1000A/B Biology 1 (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 2200
Drugs, Chemicals and the Environment

3 units - semester 2

2 lectures per week, 1 tutorial per fortnight, 1 workshop per month

Restriction: B.Hlth.Sci, B.Psych (Hons) students, B Eng (Pharmaceutical Engineering)

Prerequisite: PHARM 2100

Assessment: Exam on lecture material, assessment test, 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 and Engineering students only

Quota will apply

Prerequisite: Minimum 6 units in either of level II biochemistry, chemistry or physiology courses, Or a minimum of 3 units in level II pharmacology or level II pathology

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, 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 2

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 and World

3 units - semester 2

3 contact hours per week

Available for Non-Award Study

Assessment: 1400-1800 word essay 50%, exam 50%

Being human is special. Humans are highly intelligent, language-using organisms, who are capable of building complex systems of knowledge, conscious of themselves and their world, and able to freely choose a path through life. As far as we know, this combination of abilities is unique to ourselves on this planet. But each is somewhat puzzling. How can we be free if, as physics tells us, every event is determined by what comes before it? How can words and symbols, which are mere scribbles (or noises), have meanings? And how do organisms with bodies made of physical materials get to be conscious knowers?

Philosophers have long thought about these puzzling questions. This course is an introduction to some of the answers philosophers have proposed.

PHIL 1103
Morality, Society and the Individual

3 units - semester 1

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 1

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.

ADVANCED LEVEL

PHIL 2029
Beauty: Pleasures and Principles

3 units - semester 2

3 contact hours per week

Prerequisite: 12 units Level I Humanities/Social Sciences including 3 units in Philosophy

Incompatible: PHIL 2024/3034

Assessment: 3,000 word essay, 3 x 1,000 wordreviews/seminar papers

This course introduces students to the central concepts and themes of philosophical aesthetics such as beauty, the sublime, disinterested pleasure, aesthetic judgment, aesthetic form, aesthetic ideas, the ugly, imagination and style. We will study the origin of these notions in

a variety of historical/intellectual contexts through the writings of Plato, Hume, Kant, Hegel and Nietzsche. This will take up the first half of the course. The second half of the course will involve the application of these concepts to contemporary culture through the writings of more recent philosophers. We will assess the potency and relevance of these concepts and themes for understanding the way value and meaning are conveyed through popular art forms like television soap operas but also more challenging art works, including novels, visual art and film. The course will culminate in an analysis of the relation between the narrative of a film and its artistry. This will involve a study of film theory that draws upon research on perception and the emotions in order to understand the way films can be constructed to elicit complex emotions such as those associated with experiences of beauty and the sublime.

PHIL 2030
Cognitive Science: Minds, Brains & Computers

3 units - Offered biennially

3 contact hours per week

Prerequisite: 12 units Level I Humanities/Social Sciences including 3 units in Philosophy; or 12 units Level I Psychology

Incompatible: PHIL 2013/3013

Assessment: 2 x approximately 2,500 words essays

This course provides an introduction to the philosophical and scientific foundations of Cognitive Science, which is a relatively new inter-disciplinary field of study that embraces aspects of philosophy, psychology, computer science and neuroscience. Philosophical topics to be discussed include: the computer as a model of the mind; classical (digital) and connectionist (analog) computational theories of cognition; embodiment and distributed cognition; and the impact of recent evolutionary approaches to cognition. In addition students will be introduced to current scientific knowledge on the topics of perception; memory and concepts; and attention and executive control.

PHIL 2035
Foundations of Modern Philosophy

3 units - semester 1

3 contact hours per week

Prerequisite: 12 units Level I Humanities/Social Sciences, including 3 units in Philosophy

Incompatible: PHIL 2007/3007

Assessment: 3 x 2,000 word essays

All traditions in western philosophy are shaped by a series of challenges which occupied philosophers from about the seventeenth century. Philosophers in this modern period tried to come to grips with the consequences of an emerging scientific approach for our understanding of the world and our place in it. Ethics, political philosophy, the theory of knowledge, philosophy of language, philosophy of religion, metaphysics and the philosophy of mind would never be the same again. In this course we look at the work of philosophers such as Rene Descartes, John Locke, George Berkeley, David Hume, G.W. Leibniz and Immanuel Kant on these themes, with particular emphasis on tracing connections between their arguments and those of present day philosophers. It turns out that many of our present day conundrums over, for example, the nature of political obligation, the role of experience in gaining knowledge of the world, the nature of the mind and our knowledge of ourselves, were anticipated and discussed by these thinkers.

PHIL 2036
How Should I Live? Contemporary Ethical Theories

3 units - semester 1

3 contact hours per week

Prerequisite: 12 units Level I Humanities/Social Sciences, including 3 units in Philosophy

Incompatible: PHIL 2020/3020

Assessment: Essays totalling 5,000 words

For each of us, the question of how we should live is inescapable. How should we answer this question, and how should we justify our answer? This course investigates the range of answers offered by contemporary ethical philosophers. A variety of normative ethical theories - theories telling us how to live - will be examined, including forms of consequentialism, contractualism, contemporary Kantian and Aristotelian views. We should also be looking at meta-ethical theories that try to explain what ethical thought is, and in particular at the issue of whether there can be objective ethical facts.

Students completing this course should be able to: describe accurately the main normative ethical and meta-ethical theories covered by the course; state the most important arguments for and against those theories; evaluate the plausibility of those arguments, offering clearly articulated reasons for their evaluation; develop detailed and well-structured arguments for conclusions concerning two of the topics covered by the course.

PHIL 2038
Logic II

3 units - semester 2

3 contact hours per week

Prerequisite: 12 units at Level I in any Faculty including at least one of Logic I, Discrete Mathematics, Mathematics I or Computer Science I, or permission of the Course Coordinator

Incompatible: PHIL 2110

Assessment: 2 take-home exams 20% each, 2 hour open-book exam 40%, 1,000 word essay 20%

Logic II is a course in symbolic logic which builds on the material presented in Logic I. The content of the course is primarily formal in nature. It begins by treating Classical Logic in greater depth and with a more formal emphasis than in Logic I: in particular, by introducing proof theory for propositional and quantifier logics. We then move on to Non-Classical Logics, including modal logic and possible-world semantics, and many-valued logics. There is also some discussion of philosophical issues arising from the logics studied, in particular, the semantic paradoxes. Entry into Logic II is either via Logic I, or via a first-year course with substantial formal content and a component of logic (such as Mathematics I or Computer Science I).

PHIL 2039
Mental Representation, Consciousness and Self

3 units - semester 2

3 contact hours per week

Prerequisite: 12 units Level I Humanities/Social Sciences, including 3 units in Philosophy; or Cognitive Science: Minds, Brains & Computers; or approved by the Head of Discipline

Incompatible: PHIL 2016/3016

Assessment: 2 x 2,500 word (approx) essays

In spite of the huge advances made in other areas of natural science, much about the human mind remains mysterious. In particular, there are three outstanding problems concerning the mind and its relationship to the world: How does the mind construct mental representations, and in doing so impose meaning on a material universe? What is the nature of consciousness and how can it be explained naturalistically? What is the nature of self and how is it constructed by the human brain? This course will examine each of these questions, and survey the most promising answers developed by contemporary philosophers of mind.

PHIL 2042
Moral Problems

3 units - semester 2

3 contact hours per week

Prerequisite: 12 units Level I courses in any Faculty

Incompatible: PHIL 2011/3011

Assessment: Essays totalling 5,000 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 the 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.

Students completing this course should be able to: identify the main ethical issues surrounding the nine areas of ethical controversy covered by the course; state the most important arguments on both sides of those controversies; evaluate the plausibility of those arguments, offering clearly articulated reasons for their evaluation; identify the underlying questions of principle and moral theory on which the resolution of these ethical controversies depends; develop detailed and well-structured arguments for conclusions concerning two of the topics covered by the course.

PHIL 2045
Professional Ethics

3 units - offered biennially

3 contact hours per week

Prerequisite: 12 units Level I in any Faculty

Incompatible: PHIL 2023/3023

Assessment: 2 x 2,500 word essays 50% each

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. This course will be suitable for anyone at Advanced Level, including any graduate. 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 2047
Reality and Knowledge

3 units - semester 1

3 contact hours per week

Prerequisite: 12 units Level I Humanities/Social Sciences, including 3 units in Philosophy

Incompatible: PHIL 2017/3017

Assessment: 2 x 2,500 word essays

Metaphysics is the attempt to understand in the most abstract and systematic way the nature of reality. It deals with the fundamental concepts like the self and personal identity, causation, the mind and the nature of time and space. Epistemology is the study of knowledge. The two subjects influence each other when we come to consider the nature of truth and explanation. In this course students will be introduced to some of the central questions in epistemology and metaphysics in both their traditional forms. We may discuss questions like 'Are you the same person as the child born to your parents?' and 'Is time an illusion?'

PHIL 2048
Philosophy of Film

3 units - semester 1

3 contact hours per week

Prerequisite: 12 units Level I in any Faculty

Assessment: Discussion paper 20%, essay 40%, final exam 40% - total of 5,000 words

This course is concerned with films in general. It will examine conceptions of and problems related to film as a cognitive or aesthetic medium. An important focus will be on the necessity of attaining conceptual clarity and rigor in answer to questions like What is film? Is film an art? How does film art relate to other forms of art? What aesthetic features are unique to the film medium?

How does film communicate thought or engage us emotionally? The course will not be primarily a course of "philosophy in or as film", nor a course in "film studies". In distinction to much film theory, the specific aim of the present course is to develop ways of thinking about film informed by and related to insights and arguments from analytical and cognitive philosophy. Important aspects of film as an artistic medium will be explored. Some time will be spent discussing particular issues in relation to: (1) the nature of film; (2) film and authorship; (3) film and emotional engagement; and (4) film as a source of knowledge or insight.

CAPSTONE

PHIL 3100
Advanced Topic in Moral and Social History

3 units - semester 1 (Not offered until 2010)

3 contact hours per week

Prerequisite: 15 units of Philosophy with no more than 6 units at Level I

Assessment: 2 x 2,500 word essays, one developed from a seminar presentation, 50% each

This capstone course will focus on advanced topics in ethics, social and political philosophy, and aesthetics. It will act as a suitable culmination to a major in Philosophy, and a bridge into Honours, with an emphasis on in-depth treatment of more narrowly focused topics. The content is not fixed in advance, but will be determined from year to year by a combination of available expertise and the latest research in the field.

PHIL 3101
Advanced Topic in Metaphysics and Epistemology

3 units - semester 2 (Not offered until 2010)

3 contact hours per week

Prerequisite: 15 units of Philosophy with no more than 6 units at Level I

Assessment: 2 x 2,500 word essays, one developed from a seminar presentation, 50% each

This capstone course will focus on advanced topics in contemporary epistemology and metaphysics, and specialist areas such as cognitive science, philosophy of science, and philosophy of language. It will act as a suitable culmination to a major in Philosophy, and a bridge into Honours, with an emphasis on in-depth treatment of more narrowly focused topics. The content is not fixed in advance, but will be determined from year to year by a combination of available expertise and the latest research in the field.

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 should consult with the Honours Coordinator before the end of January.

Prospective Honours students are advised that atleast 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 least3 units from each area in Advanced Level 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. 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 x 1 hour lecturesk, 1 tutorial per week, practical work: evening sessions for observation of moon

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 1005
Physics, Ideas and Society I

3 units - semester 2

2 x 1 hour lectures, 1 hour 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 x 1 hour lectures, 1 hour tutorial per week, 3 hours experimental/observational work per fortnight

Restriction: BSc (Space Science & Astrophysics)

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 x 1 hour lectures, 1 hour tutorial per week, 5 x 3 hour practicals per semester

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 and 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 Physics 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 x 1 hour lecturesk, 1 hour tutorial per week, 5 x 3 hour practicals per semester

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

Incompatible: PHYSICS 1101 and 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 x 1 hour lectures, 1 hour tutorial per week, 5 x 3 hour practicals per semester

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 and 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 x 1 hour lectures, 1 hour tutorial per week, 5 x 3 hour practicals per semester

Available for Non-Award Study

Prerequisite: PHYSICS 1100 (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 1013 and PHYSICS 1100

Incompatible: PHYSICS 1201 and 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 x 1 hour lectures, 1 hour tutorial per week, 5 x 3 hour practicals per semester

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: PHYSCS 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.

PHYSICS 1501
Physics for the Life & Earth Sciences I (Pre-Vet)

3 units - semester 1

3 x 1 hour lectures, 1 hour tutorial per week, 5 x 3 hour practicals per semester

Restriction: BS (Animal Science: Pre-Vet)

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 1508

Assessment: Written exam, tutorial work, practical work

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 1508
Physics Principles & Applications I (Pre-Vet)

3 units - semester 1

3 x 1 hour lectures, 1 hour tutorial per week, 5 x 3 hour practicals per semester

Restriction: BSc (Animal Science: Pre-Vet) without SACE Stage 2 Physics or with a Subject Achievement score of less than 13 or equiv

Incompatible: PHYSICS 1501

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 Physics principles and applications in their other studies. The course introduces concepts of force, energy, thermal physics, fluids and DC electricity.

LEVEL II

PHYSICS 2510
Physics IIA

3 units - semester 1

2 x 1 hour lectures, 1 hour tutorial, 4 hour practicals per week

Available for Non-Award Study

Prerequisite: PHYSICS 1100, PHYSICS 1200 and either MATHS 1012 or MATHS 2004 - Other students may apply to Head of Physics for exemption

Corequisite: MATHS 2101 and MATHS 2102

Incompatible: PHYSICS 2100 and PHYSICS 2004

Assessment: Tests, practical work, written exam

Quantum Mechanics - Wave mechanics with examples from atomic, sub-atomic and solid state physics. Photons, Compton scattering, de Broglie hypotheses, Heisenberg Uncertainty Principle, probability distributions, probability density, plane waves, expectation values, operators, commutators, Schroedinger equation, energy quantisation, particle in one- and three-dimensional box, eigenstates and degeneracy, parity, compatible observables, polarised light, measurement, probability

flux, one-dimensional bound states and scattering, barrier penetration, magic numbers, Fermi gas, harmonic oscillator. Practical work - instrumentation, general physics, modern physics.

PHYSICS 2520
Physics IIB

3 units - semester 2

2 x 1 hour lectures, 1 hour tutorial, 4 hour practicals per week

Available for Non-Award Study

Prerequisite: PHYSICS 2510, MATHS 2101 and MATHS 2102. Other students may apply to Head of Physics for exemption

Incompatible: PHYSICS 2200 and PHYSICS 2525

Assessment: Tests, practical work, written exam

Optics - geometrical and physical optics; ray tracing, aberrations, polarisation, diffraction. Condensed Matter Physics - Introduction to crystal structures: electronic, acoustic and photonic energy bands: crystal growth and defects: transport of electrons and holes: carrier generation and recombination: diodes and optoelectronics. Practical work - electromagnetism, optics, properties of solids, projects.

PHYSICS 2525
Physics IIB (Optics and Photonics)

3 units - semester 2

2 x 1 hour lectures, 1 hour tutorial, 4 hour practicals per week

Restriction: BSc (Optics and Photonics)

Prerequisite: PHYSICS 2510, MATHS 2101 and MATHS 2102 - Other students may apply to Head of Physics for exemption

Incompatible: PHYSICS 2200 and PHYSICS 2520

Assessment: Tests, practical work, written exam

Optics - geometrical and physical optics; ray tracing, aberrations, polarisation, diffraction. Condensed Matter Physics - Introduction to crystal structures: electronic, acoustic and photonic energy bands: crystal growth and defects: transport of electrons and holes: carrier generation and recombination: diodes and optoelectronics. Practical work - electromagnetism, optics, properties of solids, photonics projects.

PHYSICS 2530
Astrophysics II

3 units - semester 2

2 x 1 hour lectures, 1 hour tutorial per week, 5 x 4 hour practicals per semester

Available for Non-Award Study

Prerequisite: PHYSICS 1100 or PHYSICS 1101, PHYSICS 1200 or PHYSICS 1201, MATHS 1012 or MATHS 2004 - Other students may apply to Head of Physics for exemption

Incompatible: PHYSICS 2010, PHYSICS 2201 and PHYSICS 2536

Assessment: Practical work, marked tutorials, essay, written exam

Protostars and star formation; stellar interiors and stellar evolution; supernovae and pulsars; introduction to the heliosphere; introduction to the terrestrial ionosphere and magnetosphere, and the local space environment. Practical Work: Astrophysics related experiments.

PHYSICS 2532
Classical Physics II

3 units - semester 2

3 x 1 hour lectures, 1 hour tutorial per week

Available for Non-Award Study

Prerequisite: PHYSICS 1100, PHYSICS 1200, MATHS 2101 and MATHS 2102 - Other students may apply to Head of Physics for exemption

Incompatible: PHYSICS 2001

Assessment: Tests, practical work, written exam

Classical Mechanics: Applications of Newton's Laws: damped oscillations, resonance, waves on a string, conservation laws, central forces, orbits and scattering. Non-inertial reference frames. Many-particle systems, rigid bodies, moment of inertia tensor, angular momentum, Euler's equations, precession and nutation. Thermodynamics - equilibrium, 1st and 2nd laws, entropy, cyclic thermodynamic processes, applications.

PHYSICS 2534
Electromagnetism II

3 units - semester 2

3 x 1 hour lectures, 1 hour tutorial per week

Available for Non-Award Study

Prerequisite: PHYSICS 1100, PHYSICS 1200, MATHS 2101 and MATHS 2102 - Other students may apply to Head of Physics for exemption

Incompatible: PHYSICS 2002, PHYSICS 2200 and PHYSICS 2520

Assessment: Tests, written exam

Vector analysis; line, index notation, surface and volume integrals; curvilinear coordinates; Gauss and Stokes theorem, Gauss's law, Dirac delta function; vector rotation and tensors. Electrostatics and electric potential, Poisson and Laplace equations, boundary value problems and method of images, magnetostatics, electromagnetic induction Circuit theory: revision of Kirchhoff's laws, RLC and AC circuits; complex impedance and AC circuits; filters, transfer functions.

PHYSICS 2536
Space Science and Astrophysics II

3 units - semester 2

2 x 1 hour lectures, 1 hour tutorial per week, 5 x 4 hour practicals per semester

Restriction: BSc (Space Sci & Astrophysics), BEng (Aerospace), BSc

Prerequisite: PHYSICS 1100, PHYSICS 1200 and either MATHS 1012 or MATHS 2004 - Other students may apply to Head of Physics for exemption.

Incompatible: PHYSICS 2010, PHYSICS 2201 and PHYSICS 2530

Assessment: Marked tutorials, essay, practical work, written exam

Protostars and star formation; stellar interiors and stellar evolution; supernovae and pulsars; introduction to the heliosphere; introduction to the terrestrial ionosphere and magnetosphere, and the local space environment. Practical Work: Projects

PHYSICS 2550
Physics, Ideas & Society II

3 units - semester 2

2 x 1 hour lectures, 1 hour tutorial per week

Available for Non-Award Study

Prerequisite: 6 units at level I

Assessment: Major Essay, tutorial assessment

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 and 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 will 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.

LEVEL III

PHYSICS 3000
Computational Physics III

2 units - semester 1

2 x 1 hour lectures, 1 hour tutorial per week

Available for Non-Award Study

Prerequisite: PHYSICS 2100 or PHYSICS 2004, APP MATHS and 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 x 1 hour lectures, 1 hour tutorial per week

Available for Non-Award Study

Prerequisite: PHYSICS 2100, PHYSICS 2200, APP MATHS 2000 and APP MATH 2002 - other students may apply to Head of Physics for exemption

Assumed Knowledge: PHYSICS 2002

Incompatible: PHYSICS 3018 and 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

2 x 4 hours practical work per week

Prerequisite: PHYSICS 2100 and 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 x 1 hour lectures, 1 hour tutorial per week

Available for Non-Award Study

Prerequisite: PHYSICS 2100 or PHYSICS 2004, APP MATHS 2000 and 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 III

3 units - semester 2

3 x 1 hour lectures, 1 hour tutorial per week

Available for Non-Award Study

Prerequisite: PHYSICS 2002 or PHYSICS 2000A/B in 2002 or 2003, PHYSICS 2001, APP MTH 2000 and 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 x 1 hour lectures per week, 1 x 1 hour tutorial per fortnight

Available for Non-Award Study

Prerequisite: PHYSICS 1100 and PHYSICS 1200, APP MTH 2000 and APP MTH 2002 - other students may apply to Head of Physics for exemption

Assumed Knowledge: PHYSICS 2100 or PHYSICS 2004 and 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 x 1 hour lectures per week, 1 x 1 hour tutorial per fortnight

Available for Non-Award Study

Prerequisite: PHYSICS 2100 and 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 x 1 hour lectures per week, 1 x 1 hour tutorial per fortnight

Available for Non-Award Study

Prerequisite: PHYSICS 2100 and 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: Industrial Cooperation IIIA

0 units - semester 2

4-5 months full-time work on a project in industry - sem 2, Year 3

Prerequisite: Credit or above in PHYSICS 2100 or PHYSICS 2200 and 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 3017
Education in Physics: Industrial Cooperation IIIB

0 units - semester 1

4-5 months full-time work on a project in industry - sem 1, Year 4

Prerequisite: Credit or above in PHYSICS 2100 or PHYSICS 2200 and 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

3 x 1 hours lectures, 1 hour tutorial per week for 8 weeks

Prerequisite: PHYSICS 2100 and PHYSICS 2200 or PHYSICS 2211 and PHYSICS 2004, APP MATHS 2000 and APP MATH 2002 - other students may apply to Head of Physics for exemption

Assumed Knowledge: PHYSICS 2002

Incompatible: PHYSICS 3001 and 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

3 x 1 hours lectures, 1 hour tutorial per week for 8 weeks

Restriction: BE (Electrical & Electronic), BSc (Physics)

Prerequisite: PHYSICS 2100, PHYSICS 2200, APP MATHS 2000 and APP MATH 2002

Assumed Knowledge: PHYSICS 3018 or equiv

Incompatible: PHYSICS 3001 and 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 x 1 hour lectures per week, 1 x 1 hour tutorial per fortnight

Available for Non-Award Study

Prerequisite: PHYSICS 2100, PHYSICS 2200 and 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 x 1 hour lectures per week, 1 x 1 hour tutorial per fortnight

Available for Non-Award Study

Prerequisite: PHYSICS 3004, PHYSICS, APP MTH 2000 and 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 IIIP

3 units - semester 2

2 x 1 hour lectures, 3 hours practical per week, 1 hour tutorial per fortnight

Restriction: BSc (Optics and Photonics)

Prerequisite: PHYSICS 2100, PHYSICS 2200 and PHYSICS 2009 or PHYSICS 2510, PHYSICS 2520 and PHYSICS 2525

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.

HONOURS

PHYSICS 4000A/B
Honours Physics

24 units - full year

Prerequisite: PHYSICS 3004, PHYSICS 3006, PHYSICS 3009, PHYSICS 3022 and other Level III Science or Math. Sc courses, 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 3004, PHYSICS 3006, PHYSICS 3009, PHYSICS 3022 and other Level III Science or Math.Sc. courses, 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.

Physiology

LEVEL II

PHYSIOL 2510
Human Physiology IIA: Heart, Lung & Neuromuscular

3 units - semester 1

3 x 1 hour lectures per week, 4 hour practical per fortnight

Available for Non-Award Study

Prerequisite: CHEM 1100 or CHEM 1101, CHEM 1200 or CHEM 1201, BIOLOGY 1101 and BIOLOGY 1201

Incompatible: PHYSIOL 2511

Assessment: Written exam, practical assessments

Physiology is the study of the function of the human body. This course is designed to develop critical skills and provide a foundation in human physiology with an emphasis on homeostasis and human performance. The major lecture topics covered are cellular physiology, neuromuscular physiology, and the cardiovascular and respiratory systems. Topics include how the cardiovascular and respiratory systems adapt in normal conditions and during challenges such as exercise and stress. In the practical laboratory sessions, students undertake a human-based research project that includes the testing of a hypothesis, review of the relevant research literature, collection and analysis of data, and presentation of results and conclusions. The practical component is supported by workshops that lead to a deeper understanding of research methods, ethical considerations, experimental techniques, and data processing in scientific research.

PHYSIOL 2511
Human Physiology IIA: (Biomedical Science)

3 units - semester 1

3 x 1 hour lectures per week, 4 hour practical per fortnight

Restriction: BSc (Biomedical Science)

Prerequisite: CHEM 1100 or CHEM 1101, CHEM 1200 or CHEM 1201, BIOLOGY 1101 and BIOLOGY 1201

Assumed Knowledge: 6 units of Level 1 Physics

Incompatible: PHYSIOL 2510

Assessment: Written exam, practical assessments

Physiology is the study of the function of the human body. The components of this course are designed to develop the skills and attributes of a research scientist in the biomedical sciences. The major lecture topics covered are cellular physiology, neuromuscular physiology, and the cardiovascular and respiratory systems. Topics include how the cardiovascular and respiratory systems adapt in normal conditions and during challenges such as exercise and stress. In the practical laboratory sessions, students undertake a human-based research project that includes the testing of a hypothesis, review of the relevant research literature, collection and analysis of data, and presentation of results and conclusions. The practical component is supported by workshops that lead to a deeper understanding of research methods, ethical considerations, experimental techniques, and data processing in scientific research.

PHYSIOL 2520
Human Physiology IIB: Systems & Homeostasis

3 units - semester 2

3 x 1 hour lectures per week, 4 hour practical per fortnight

Available for Non-Award Study

Prerequisite: CHEM 1100 or CHEM 1101, CHEM 1200 or CHEM 1201, BIOLOGY 1101 and BIOLOGY 1201

Incompatible: PHYSIOL 2521

Assessment: Written exam, practical assessments

Physiological interactions between the nervous system and endocrine system maintain homeostasis and health. Themes in this course are the functions of the central and peripheral nervous system; the renal system (kidney) in regulation of fluid and ion levels; the gastrointestinal tract (gut) in providing nutrition to the body; and the endocrine (hormone) system; and integration of the two interacting control systems involving hormonal and neural signaling. In the practical laboratory sessions, students undertake a human-based research project that includes the testing of a hypothesis, review of the relevant research literature, collection and analysis of data, and presentation of results and conclusions. The practical component is supported by workshops that lead to a deeper understanding of research methods, ethical considerations, experimental techniques, and data processing in scientific research.

PHYSIOL 2521
Human Physiology IIB: (Biomedical Science)

3 units - semester 2

3 x 1 hour lectures per week, 4 hour practical per fortnight

Restriction: BSc (Biomedical Science)

Prerequisite: CHEM 1100 or CHEM 1101, CHEM 1200 or CHEM 1201, BIOLOGY 1101 and BIOLOGY 1201

Assumed Knowledge: 6 units of Level 1 Physics, PHYSIOL 2511

Incompatible: PHYSIOL 2520

Assessment: End of semester written exam, practical assessments

Physiological interactions between the nervous system and endocrine system maintain homeostasis and health. Themes in this course are the functions of the central and peripheral nervous system; the renal system (kidney) in regulation of fluid and ion levels; the gastrointestinal tract (gut) in providing nutrition to the body; and the endocrine (hormone) system; and integration of the two interacting control systems involving hormonal and neural signaling. The components of this course are designed to develop the skills and attributes of a research scientist in the biomedical sciences. In the practical laboratory sessions, students undertake a human-based research project that includes the testing of a hypothesis, review of the relevant research literature, collection and analysis of data, and presentation of results and conclusions. The practical component is supported by workshops that lead to a deeper understanding of research methods, ethical considerations, experimental techniques, and data processing in scientific research.

LEVEL III

PHYSIOL 3000
Advanced Systems Physiology III

6 units - semester 2

3 x 1 hour lectures, 4 hour practical, 1 hour workshop per week

Available for Non-Award Study

Prerequisite: PHYSIOL 2510 and PHYSIOL 2520 or equivalents

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 x 1 hour lectures, 4 hour practical, 1 hour workshop per week

Available for Non-Award Study

Prerequisite: PHYSIOL 2510 and PHYSIOL 2520 or equivalents

Incompatible: PHYSIOL 3102 or 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

3 x 1 hour lectures, 1 hour tutorial, 4 hour practical per week

Restriction: Bachelor of Medicine and Surgery

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 and PHYSIOL 3102 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

3 x 1 hour lectures, 1 hour tutorial, 4 hour practical per week

Restriction: Bachelor of Medicine and Surgery

Minimum 18 enrolments required to offer this course, maximum 36

Prerequisite: Pass at 2nd year final exam of MBBS

Incompatible: PHYSIOL 3000 and PHYSIOL 3102 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 x 1 hour lectures, 1 hour tutorial 5 hour practical per week

Restriction: BSc (Biomedical Science)

Prerequisite: PHYSIOL 2511 and PHYSIOL 2521 or equiv

Incompatible: PHYSIOL 3001 and PHYSIOL 3003

Assessment: Written exams, research project, written assignments, evaluation of laboratory performance, participation

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 x 1 hour lectures, 1 hour tutorial 5 hour practical per week

Restriction: BSc (Biomedical Science)

Prerequisite: PHYSIOL 2511 and PHYSIOL 2521 or equiv

Incompatible: PHYSIOL 3000 and PHYSIOL 3001

Assessment: Written exams, research project, written assignments, evaluation of laboratory performance, participation

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 I

3 units - semester 1

1 x 2 hour lecture, 1 hour tutorial, 3 hour practical per week

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.

LEVEL II

PLANT SC 2500WT
Microbiology and Invertebrate Biology II

3 units - semester 1

1 x 2 hour lecture, 1 hour tutorial, 4 hour practical per week

Available for Non-Award Study

Assumed Knowledge: BIOLOGY 1101, BIOLOGY 1103RW and BIOLOGY 1203RW

Incompatible: OENOLOGY 2501WT

Assessment: Exam, practical reports, presentation

An introduction to the biology of microorganisms and invertebrates of importance in agriculture, food, 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; features of saprophytic, pathogenic, symbiotic and commensal lifestyles; interactions of microorganisms with their environment, including plants and animals; 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.

LEVEL III

PLANT SC 3002WT
Biotechnology in the Food and Wine Industries III

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 III

3 units - semester 2

2 hour lecture, 4 hour practical per week

Prerequisite: PLANT SC 2001WT, ENV BIOL 2006, VITICUL 2002WT or BIOLOGY 1203RW 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 III

6 units - semester 2

3 hour Lecture, 1 hour tutorial, 4 hour practical per week

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 & Food Science

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 III

3 units - full year

Presented Online

Prerequisite: PLANT SC 3030AEX

Assessment: As for PLANT SC 3030AEX

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 III

3 units - semester 1

2 hour Lecture, 4 hour Practical per week

Assumed Knowledge: PLANT SC 2004WT, OENOLOGY 2025WT, PLANT SC 2003RW, MICRO 2004 and ENV BIOL 2006

Incompatible: APP ECOL 3011WT and 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 III

3 units - semester 1

2 hour lecture, 4 hour practical per week

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 III

3 units - semester 1

2 hour lecture, 4 hour practical per week

Assumed Knowledge: ANIML SC 2029WT or APP ECOL 1004RW/ BIOLOGY 1103RW or GENETICS 2100 or equiv

Incompatible: PLANT SC 3007WT and 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 III

3 units - semester 2

2 hour lecture, 4 hour practical per week

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.

HONOUIRS

PLANT SC 4003AWT/BWT
Honours Plant Science (BAgSc)

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 5.6.2

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 1 (Not offered until 2010)

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 2

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: Final paper 40% (1400-1800 words), mid-term paper 20% (700-900 words), tutorial presentation & participation 20%, multiple-choice test 20%

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.

ADVANCED LEVEL

POLI 2100
Intelligence and Security after the Cold War

3 units - semester 1

3 contact hours per week

Available for Non-Award Study

Prerequisite: 12 units Level I Humanities/Social Sciences

Assessment: Exercises 20%, multiple-choice test 10%, participation 10%, 1,500 word Short Paper 20%, 2,500 word Major Essay 40%

This course will allow students to explore the rapidly evolving relationship between intelligence and security, concentrating especially on the intelligence gathering and interpretation after the collapse of the Soviet Union and the end of the Cold War. In order to provide a full background for such study, the subject will introduce students to concepts and theory in intelligence studies, and provide them with an understanding of how these fit into the broader context of the International Relations discipline. Of particular interst here, and particularly in the context of rapid scientific advances and the technologically-conditioned process of globalization, will be a discussion of whether intelligence studies are an art or a science, and how well have intelligence agencies coped with their work being more and more visible in the public domain, and their techniques increasingly open to public scrutiny? Leading on from this line of enquiry is an examination of how these aspects of intelligence studies have been influenced by the imperatives of creating Security States in the post-9/11 world order, and how local communities are managed in such an environment. Such critical perspectives will be informed by attention to specific case studies in our own region and farther abroad.

POLI 2102
The Politics of Sexuality

3 units - semester 1

3 contact hours per week

Available for Non-Award Study

Prerequisite: 12 units Level I Humanities/Social Sciences

Assessment: Participation 20%; 1,500 word Short Paper 30%; 3,000 word Major Essay 50%

This course will provide a comprehensive, accessible and lively overview of key frameworks, debates and policy issues in the expanding field of Sexuality Studies in a national and international context. Sexuality is a crucial aspect of human life and is critical to understandings of forms of power in societies. Moreover, ideas in this field are decidedly at the 'cutting edge' of contemporary socio-political thought and public policy. Yet it remains little understood or discussed, and is often equated exclusively with either women or non-heterosexual issues. By contrast, this course attends to Feminist, Masculinity and Sexuality Studies, and considers sexuality in terms of citizenship and identity as it impacts on the lives of men and women across the world. The course will firstly deal with theoretical frameworks and debates, including the significance of biology, the 'sex wars' in contemporary

culture, theorising pleasure/desire, and the relation of sexuality to gender identities and the treatment of sexuality within media and popular cultural forms such as film. Secondly, the course will consider a range of international questions (such as human rights, global legal matters, and media representations), as well as national concerns (such as sexual education and heterosexuality, same-sex marriage, and transgender identities). The aim is to provide a short but thorough guide to the whole field.

POLI 2104
Incredible India: Dynamics of a Rising World Power

3 units - Offered biennially

3 contact hours per week

Available for Non-Award Study

Prerequisite: 12 units Level I Humanities/Social Sciences

Incompatible: POLI 2094/3094

Assessment: 1,500 word minor essay 30%, 3,500 word major essay 50%, tutorial participation 20%

This course will briefly examine India's emergence as a potential superpower in the 21st century. After a brief survey of the geography, anthropology and history of south Asia, the course will trace major changes in India since 1947. The major focus in this part of the course will be on contemporary issues arising from rapid economic transformation. Topics will include the decline of the Congress Party and the emergence of the Hindu-nationalist BJP, the impact of economic reforms, social and environmental consequences of the Green Revolution in agriculture, the growing political power of India's Backward Castes and ex-Untouchables, the emergence of India's middle class, the changing role of women, and the growth and international influence of Indian films and music.

The course will compare developments in India with those occurring in its south Asian neighbours Pakistan, Bangladesh, Sri Lanka and Nepal. It will also look briefly at the south Asian diaspora. The course will also examine India's relations with its neighbours, focusing especially on relations with Pakistan and the global significance of both nations as nuclear weapons states.

POLI 2105
Issues in Australian Politics

3 units - semester 2

3 contact hours per week

Available for Non-Award Study

Prerequisite: 12 units Level I Humanities/Social Sciences

Incompatible: POLI 2071/3071

Assessment: 1,500-2,000 word tutorial paper 30%, 3,500-4,000 word essay 60%, tutorial participation 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 emotion; the politics of identity e.g. gender, race, ethnicity, religion and the politics of sexuality; the politics of the media; environmental politics and climate change; 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 (including debates over Australian values and identity). The course draws on a wide range of analytical and theoretical frameworks from cybertheory to Foucaultian theories of governmentality.

POLI 2106
Justice, Virtue and the Good

3 units - semester 2

3 contact hours per week

Available for Non-Award Study

Prerequisite: 12 units Level I Humanities/Social Sciences

Incompatible: POLI 2009/3009

Assessment: 3,000 word essay 50%, essay research exercise (abstract & annotated bibliography) (20%), multiple choice & short answer test 20%, tutorial participation 10%

This course traces the ideas of justice, virtue and the good - concepts of moral action and normative judgment which lie at the foundations of Western political institutions and moral systems. This course provides students with a familiarity with and understanding of important theoretical concepts embedded in selected classical texts and intellectual traditions of Western political philosophy.

POLI 2107
Passions and Interests: The History of Greed

3 units - semester 1

3 contact hours per week

Available for Non-Award Study

Prerequisite: 12 units Level I Humanities/Social Sciences

Incompatible: POLI 2017/3017

Assessment: 1,500 word minor paper 30%, 3,500 word major essay 50%, tutorial participation 20%

The course is about self-interest, which is really a polite word for greed. It attempts to solve the puzzle of how greed was transformed from a Deadly Sin (avarice) to a cool virtue. How could Gordon Gecko seduce his audience so easily in the movie Wall Street with his 'Greed is Good' speech? How did we get from there to here?

The course will canvas seventeenth, eighteenth and nineteenth century responses to the emergence of market society 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 the idea of greed. This history will cover, among other things, an exploration of the following institutions, phenomena and ideas: the division of labour; markets; luxury; the proper role of the state: liberalism and its critics; progress; virtues; classical communitarianism, anarchism, utilitarianism, classical political economy, the guaranteed basic income and the Grameen Bank. The course will conclude with a close study of the film Wall Street and a reflection on whether

enlightened self-interest is enough to keep societies in motion. Featured thinkers include: Marcus Aurelius, Machiavelli, Hobbes, Mandeville, Adam Smith, Marx, Weber, Hayek, Fukuyama, Singer and van Parjis.

POLI 2108
Post-Cold War International Relations

3 units - semester 1

3 contact hours per week

Available for Non-Award Study

Prerequisite: 12 units Level I Humanities/Social Sciences

Incompatible: POLI 2081/3081

Assessment: Essay plan and annotated bibliography (1,000 words) 10%, 4,000 word major essay 60%, tutorial presentation 10%, 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. It therefore examines issues and events such as the Yugoslav Wars of the 1990s or the 9/11 attack on the United States, exploring too the interpretations and understandings of those events of politicians, scholars and other commentators.

POLI 2109
The Ethics of War and Peace

3 units - semester 1

3 contact hours per week

Available for Non-Award Study

Prerequisite: 12 units Level I Humanities/Social Sciences

Incompatible: POLI 2022/3022

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 2110
Politics, Power and Popular Culture

3 units - semester 2

3 contact hours per week

Available for Non-Award Study

Prerequisite: 12 units Level I Humanities/Social Sciences

Incompatible: POLI 2079/3079

Assessment: 1,500 word essay 30%, 3,500 word essay 60%, tutorial participation 10%

The course will introduce students to the theory of politics and then show how this is represented in popular culture (notably film). The course seeks to investigate the modes of political power (micro-power and sovereignty) and the manner by which these are represented within the media and popular culture (using filmic examples from Hollywood, Britain and Australia). The course will examine, from a uniquely political perspective, issues of gender, sexuality, race, class and ethnicity in several different genres; drawing its examples from film and other text (e.g. television).

POLI 2111
Understanding Modern Europe

3 units - semester 1

3 contact hours per week

Available for Non-Award Study

Prerequisite: 12 units Level I Humanities/Social Sciences

Incompatible: POLI 2005/3005

Assessment: 3,000 word major essay 50%, essay research exercise (abstract & annotated bibliography) 20%, multiple choice & short answer test 20%, tutorial participation 10%

This course explores the origins and circumstances of modern Europe. It concentrates on the principal political, social and economic forces that have shaped modern Europe and traces the patterns of post-World War II recovery and development through to the emergence of the European Union as the dominant political force. The course covers a range of national and European-wide topics and locates them in the broader historical and political context. To do this the course examines and explains the social patterns of modern Europe together with the roles of the key institutions of Europe, the European nations and the European Union.

POLI 2112
South Australian Parliamentary Internship

6 units - semester 2

3 contact hours per week

Quota will apply

Prerequisite: 36 units from any Faculty including 12 units at Advanced level

Incompatible: POLI 3083

Assessment: 2,000 word essay 20%, 7,000 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.

POLI 2113
Governing Greater China

3 units - semester 2

3 contact hours per week

Available for Non-Award Study

Prerequisite: 12 units Level I Humanities/Social Sciences

Assessment: research project 2,400 words 40%, mid-term essay 1,200 words 20%, class test 20%, tutorial presentation 10%, tutorial participation 10%.

The course will adopt the comparative politics approach to the study of territories believed to constitute so-called Greater China: the People's Republic of China, Taiwan and Hong Kong. The course will take a thematic approach, examining the concept of Greater China, the political and economic rise of Greater China, inter-relationships among its constituting parts, competing models of political and socio-economic development in the Chinese world and the wider implications of emergence of the Greater China power in Asian and global politics and economy.

The course is divided into three parts: Part 1 examines the formation of Greater China from a historical perspective, paying particular attention to the issues of fragmentation and unification forces within China. Part 2 considers political and military institutions of Greater China in a comparative perspective. Part 3 analyses key linkages among areas believed to form Greater China, with an emphasis placed on economic inter-relationships. The course ends up with a discussion of the international repercussions of the rising economic and political clout of Greater China.

POLI 2118
Comparative Politics of Leadership

3 units - semester 1

3 contact hours a week

Available for Non-Award Study

Prerequisite: 12 units at Level I in Humanities/Social Sciences

Incompatible: POLI 2002

Assessment: 40% exercises, closed-book test & participation (20% exercises, 10% multiple-choice test, 10% participation), 1,500 word short paper 20%, 2,500 word major essay 40%

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?

CAPSTONE

POLI 3100
Contemporary Analysis of Politics

3 units - semester 2 (Not offered until 2010)

3 contact hours per week

Available for Non-Award Study

Prerequisite: 15 units in Politics with no more than 6 units at Level I

Assessment: participation 20% (10% tutorial participation, 5% tutorial workbook, 5% lecture-based activities or review paper), 1,500 word short paper 30%, 3,000 word major paper 50%

This course will provide a finishing point for all students undertaking a major in Politics. Students will consider the discipline of Political Science and theoretical frames within it. A range of particular theoretical topics will also be covered. These may include democracy, global/international questions, cultural politics, questions of identity and citizenship and contemporary public policy issues. Lastly, students will analyse a broad range of methodological techniques.

HONOURS

POLI 4401A/B
Honours Politics

24 units - full year

Prerequisite: UG degree, credit average of at least 70% in courses contributing to major in Politics or equivalent, 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 Advanced Level courses 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/IB

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 2200
Emotion Culture & Medicine II

3 units - semester 2

2 hour seminar, 1 hour tutorial per week

Restriction: MBBS, Psychology and Health Sciences students

Assumed Knowledge: PSYCHIAT 1001

Incompatible: ECM in any previous year

Assessment: 2 x 2,000 word essays, a reflective portfolio and tutorial attendance

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.

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

3 lectures/week, 1 tutorial/practical most weeks

Check with School for Non-Award Study

Incompatible: 5104, PSYCHOL 1000A/B

Assessment: Assignments, practical exercise 40%, research participation 10%, 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 40%, research participation 10%, 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.

PSYCHOL 1002
Exploring Psychology A

3 units - semester 1

3 lectures per week

Restriction: PSYCHOL 1000A/B, PSYCHOL 1000

Available for Non-Award Study

Incompatible: B.Psych.Sc./ B.Psych.(Hons) students

This course does not lead to level II Psychology - It is available to students choosing Level I Psychology as an elective and who do not wish to continue with Psychology at Level II

This course, together with PSYCHOL 1003 Exploring Psychology B, 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. Practical work will address the conventions of psychological report-writing and the ethical principles underlying psychological research and practice. This course does not lead on to Level II Psychology courses.

PSYCHOL 1003
Exploring Psychology B

3 units - semester 2

3 lectures per week

Restriction: PSYCHOL 1000A/B, PSYCHOL 1001

Available for Non-Award Study

Incompatible: B.Psych.Sc./ B.Psych.(Hons) students

This course does not lead to level II Psychology - It is available to students choosing Level I Psychology as an elective and who do not wish to continue with Psychology at Level II

This course, together with PSYCHOL 1002 Exploring Psychology A, 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. Practical work will address the conventions of psychological report-writing and the ethical principles underlying psychological research and practice. This course does not lead on to Level II Psychology courses.

LEVEL II

PSYCHOL 2004
Doing Research in Psychology

3 units - semester 1

2 lectures per week; 6 tutorials per semester; practical work and research participation

Restriction: PSYCHOL 2001

Prerequisite: PSYCHOL 1000, PSYCHOL 1001 or equivalent

Assessment: Written exam 50%, online exercises and written pracrical report 45%, research participation 5%

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 interpretative to the experimental, and to appropriate procedures for analysing and drawing conclusions from the data such methods produce.

PSYCHOL 2005
Foundations Health & Lifespan Development

3 units - semester 2

2 lectures per week; 6 tutorials per semester and 6 self directed learning exercises per semester

Restriction: PSYCHOL 2000A/B, PSYCHOL 2002 or PSYCHOL 2003

Prerequisite: PSYCHOL 1000, PSYCHOL 1001 or equivalent

Assessment: Written exam 50%, online exercises and written assignments 50%

This course builds on the components of mental health and developmental psychology introduced in Psychology IA and IB. The course work covers two broad thematic areas. The first aims to build a solid foundation in understanding of development across the lifespan by considering select topics in development during childhood, adulthood and old age including coverage of developmental disability. The second provides an introduction to evidence-based psychological assessment, treatment and prevention for mental health behaviours as well as coverage of select topics in biological bases of health and behaviour. The course draws on the biopsychosocial (mind - body) perspective that recognises that health and other behaviours are determined by the interaction of biological mechanisms, psychological processes and social influences.

PSYCHOL 2006
Foundations of Perception & Cognition

3 units - semester 1

2 lectures per week, 6 tutorials per semester and 6 self directed learning exercises per semester

Restriction: PSYCHOL 2000A/B, PSYCHOL 2002 Por PSYCHOL 2003

Prerequisite: PSYCHOL 1000, PSYCHOL 1001 or equivalent

Assessment: Written exam 50%, online exercises and written assignments 50%

This course builds on the course components of the biological bases of behaviour, perception, and cognition studied in Psychology IA and Psychology IB. The aim of this course is to build a solid foundation in both perception and cognition. Students will examine how the brain processes sensory information to create a coherent representation of the environment and 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. Building upon this basis, students will examine topics in cognition such as attention, memory, concept learning, categorisation, judgement and decision making, and language. The focus will be upon understanding basic principles and theories as well as their potential application to real world problems such as eyewitness testimony, autobiographical memory, language development, reading and problem solving.

PSYCHOL 2007
Psychology in Society

3 units - semester 2

2 lectures per week, 6 tutorials per semester and 6 self directed learning exercises per semester

Restriction: PSYCHOL 2000A/B, PSYCHOL 2002 or PSYCHOL 2003

Prerequisite: PSYCHOL 1000, PSYCHOL 1001 or equivalent

Assessment: Written exam 50%, online exercises and written assignments 50%

This course seeks to build upon Level I Psychology, specifically areas relating to social, cross-cultural and organisational psychology. Social psychology lectures will include topics central to contemporary research in social cognition drawing specifically on experimental research on explicit and implicit processes in social perception. It will consider the social and psychological functions of stereotyping and the extent to which this psychological process can be brought under intentional control. Cultural psychology lectures will examine the ways in which the culture we are born into exerts a powerful influence on all aspects of our lives and how psychological knowledge itself can be shaped by cultural assumptions and values. Particular emphasis will be placed on indigenous issues in psychology and the importance of understanding these in the context of clinical and applied work with indigenous people. Organisational psychology will provide students with an understanding of how psychology can be used to enhance selection, recruitment and performance assessment in organisations, the impact on work performance of organisational culture, and the role of the organisational psychologist.

LEVEL III

PSYCHOL 3020
Doing Research in Psychology: Advanced

3 units - semester 2

1 lecture per week; 6 tutorials per semester; practical work

Restriction: PSYCHOL 3000I

Prerequisite: Psychological Research Methods II, Psychology IIA and Psychology IIB or Doing Research in Psychology, Foundations of Health & Lifespan, Foundations in Perception & Cognition, Psychology in Society

Assessment: Written exam 50%, online exercises and written practical report 50%

The course will introduce a range of methods and issues in psychological enquiry that are more complex than those taught at Level II. A wide range of issues relating to research design will be covered, including ethical considerations in psychological research. Consideration will also be given to the inferences that have been made by researchers using particular research designs in specific areas of psychological interest.

PSYCHOL 3021
Health & Lifespan Development Psychology

3 units - semester 2

1 lecture per week; 6 tutorials per semester; practical work

Restriction: PSYCHOL 3003I, PSYCHOL 3017

Prerequisite: Psychological Research Methods II, Psychology IIA and Psychology IIB or Doing Research in Psychology, Foundations of Health & Lifespan, Foundations in Perception & Cognition, Psychology in Society

Assessment: Written exam 50%, online exercises, written report 50%

This course builds on the material of the foundation course. The underpinning theme is: the psychological, behavioural and social origins of development, illness, well-being and health enhancing behaviours. Lectures will focus on advanced topics in child development, mental health and physical health, and will include developing skills in critical evaluation and knowledge applications.

PSYCHOL 3022
Individual Differences, Personality & Assessment

3 units - semester 1

1 lecture per week; 6 tutorials per semester; practical work

Restriction: PSYCHOL 3014 I

Prerequisite: Psychological Research Methods II, Psychology IIA and Psychology IIB or Doing Research in Psychology, Foundations of Health & Lifespan, Foundations in Perception & Cognition, Psychology in Society

Assessment: Written exam 50%, online exercises and written practical report 50%

This course addresses the field of Differential Psychology, which is concerned with understanding how and why people differ, despite broad similarities shared by all human kind. It reviews major theories, research methods and findings and how these translate into practices in the fields of intelligence and personality, including assessment. The curriculum builds on knowledge introduced in first and second years.

PSYCHOL 3023
Perception & Cognition

3 units - semester 2

1 lecture per week; 6 tutorials per semester; 6 self-directed learning sessions per semester

Restriction: PSYCHOL 3018, Psychol 3019

Prerequisite: Psychological Research Methods II, Psychology IIA and Psychology IIB or Doing Research in Psychology, Foundations of Health & Lifespan, Foundations in Perception & Cognition, Psychology in Society

Assessment: Written exam 50%, online exercises, written report 50%

Perception and Cognition builds upon PSYCHOL 2006 Foundations of Perception and Cognition. Lectures will focus on advanced topics in visual perception, such as depth perception, object recognition, face perception, and the relationship between vision and action, as well as on theories of cognition covering short and long term memory, learning, categorisation, language and applied decision making. Tutorials and self-directed learning sessions will introduce students to methods and skills such as signal detection theory, principles of cognitive modelling, and elementary programming.

PSYCHOL 3024
Psychology in Society: Advanced

3 units - semester 1

1 lecture per week; 6 tutorials per semester; 6 self-directed learning sessions per semester

Restriction: PSYCHOL 3010, PSYCHOL 3013

Prerequisite: Psychological Research Methods II, Psychology IIA and Psychology IIB or Doing Research in Psychology, Foundations of Health & Lifespan, Foundations in Perception & Cognition, Psychology in Society

Assessment: Written Exam 50%, online exercises, written report 50%

This course is divided into two principal sections, both of which relate to the theoretical development and practical application of psychological principles to human behaviour. The first part of the course builds on material presented in earlier years on social psychology. Three specific theoretical approaches will be considered: social identity theory and its more recent theoretical derivative self-categorisation theory (Tajfel and Turner), social representations theory (Moscovici) and discursive psychology (Edwards, Potter and Wetherell). These approaches will be applied to understanding central topics in social psychology such as social categorisation, stereotyping, prejudice and identity. Implications for understanding social issues such as the nature of intergroup relations in society will be considered. The second part of the course builds upon material presented in the Psychology 1 course on the psychology of learning, and should be of considerable value to those considering further experimental or applied work. There will be a brief review of the fundamental principles and theories in the field of learning and behaviourism as exemplified in the work of Pavlov, Skinner, Rescorla, Seligman, Premack, Timberlake and others. The implications of these findings for clinical psychology, economics, health-related interventions, and the treatment of addictions will be considered using numerous research examples. The course will also examine the role of cognitive factors in modern learning theory such as the theory of learned-helplessness, the illusion of control literature, consumer and economic behaviour, and research using measures of control motivation.

PSYCHOL 3025
Psychology, Ideas & Action

3 units - semester 1

1 lecture per week; 6 tutorials per semester; 6 self-directed learning sessions per semester

Restriction: Psychol 3009, PSYCHOL 3015

Prerequisite: Psychological Research Methods II, Psychology IIA and Psychology IIB or Doing Research in Psychology, Foundations of Health & Lifespan, Foundations in Perception & Cognition, Psychology in Society

Assessment: Written exam 50%, online exercises, written report 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 examine Psychology's relationship to science, in part by consideration of recent developments in related disciplines such as the history and philosophy of science, and the sociology of scientific knowledge. The course is also concerned with examining the ways in which Psychology functions in society - what psychologists do, who employs them, and how psychological theories are put to use in a variety of social institutions such as government, education, health and the law.

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 seeks answers to such questions by drawing on a number of disciplines, including history, politics, ethics, sociology, epidemiology and biostatistics. It takes a population view of health and invites students to develop a critical view about what constitutes a public health issue and about the responses offered to these issues.

PUB HLTH 1002
Public Health IB

3 units - semester 2

4 hours per week

Available for Non-Award Study

Assumed Knowledge: concepts of health & disease, principles of public health, health status of Australians, descriptive epidemiology & basic biostatistics, public health applied to infectious & chronic disease, role of government in public health in Australia

Assessment: Exam, assignments, including media journal, tutorial & practical participation

What strategies for reducing smoking and encouraging exercise are likely to be successful? How important are controls over food safety, water quality and waste disposal? How do ecological issues impact on public health? What political issues are involved in allocating resources for health or maintaining a healthy environment? How is population control a public health issue? What is Australia's approach to the health impact of an ageing population? What are the health needs of indigenous Australians? How does the 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 2100
Public Health Sciences II

3 units - semester 1

4 hours

Restriction: B.HIth.Sc, B. Develop St. & B.Psych.(Hons) students

Prerequisite: PUB HLTH 1001, PUB HLTH 1002 Public Health 1B

Assumed Knowledge: Public Health 1A & 1B - under some circumstances, students who have not taken Public Health IA/IB may be able to enrol, but must discuss with course coordinator prior to enrolment

Assessment: Exam, assignments, tutorial practical & site visit participation

The overall aim of this course is to equip students with an appreciation of three scientific disciplines that underpin a substantial part of the practice of public health: Biostatistics, Epidemiology, and Occupational and Environmental health science.

PUB HLTH 2200
Public Hlth Inquiry II

3 units - semester 2

4 hours

Restriction: B.HIth.Sc, B. Develop St. & B.Psych.(Hons) students

Prerequisite: PUB HLTH 1001, PUB HLTH 1002

Assumed Knowledge: Public Health 1A & 1B - under some circumstances, students who have not taken Public Health IA/IB may be able to enrol, but must discuss with course coordinator prior to enrolment

Assessment: two written assignments 20% each, group presentation 20%, exam 40%

This course will provide a detailed background to the major streams of inquiry in public health - in particular, epidemiology and social political analysis - and their application to the resolution of contemporary problems in public health.

LEVEL III

PUB HLTH 3117HO
Rural Public Health IIIHS

6 units - winter semester

1 week intensive course in Whyalla

Restriction: B.HIth.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 3119
Public Health Internship III

6 units - semester 2

3 hour seminar and workplace experience

Restriction: B.Hlth.Sc, & B.Psych.(Hons) students only

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 3122
International Health III

3 units - semester 1

35 hours, intensive mode

Restriction: Open to all BHlthSc, MBBS & BDevSt students in yr 3

Assessment: Combination of essay, group presentation, written exam

This course introduces 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 and transition countries. The course is designed to provide learning for working with communities and organisations that are responsible for funding and/or providing health care and health promotion in developing and transition countries. The course provides an overview of health systems and public policy issues in low and middle-income countries, and covers concepts such as health transition during development, globalization and health, financing and organisation, as well as the role of the private sector, Non Government Organisations and international organisations.

Issues such as inequities in health financing and delivery are discussed as well. With the help of case studies, the course provides an understanding about the delivery of health care, public health and health promotion in disadvantaged communities. The lectures and case studies discussion highlights the role of communities, clients, community based organisations, public and private sector providers, and funding agencies. Factors facilitating access, quality, cost and fairness of services and programs will be discussed.

PUB HLTH 3500EX
Rural Public Health III

3 units - winter semester (Not offered until 2010)

1 week intensive, seminars, workshops and site visits, based in Whyalla

Available for Non-Award Study

Prerequisite: Previous/concurrent study pf public health, clinical medicine or social and economical development

Assumed Knowledge: Basic concepts and principles of Public Health, including: determinants of health, health differentials and basic research skills

Assessment: Based in Whyalla & attendance required at all sessions - mixture of review paper, minor paper, group project & major paper

The Rural Public Health course aims to: Develop understanding of the influence of rurality and remoteness on the health of rural Australia; Increase knowledge and understanding of policy directions in rural health and models of rural and remote health service delivery; Increase skills and knowledge in developing public health strategies to reduce the severity of health risks for rural and remote Australians; Gain skills that are relevant to employment in the health system.

PUB HLTH 3501
Epidemiology in Action III

3 units - semester 2 (Not offered until 2010)

Restriction: Open to all students with appropriate prerequisites

Prerequisite: Successful completion of PUB HLTH 2000 and PUB HLTH 2001

Assessment: Written assignments, group project and exam

This course focuses on mastery of the epidemiological concepts and measures that are routinely used in public health practice. It demonstrates the essential role of epidemiology in monitoring the health of populations and responding pro-actively to public health problems. The strengths and limitations of epidemiology in this context will also be considered. The course will extend students' ability to access and interpret the epidemiological information contained in reports regularly produced by organisations such as the World Health Organisation, NHMRC and the Australian Institute of Health and Welfare. In addition, skills in reading and understanding systematic literature reviews will be introduced, as these reviews are an increasingly important source of evidence for health-related initiatives, and such skills are highly valued in public health workplaces. This learning will occur through considering a series of topics, such as population management of infectious diseases, health inequalities, population screening, reproductive health, and the assessment of health interventions.

PUB HLTH 3502
Epidemiology & Biostatistics III

3 units - semester 1 or 2 (Not offered until 2010)

Restriction: Open to all students with appropriate prerequisites

Prerequisite: Successful completion of PUB HLTH 2000 and PUB HLTH 2001

Assessment: Written assignments and exam

Syllabus details to be advised.

PUB HLTH 3503
Public Health Theory and Practice III

3 units - semester 1 (Not offered until 2010)

Restriction: Open to all students with appropriate prerequisites

Prerequisite: Successful completion of PUBH HLTH 2000 and PUB HLTH 2001

Assessment: Combination of review paper, minor essay, group project and major essay

This course aims to help students to analyse health policies and health systems and to transmit their findings in preparation for a career in public health or a related field. The course invites students to reflect more deeply on current assumptions and practices in public health, while also providing an opportunity for them to further develop practical skills in asking relevant questions, interpreting information, writing reports and transmitting knowledge. There is a focus on the broad context in which health policy is formed and implemented and the value assumptions implicit. The course is delivered in modules built around selected public health priorities which may vary from year to year, but may include the structure and function of the Australian health system, the improvement of Indigenous health and/or the promotion of health weight.

PUB HLTH 3504
Protecting and Promoting Health III

3 units - semester 1 (Not offered until 2010)

Restriction: Open to all students with appropriate prerequisites

Prerequisite: Successful completion of PUB HLTH 2000 and PUB HLTH 2001

Assessment: Combination of review paper, summary, group project and major essay

This course is designed to provide students with an in-depth understanding of the concepts of protecting and promoting health at individual, group, community and national levels. It begins with a critical review of the determinants of health and health inequalities in Australian and international contexts.

The principles of health promotion and protection, and practical methodologies such as health impact assessment, are then introduced.

Examples of the application of these principles and methods are considered in various contexts, such as workplace health promotion, environmental health protection and community development. The concepts will be illustrated across a range of government sectors, including transportation, housing, agriculture, water supply and waste management.

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 4100AHO/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 hour lecture, 3 hour practical 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 2500/2500WT
Soil and Water Resources II

3 units - semester 1

2 hour lecture, 4 hour practicals per week

Assumed Knowledge: SOIL&WAT 1000RW or GEOLOGY 1200 or GEOLOGY 1103

Assessment: Practicals, quizzes, essay, theory exam

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 include: soil water retention, storage and movement, salinity, chemical fertility, the role of biology in soil processes, soil conservation and management, water quality factors and the impact of land management on these factors.

SOIL&WAT 2501
Spatial Information and Land Evaluation II

3 units - semester 1

2 hour lecture, 3 hour practical per week, 1 day field excursion

Available for Non-Award Study

Assessment: Practical reports, theory exam

Spatial information is fundamental to decision making in all environmental disciplines. It is widely used in natural sciences areas from agriculture, environmental management to mining industries. The breadth of applications of spatial information is increasing rapidly due to a vastly improved availability of spatial data and the recently accelerated development of geographic information systems and remote sensing tools. The subject introduces theory, history and current methods of spatial information presentation, generation, and analysis. It gives an overview of major Australian and South Australian mapping programs and spatial information in government agencies. Students are introduced to factors that shape the landscape and learn how to interpret land surface features. In field exercises (locally around Nt and Para Wirra Recreation Park) students are introduced to surveying, the use of Global Positioning Systems, field navigation and safety.

LEVEL III

SOIL&WAT 3002WT
Soil Management and Conservation III

3 units - semester 1

2 hour lecture, 4 hour practical per week

Prerequisite: SOIL&WAT 2500WT 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 III

3 units - summer semester

24 hours lectures, 4 x 4 hour practical sessions, 2 x 1 day field trips during the summer vacation

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

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 III

3 units - semester 1 or 2

10 hours practical work per week (or equiv.) on projects

Prerequisite: at least 55% in each of 2 level III courses offered by Discipline or equivalents acceptable to Head of Discipline

Corequisite: 2 level III courses offered by Discipline other than those serving as prerequisites, or equivalents acceptable to Head

Assessment: Oral exam, seminar, written project report

The course consists of a small research project of the student's choosing on a topic acceptable to the Discipline of Soil and Land Systems. It will be undertaken during the 3rd year of the program.

SOIL&WAT 3007WT
GIS for Environmental Management III

3 units - summer semester

15 days during the summer vacation

Available for Non-Award Study

Incompatible: SOIL&WAT 3014WT

Assessment: Practical exercises, case study, written exam

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 form point and vector data; applications and case studies. Practical work uses PC-based software to teach basic skills in GIS data entry, analysis and output, emphasising a problem-solving approach through environmental and agricultural GIS case studies.

SOIL&WAT 3010
Remote Sensing III

3 units - semester 2

2 hour lecture, 3 hour practical per week

Prerequisite: 16 units of Level II science courses or equiv

Incompatible: GEOLOGY 3008 and SOIL&WAT 3008

Assessment: Exam, practical exercises

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 III

3 units - winter semester

10 days during the mid year break

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 III

3 units - semester 2

24 hours lectures, 48 hours practical work during mid semester break

Available for Non-Award Study

Incompatible: SOIL&WAT 3007WT and 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 III

3 units - semester 1

2 hour lecture, 4 hour practical per 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 (BNRMgt)

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, weighted average of non-research component

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

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

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, weighted average of non-research component

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

A 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

SOIL&WAT 4002AWT/BWT Honours Soil & Land Systems (B.Ag.)

24 units - full year

Prerequisite: Credit or higher standard in a least 2 Level III courses approved by Head of Discipline

Assessment: Research proposal, seminars, research paper, viva voce, weighted average of non-research component

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

A 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.

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, average of 4 specified Level III courses

Viticultural Science begins classes on Monday of O-Week - attendance at these classes is required to be able to complete course

A 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

Intending candidates should consult the Head of Discipline, Honours Coordinator and potential supervisors during the third year and be prepared to begin studies at the beginning of February or July..

SOIL&WAT 4005AWT/BWT Honours Soil Science (B.Sc.)

24 units - full year

Prerequisite: Credit or higher standard in a least 2 Level III courses approved by Head of Discipline

Assessment: Research proposal, seminars, research paper, viva voce, weighted average of non-research component

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

A 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.

SOIL&WAT 4007AWT/BWT Honours Soil Science (B.Ag)

24 units - full year

Prerequisite: Credit or higher standard in a least 2 Level III courses approved by Head of Discipline

Assessment: Research proposal, seminars, research paper, viva voce, weighted average of non-research component

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

A 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.

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, average of four level III courses referred to above

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

A 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.

Spanish

LEVEL I

SPAN 1003
Spanish IA

3 units - semester 1

4 hours per week

Available for Non-Award Study

Assumed Knowledge: No previous language experience required

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

4 hours per week

Available for Non-Award Study

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.

LEVEL II

SPAN 2101
Spanish IIA (Intermediate)

3 units - semester 1

4 contact hours per week

Prerequisite: SPAN 1004

Assumed Knowledge: Basic knowledge of the Spanish language (speaking, reading, writing)

Incompatible: Students who have taken and passed an Intermediate level Spanish course at other universities are not permitted to enrol

Assessment: Weekly homework 25%, mid-term exam 30%, final exam 45%

This course builds on the skills that students mastered in the introductory Spanish courses (SPAN 1003 and SPAN 1004). The emphasis of this course will be on the further development of the four basic language skills: speaking, listening, reading and writing. Different from early courses, in this course the teaching staff will tackle some of the finer points of the Spanish grammar and will emphasise writing practices at academic level. Lectures and tutorials will be conducted in Spanish and students will be expected to actively contribute to discussions and exercises in the Spanish language.

Approximately 20% of teaching time will be dedicated to the introduction and discussion of specific aspects of the cultures of the Hispanic World, through different types of media including music recordings, video clips, movies and short stories produced both in Spain and Latin America.

SPAN 2102
Spanish IIB (Intermediate)

3 units - semester 2

4 contact hours per week

Prerequisite: SPAN 2101 Intermediate Spanish I

Assumed Knowledge: Basic knowledge of the Spanish language (emphasis on writing skills)

Assessment: Weekly homework 25%, mid-term exam (30%, final exam 45%

This course builds on the skills that students mastered in the Intermediate Spanish I course. The main emphasis of this course will continue to be on the development of the four basic language skills: speaking, listening, reading and writing. The most complicated aspects of the Spanish language will be emphasised, including the use of the subjunctive mood, and direct and indirect object pronouns. Reading cultural and literary material and writing reports on those readings will be the main activity in this course. Lectures and tutorials will be conducted in Spanish and students will be expected to actively contribute to discussions and oral exercises in the Spanish language.

Approximately 20% of teaching time will be dedicated to the introduction and discussion of specific aspects of the cultures of the Hispanic World, through different types of media including music recordings, video clips, movies and short stories produced both in Spain and Latin America.

SPAN 2112
Introduction to the Culture of Spain

3 units - semester 2

3 contact hours per week

Prerequisite: SPAN 1004

Assumed Knowledge: Basic knowledge of the Spanish language

Assessment: Mid-term exam 30%, research presentation 30%, final exam 40%

This course is a general introduction to the conformation of the Spanish culture from the time of the Roman invasion onwards. It is aimed at students with little or no knowledge of the Iberian Peninsula. The main periods in Spanish cultural history to be emphasised are: Muslim Spain (708-1492); the reigns of the Catholic Kings and Carlos V; the Spanish Golden Age; 19th Century Spanish society and culture; the Spanish Civil War (1936-1939); and democratic Spain (from 1975 onwards). Spanish culture will be studied and discussed from a variety of topics and perspectives, the most relevant being race relations, the role of the Catholic Church in the shaping of Spanish society and culture, militarism, literature as reflection of social reality, nationalism, and contemporary cinema.

Lectures for this course will be conducted in English and tutorials in Spanish. Reading and screening material will be mostly in Spanish.

Veterinary Science

LEVEL II

VET SC 2500RW
Veterinary Skills II

3 units - semester 2

3 hour lecture, 1 hour tutorial, 3 hour practical per week

Restriction: BSc (Animal Science: Pre-Vet)

Prerequisite: ANIML SC 1017RW and ANIML SC 1018RW

Assessment: Written exam, practical exam, oral presentation, group work, formative tests.

The course will discuss the history of the veterinary profession in Australia and around the world, and the responsibilities of the veterinarian in society. It will also include the graduate attributes needed for veterinary students; legislation relating to veterinary science; data management and professional ethics. Students will learn communication skills relevant to their future work, including taking case histories and dealing with difficult client relationships.

In practical classes students will practice how to perform a clinical examination, participate in role plays relating to animal euthanasia, and take part in group work presenting various veterinary case scenarios highlighting specific areas covered in lectures e.g. professional ethics.

VET SC 2510RW
Animal Form & Function IIA

6 units - semester 1

2 x 3 hour lectures, 2 x 1 hour tutorials, 2 x 3 hour practicals per week

Restriction: BSc (Animal Science: Pre-Vet)

Prerequisite: BIOLOGY 1510, BIOLOGY 1520 and PHYSICS 1501 or PHYSICS 1508

Assessment: Written exam, practical exam, oral presentation, group work, formative tests

The course will introduce anatomic and physiological terminology, principles and comparative aspects amongst species. The course will provide concepts of structure and function of the various body systems and highlight species variations. In practical classes students will develop practical skills in dissection and learn to appreciate variations in structure due to age, sex, species and physiological status.

VET SC 2520RW
Animal Form & Function IIB

6 units - semester 2

2 x 3 hour lectures, 2 x 1 hour tutorials, 2 x 3 hour practicals per week

Restriction: BSc (Animal Science: Pre-Vet)

Prerequisite: BIOLOGY 1510, BIOLOGY 1520, PHYSICS 1501 or PHYSICS 1508 and VET SC 2510RW

Assessment: Written exam, practical exam, oral presentation, group work, formative tests

The course will introduce anatomic and physiological terminology, principles and comparative aspects amongst species. The course is a continuation of animal form and function IIB and is complementary to it. It will provide concepts of structure and function of the various body systems (not already covered in IIA) and will highlight species variations. In practical classes students will develop practical skills in dissection and learn to appreciate variations in structure due to age, sex, species and physiological status.

Viticulture

LEVEL II

VITICULT 2500WT
Viticultural Science II

3 units - semester 2

5 full days in Orientation week, 2 hour lecture, 4 hour practical per week

Restriction: BSc (Viticulture), B Oenology

Assumed Knowledge: OENOLOGY 1018NW, BIOLOGY 11011 & 202

Assessment: Exams and assigments

Viticultural Science covers the entire life cycle of the cultivated grapevine with an emphasis from bud burst through to the onset of veraison. The practical component of the course takes advantage of the vine growth phases that occur from bud burst, 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, and berry development. Grapevine anatomy of the vegetative and reproductive parts. Taxonomy of grapevines and vegetative variety identification. Practical sessions will focus in more depth on the following topics: pruning techniques, vine and bud anatomy, shoot based variety identification, shoot morphology and development, yield estimation, and mineral nutrition.

LEVEL III

VITICULT 3005WT
Grape Industry Practice Policy & Communication III

2 units - semester 1

4 hour lecture, 3 hour practical per week for half semester

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 3021WT
Viticultural Production III

3 units - semester 2

2 x 2 hour lectures per week

Restriction: BSc (Viticulture) and B Oenology

Prerequisite: VITICULT 2500WT or VITICULT 2002WT

Incompatible: VITICULT 3004W, VITICULT 3018WT, VITICULT 3017WT and 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) III

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 III

3 units - semester 2

1 hour lecture, 1 hour tutorial, 4 hour practical per week

Restriction: BSc (Viticulture)

Assumed Knowledge: VITICULT 2002WT

Incompatible: VITICULT 3004 and 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 tot he individual student's honours program.

Wine Marketing

LEVEL I

WINEMKTG 1003EX
Legal Issues in Wine Marketing I

3 units - semester 2

External

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 I

3 units - semester 1 or 2

External

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/WT
Wine and Food Marketing Principles I

3 units - semester 1

Internal: 2 hour lecture, 1 hour tutorial per week; also external

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 I

3 units - semester 1

External

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 I

3 units - semester 1

External

Assessment: 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: Wine & Food Business I

3 units - semester 2

External

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 2500WT
Applied Management Science II

3 units - semester 1

2 hour lecture, 2 hour practical per week

Assumed Knowledge: WINEMKTG 1013WT or WINEMKTG 1013EX and ECON 1008 or WINEMKTG 1015EX

Assessment: Exam, practical, case studies, assignments

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.

WINEMKTG 2501EX/WT
Applied Marketing Research II

3 units - semester 2

Internal: 2 hour lecture,1 hour tutorial per week; also external

Prerequisite: WINEMKTG 1013WT or WINEMKTG 1013EX

Assumed Knowledge: ECON 1008 or WINEMKTG 1015EX

Assessment: Assignments, exam

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 2502EX
Consumer Behavioural Analysis II

3 units - semester 1

External

Assumed Knowledge: WINEMKTG 1013WT or WINEMKTG 1013EX

Assessment: Assignments, exam

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 2503EX/WT
International Marketing of Wine & Agri Products II

3 units - semester 2

Internal: 2 hour lecture, 1 hour tutorial per week; also external

Assumed Knowledge: WINEMKTG 1013WT or WINEMKTG 1013EX

Assessment: Assignments, exam

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 2504EX/WT
International Wine Law II

3 units - semester 1

Internal: 2 hour lecturek, 1 hour tutorial per week; also external

Assumed Knowledge: WINEMKTG 1003EX or COMMLAW 1004

Assessment: Assignments, Research Essay

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 2505EX
Strategic Marketing Management II

3 units - semester 2

Internal: 3 Hours per week; also external

Prerequisite: WINEMKTG 1013WT or WINEMKTG 1013EX

Assessment: Assignments, Exam

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 2506EX/WT
Wine and Society II

3 units - semester 1

Internal: 2 hour lecture, 1 hour tutorial per week; also external

Assumed Knowledge: WINEMKTG 1013WT or WINEMKTG 1013EX

Assessment: Assignments, Exam

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.

LEVEL III

WINEMKTG 3006EX/WT
Global Wine Market III

4 units - semester 1

Internal: 2 hour lecture, 1 hour tutorial per week; also external

Restriction: B. Wine Marketing students only

Prerequisite: WINEMKTG 1013WT/1013EX

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/WT
Food Marketing III

4 units - semester 1

Internal: 2 hour lecturek, 1 hour tutorial per week; also external

Assumed Knowledge: WINEMKTG 1013WT/1013EX

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/WT
Winery Business Management III

4 units - semester 2

Internal: Up to 3 hours per week (including lectures, tutorials); also external

Restriction: B. Wine Marketing students only

Prerequisite: WINEMKTG 1008EX and WINEMKTG 1013WT/1013EX or equivalent

Assessment: Assignments and 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 3040EX
Wine Retail and Distribution Management III

4 units - semester 2

Internal: Up to 3 hours per week (including lectures, tutorials); also external

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/WT
Internet Marketing and E-Commerce III

4 units - semester 1

Internal: Up to 4 hours per week (including lectures, tutorials); also 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/WT
Wine & Food Tourism & Festivals III

4 units - semester 1

Internal: 2 hour Lecture per week, 1 hour tutorial per week also external

Assumed Knowledge: WINEMKTG 1013WT/1013EX

Assessment: To be advised

This course explores the basics of tourism and the structure of the tourism industry as it relates to both wine and food. It addresses the basics concepts of wine tourism and hospitality, wine and food festivals in the broad context of tourism and hospitality, and wine tourism as a vehicle to build a brand image for the wine(ry) business and/or wine region. Specific focus areas include wine tourism visitor (consumer) behaviour, the role of the winery cellar-door in wine marketing/distribution, the functions of wine routes/roads, wine region brand building, and wine and/or food festival event fundamentals and management.

WINEMKTG 3065EX/WT
Database Marketing for Food and Wine Business III

4 units - semester 2

Internal: Up to 4 hours per week (including lectures, tutorials); also external

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.

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